PLANNING AND COMMUNITY DEVELOPMENT

1010 10th Street, Suite 3400
Modesto, CA 95354

Referral
Early Consultation

Date: **November 6, 2026**

To: **Distribution List (See Attachment A)**

From: **Kristen Anaya, Senior Planner**
Planning and Community Development

Subject: **USE PERMIT AND WILLIAMSON ACT CANCELLATION APPLICATION NO. PLN2025-0007 – MID VALLEY POWER**

Respond By: **November 30, 2026**

******PLEASE REVIEW REFERRAL PROCESS POLICY******

The Stanislaus County Department of Planning and Community Development is soliciting comments from responsible agencies under the Early Consultation process to determine: a) whether or not the project is subject to CEQA and b) if specific conditions should be placed upon project approval.

Therefore, please contact this office by the response date if you have any comments pertaining to the proposal. Comments made identifying potential impacts should be as specific as possible and should be based on supporting data (e.g., traffic counts, expected pollutant levels, etc.). Your comments should emphasize potential impacts in areas which your agency has expertise and/or jurisdictional responsibilities.

These comments will assist our Department in preparing a staff report to present to the Planning Commission. Those reports will contain our recommendations for approval or denial. They will also contain recommended conditions to be required should the project be approved. Therefore, please list any conditions that you wish to have included for presentation to the Commission as well as any other comments you may have. Please return all comments and/or conditions as soon as possible or no later than the response date referenced above.

Thank you for your cooperation. Please call (209) 525-6330 if you have any questions.

Applicant: **Tyler Ott, Chief Executive Officer (CEO), Mid Valley Power**

Project Location: 3348, 3731, 3735, and 3739 Howard Road, between the Delta Mendota Canal and Interstate 5 (I-5), south of the Community of Westley.

APNs: 016-037-037, -038, and -039; 021-007-008 and -009; 021-013-001, -018, -020; and 021-015-021, -023, -024, -025, and -026

Williamson Act Contracts: 71-275; 72-690; 72-1020; 72-0690; 77-2907

General Plan: Agriculture

Community Plan: N/A

Current Zoning: General Agriculture (A-2-40)

Project Description: An Early Consultation for this project was initially referred out on August 25, 2025. The project has since been revised to incorporate new project parcels. This is a request to establish a photo-voltaic (PV) solar energy farm generating an aggregate peak power capacity of 130 megawatts (MW) of electricity across a 738.6± acre project site comprised of thirteen parcels located in the General Agriculture (A-2-40) zoning district. The project will also consist of a collector substation, up to 50-feet in height, within a 2-acre footprint, and battery energy storage system (BESS) with a 160-megawatt alternating current (MWac)/320 megawatt-hours (MWh) backup capacity for the electric grid, within a 4-acre footprint on Assessor Parcel Number (APN) 021-015-021. Solar panels, up to 12-feet tall, are proposed across the balance of the project parcels, with multiple inverters collocated across the project site.

The project site is bisected by Howard Road and the California Aqueduct. The project proposes the construction of one or two 34.5 kW underground high voltage collection lines in a single crossing location across Howard Road (County Route J16) to interconnect the PV systems located north of Howard Road. Two 100-foot-tall overhead collection lines are proposed to be installed at a single location across the California aqueduct tie-in the PV systems located on APNs 021-013-001 and 021-013-020 together, subject to approval and permitting by the Department of Water Resources.

The project site adjoins and proposes to tie the proposed project substation into the Turlock Irrigation District (TID) Westley substation, located on APN 021-015-020 and 021-015-022. Within this existing TID Westley 115kV substation, the existing Turlock Irrigation District Marshall Line will be relocated to a new position, thereby freeing the existing Marshall Line position located between breakers for the proposed project. If approved, construction is anticipated to occur immediately following building and grading permits having been obtained within 18 months of project approval.

The project will take access onto County-maintained Howard Road via an existing 24-foot-wide, gated driveway and Needham Road via Kern Creek Road (a private road). Two additional, gated entrances are proposed to be located along Howard Road. The applicant proposes a 20-foot-wide emergency vehicle access (EVA) perimeter road around each of the parcels within the project site, with three EVA routes proposed via the primary entrance to the project site, an entrance on Needham Road via Kern Creek Road (a private road), and via the access for the northern portion of the project site off Howard Road. Within the project site, interior access roads are proposed. Existing DWR and Caltrans drainage easements are currently located within the project site to manage storm water drainage produced by I-5 and storm water management around and through the California Aqueduct. Additionally, there is a small seasonal wetland that has been identified along the California Aqueduct on APN 021-007-009. These areas under easements will be avoided by site development.

The applicant proposes the following fencing and landscaping for the project: eight-foot-tall chain link fence with barbed wire around the perimeter of the 15± acre substation and battery storage compound; a seven-foot-tall chain link fence around the perimeter of the project site; and screening comprised of six-foot-tall chain link fencing with slats and 10-foot-wide landscape strip of drought tolerant evergreen trees and shrubs along the project site's frontages off Interstate 5 (I-5).

Two to three employees are expected to visit the site bi-monthly for two weeks at a time for routine maintenance and washing of the panels. Operation of the facility will be done remotely through control of inverters and on-site equipment through a cloud-based system. On-site wells are proposed to be used for washing the solar panels.

An existing modular home, agricultural structure, and small solar array on APN 021-013-001, and an existing mobile home and outdoor vehicle/equipment storage area on APN 016-037-039 are proposed to be demolished. The project site is also currently planted in almond, cherry and apricot trees, which will be removed for the proposed project. The project site currently receives surface water from Del Puerto Irrigation District via various surface water pumps and pipelines from the Delta-Mendota Canal. Surface water is proposed to be utilized for landscape irrigation. Ground water is supplied by agriculture water wells located across the project site located on APNs 021-015-021, 021-015-023, 021-013-001, 021-007-008, 016-037-038, and 016-037-039. An irrigation reservoir is located on APN 021-015-023.

Eight of thirteen project parcels, totaling 544.83± acres, are enrolled under active Williamson Act Contracts; however, because this request is for a Tier 3 Use Permit which prohibits the project site from being enrolled in a contract, a Williamson Act Cancellation for the 544.83± acres is included as part of this request. A Williamson Act Notice of Non-Renewal will be recorded for the proposed project prior to circulation of an Initial Study.

The following technical documents have been prepared by the applicant and submitted with the application, and are included as attachments to this referral:

A. **Biological Resources Assessment**
B. **Focused Survey for San Joaquin Kit Fox**
C. **Cultural Resource Survey**
D. **Glint and Glare Assessment**
E. **Visual Impact Assessment**
F. **Energy Technical Memorandum**
G. **Phase 1 Environmental Site Assessment**
H. **Transportation Memo**
I. **Air Quality and Greenhouse Gas Analysis**

Full document with attachments available for viewing at:
http://www.stancounty.com/planning/pl/act-projects.shtm

USE PERMIT AND WILLIAMSON ACT CANCELLATION APPLICATION NO. PLN2025-0007 – MID VALLEY POWER
Attachment A

Distribution List

X	CA DEPT OF CONSERVATION Land Resources	X	STAN CO ALUC
X	CA DEPT OF FISH & WILDLIFE	X	STAN CO BUILDING PERMITS DIVISION
X	CA DEPT OF FORESTRY (CAL FIRE)	X	STAN CO CEO
X	CA DEPT OF TRANSPORTATION DIST 10	X	STAN CO DER
X	CA OPR STATE CLEARINGHOUSE	X	STAN CO FARM BUREAU
X	CA RWQCB CENTRAL VALLEY REGION	X	STAN CO DER: HAZARDOUS MATERIALS
X	CA STATE LANDS COMMISSION	X	STAN CO PUBLIC WORKS
X	CEMETERY DISTRICT: PATTERSON	X	STAN CO PUBLIC WORKS - SURVEY
X	CENTRAL VALLEY FLOOD PROTECTION	X	STAN CO SUPERVISOR DIST 5: C. CONDIT
X	CITY OF: PATTERSON	X	STAN CO SHERIFF
X	COOPERATIVE EXTENSION	X	STAN COUNTY COUNSEL
X	DISPOSAL DIST: BERTOLOTTI DISPOSAL AREA 1	X	STANISLAUS FIRE PREVENTION BUREAU
X	DER GROUNDWATER RESOURCES DIVISION	X	STANISLAUS LAFCO
X	FIRE PROTECTION DIST: WEST STANISLAUS	X	STATE OF CA SWRCB DIVISION OF DRINKING WATER DIST. 10
X	GSA: DELTA-MENDOTA II (DM-II)	X	SURROUNDING LAND OWNERS
X	HOSPITAL DIST: DEL PUERTO HEALTHCARE DISTRICT	X	INTERESTED PARTIES
X	IRRIGATION DIST: DEL PUERTO WATER DISTRICT	X	TELEPHONE COMPANY: AT&T
X	MOSQUITO DIST: TURLOCK	X	US NRCS
X	STAN CO EMERGENCY MEDICAL SERVICES	X	SAN FRANCISCO PUBLIC UTILITIES COMMISSION
X	PACIFIC GAS & ELECTRIC	X	US FISH & WILDLIFE
X	RAILROAD: CA NORTHERN & SOUTHERN PACIFIC	X	CA DEPARTMENT OF WATER RESOURCES
X	SAN JOAQUIN VALLEY APCD	X	STAN CO AG COMMISSIONER
X	SCHOOL DIST 1: PATTERSON JOINT UNIFIED	X	STAN CO ERC

STANISLAUS COUNTY
CEQA REFERRAL RESPONSE FORM

TO: **Stanislaus County Planning & Community Development**
1010 10th Street, Suite 3400
Modesto, CA 95354

FROM: _____

SUBJECT: **USE PERMIT AND WILLIAMSON ACT CANCELLATION APPLICATION NO. PLN2025-0007 – MID VALLEY POWER**

Based on this agency's particular field(s) of expertise, it is our position the above described project:

_____ Will not have a significant effect on the environment.
_____ May have a significant effect on the environment.
_____ No Comments.

Listed below are specific impacts which support our determination (e.g., traffic general, carrying capacity, soil types, air quality, etc.) – (attach additional sheet if necessary)

1.
2.
3.
4.

Listed below are possible mitigation measures for the above-listed impacts: *PLEASE BE SURE TO INCLUDE WHEN THE MITIGATION OR CONDITION NEEDS TO BE IMPLEMENTED (PRIOR TO RECORDING A MAP, PRIOR TO ISSUANCE OF A BUILDING PERMIT, ETC.):*

1.
2.
3.
4.

In addition, our agency has the following comments (attach additional sheets if necessary).

_____

_____

Response prepared by:

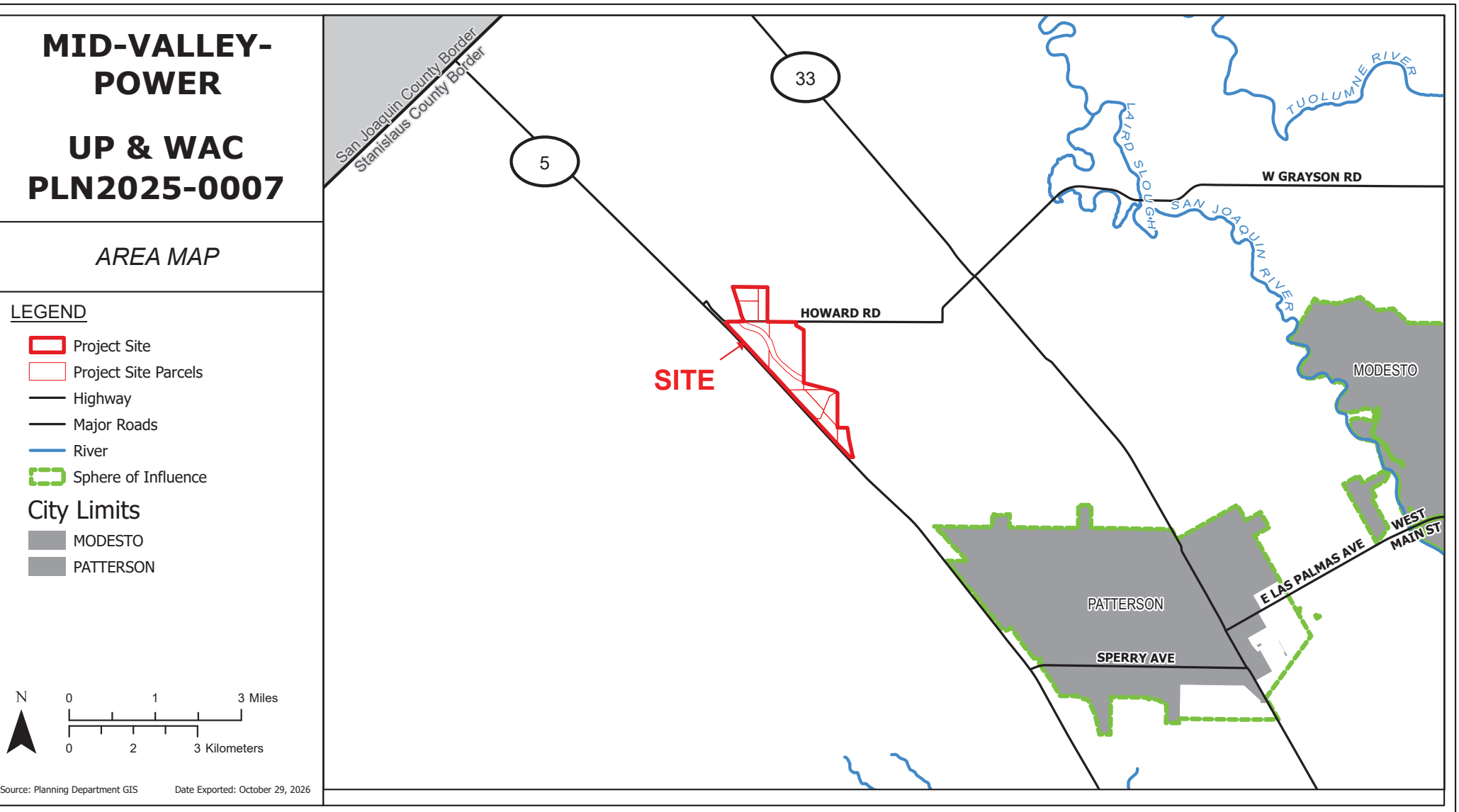
_____

Name Title Date

MID-VALLEY-POWER

UP & WAC PLN2025-0007

AREA MAP

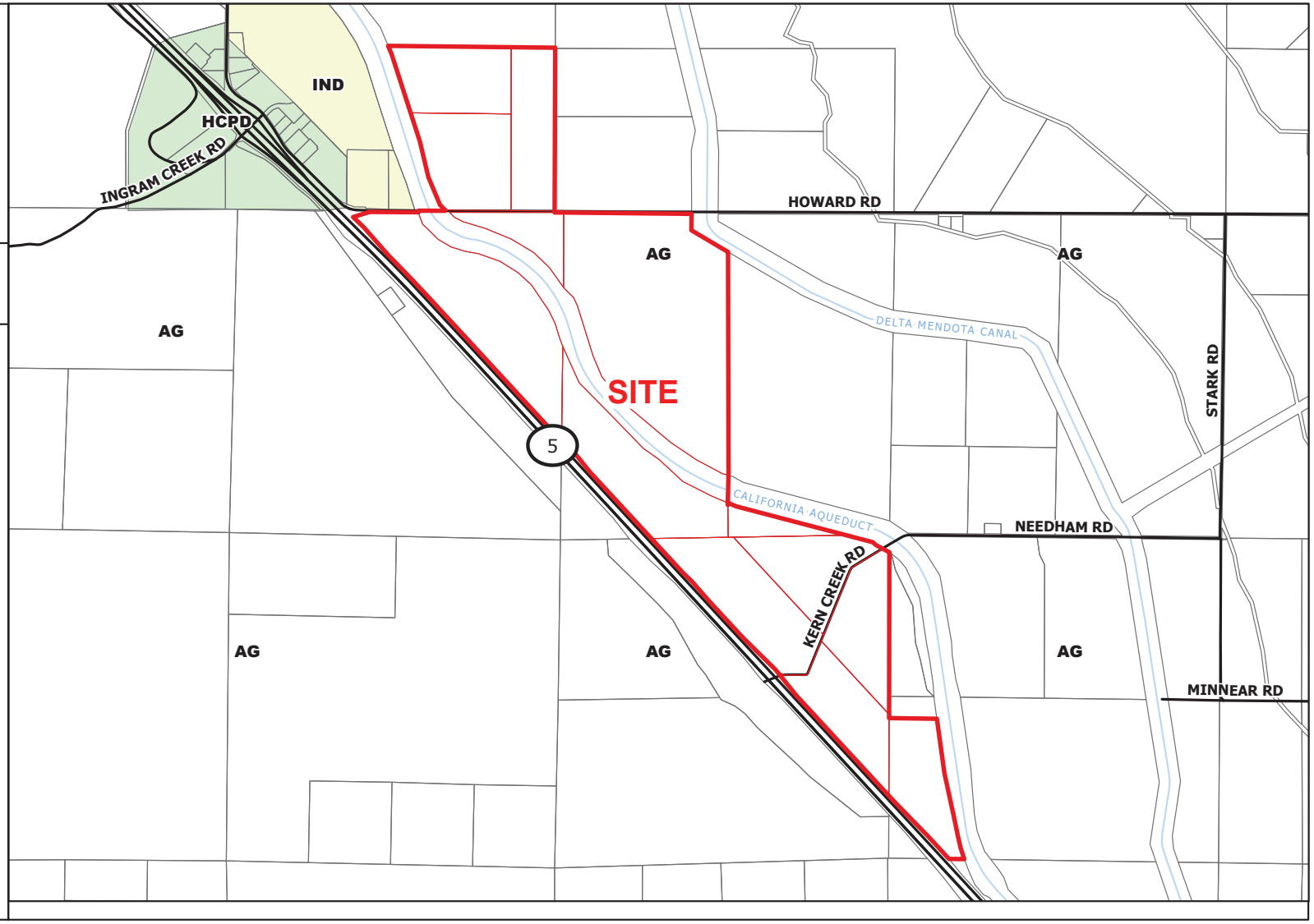


Source: Planning Department GIS Date Exported: October 29, 2026

MID-VALLEY-POWER

UP & WAC PLN2025-0007

GENERAL PLAN



LEGEND

- Project Site
- Project Site Parcels
- Highway
- Street
- Canal
- Parcel

General Plan

- Agriculture (AG)
- Highway Commercial/Planned Development (HCPD)
- Industrial (IND)

N

0 1,500 3,000 US Feet

0 450 900 Meters

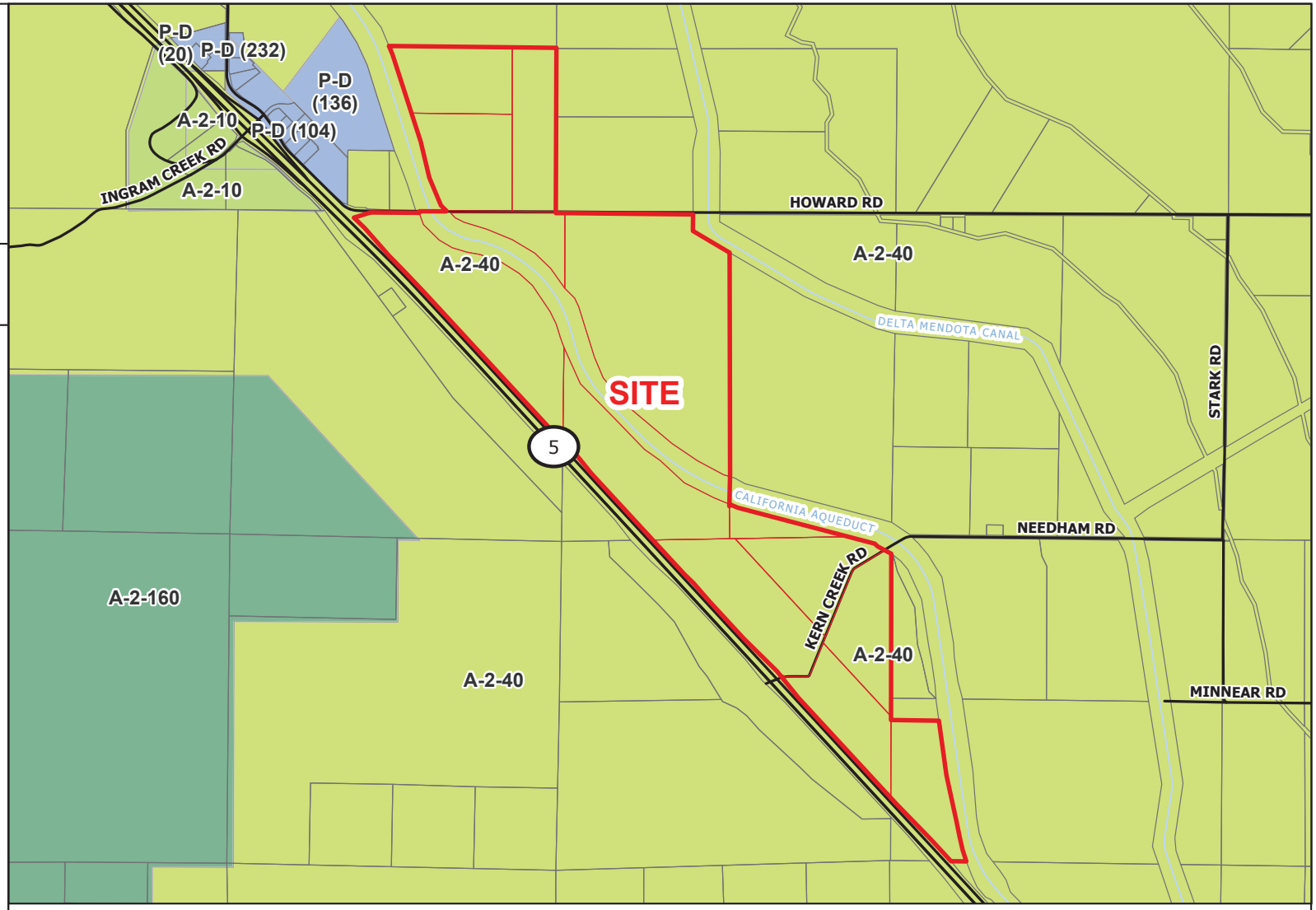
Source: Planning Department GIS

Date Exported: October 29, 2026

MID-VALLEY-POWER

UP & WAC

ZONING MAP



LEGEND

- Project Site
- Project Site Parcels
- Highway
- Street
- Canal
- Parcel

Zoning Designation

- General AG 10 Acre (A-2-10)
- General AG 160 Acre (A-2-160)
- General AG 40 Acre (A-2-40)
- Planned Development (P-D)

N

0 1,500 3,000 US Feet

0 450 900 Meters

Source: Planning Department GIS

Date Exported: October 29, 2026

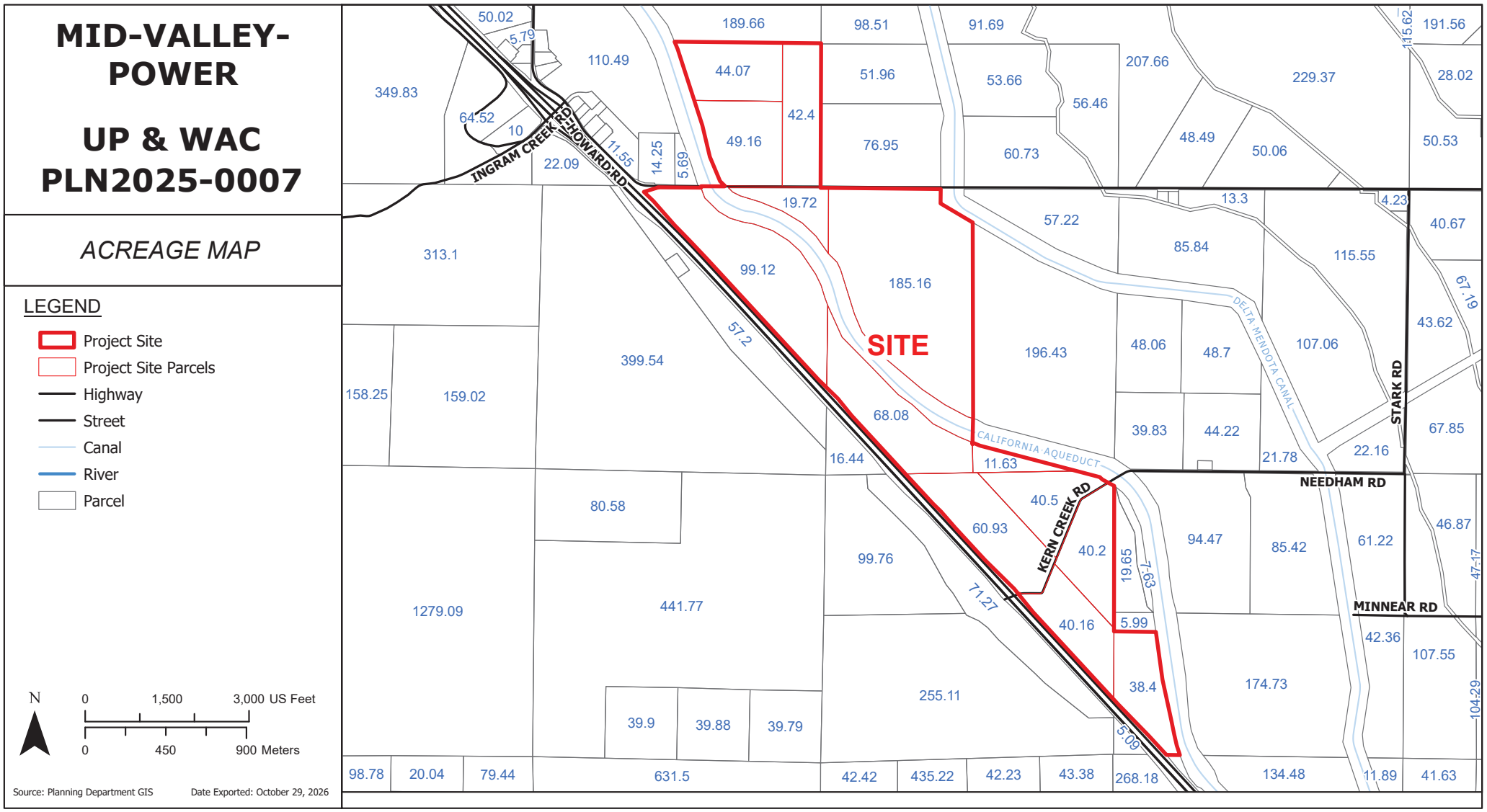
MID-VALLEY-POWER

UP & WAC PLN2025-0007

ACREAGE MAP

LEGEND

- Project Site
- Project Site Parcels
- Highway
- Street
- Canal
- River
- Parcel

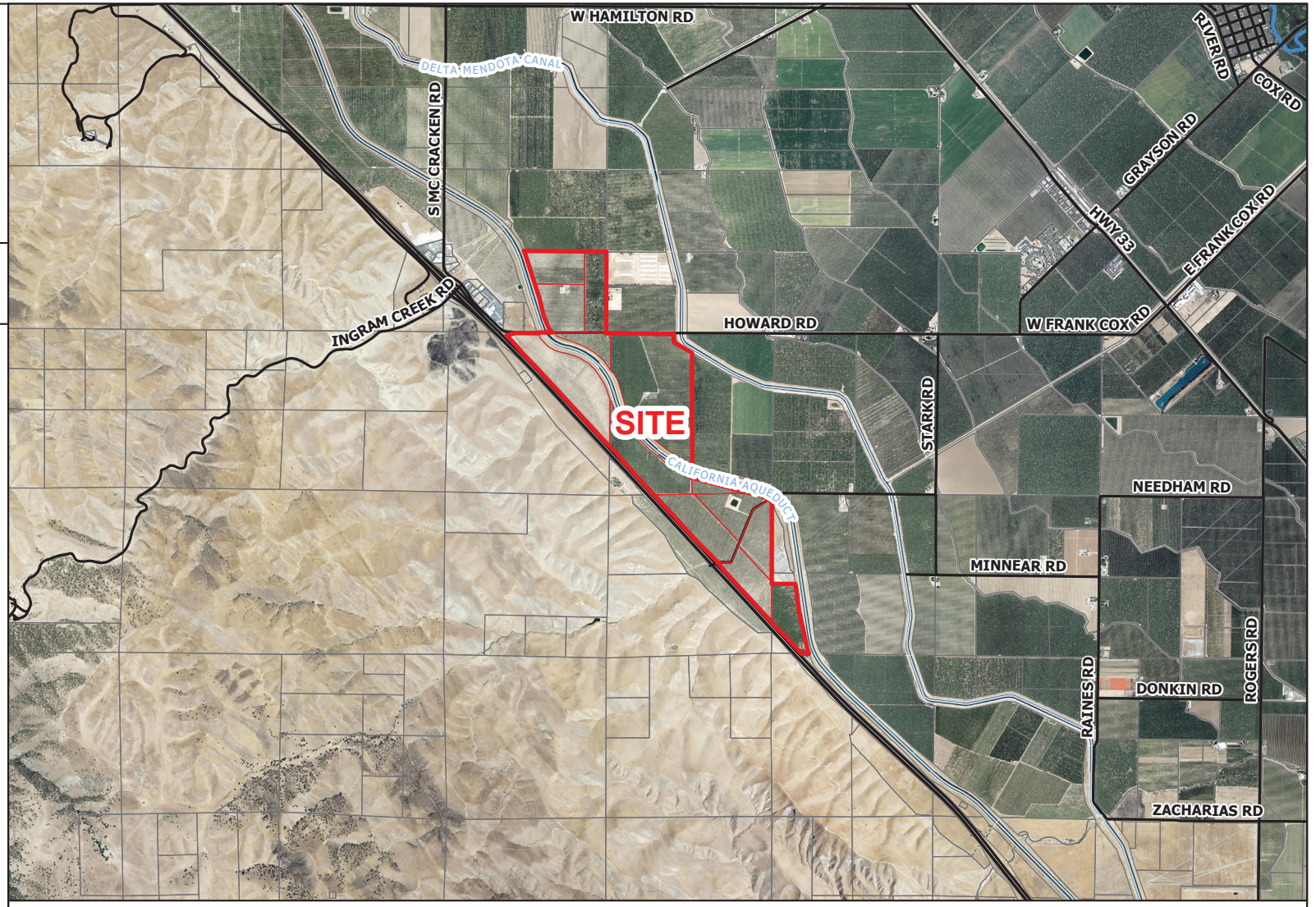


Source: Planning Department GIS Date Exported: October 29, 2026

MID-VALLEY-POWER

UP & WAC PLN2025-0007

2025 AERIAL AREA MAP



LEGEND

- Project Site
- Project Site Parcels
- Highway
- Street
- Canal
- River
- Parcel

N

0 3,100 6,200 US Feet

0 875 1,750 Meters

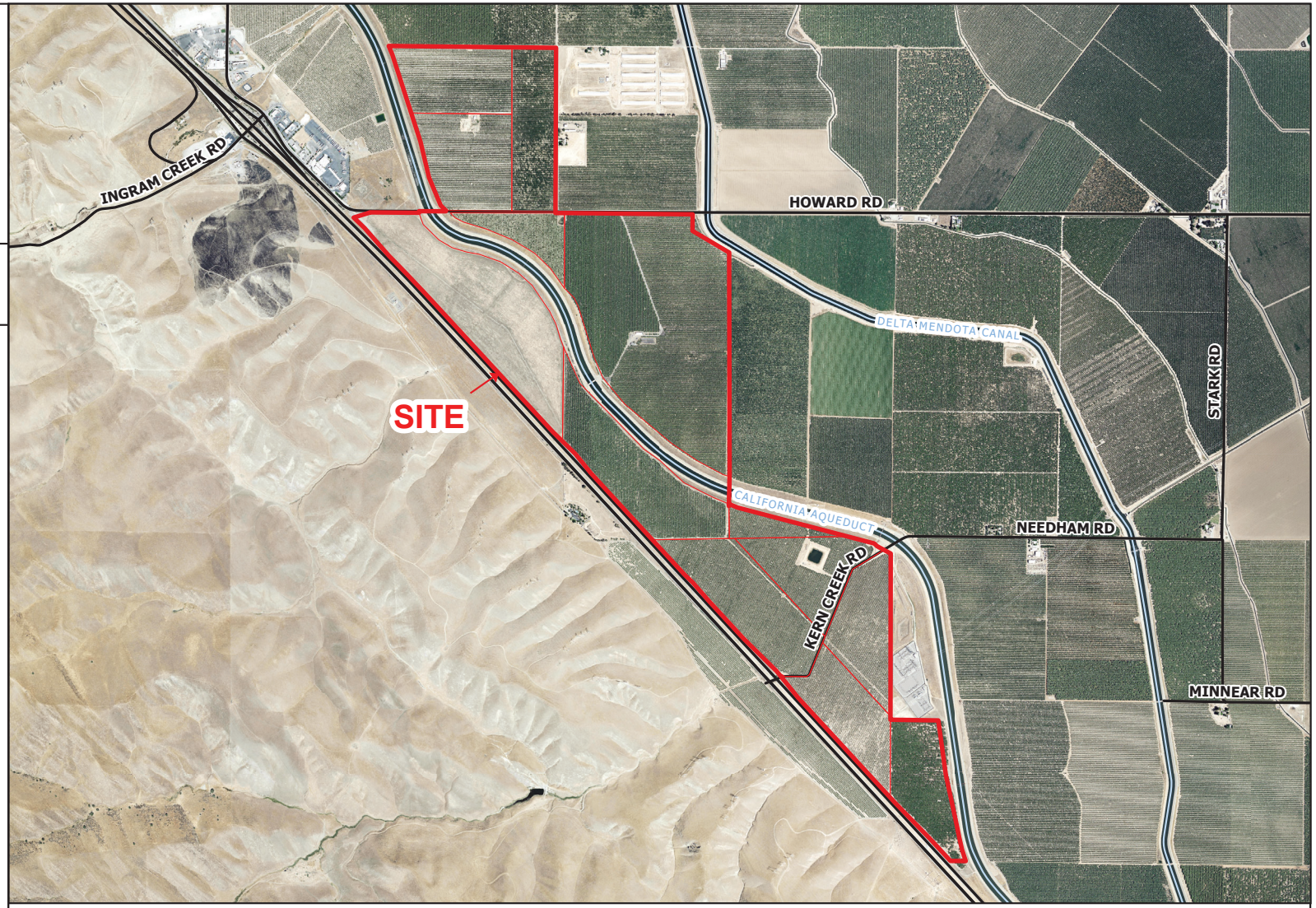
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Date Exported: October 29, 2026

MID-VALLEY-POWER

UP & WAC PLN2025-0007

2025 AERIAL SITE MAP



LEGEND

- Project Site
- Project Site Parcels
- Highway
- Street
- Canal

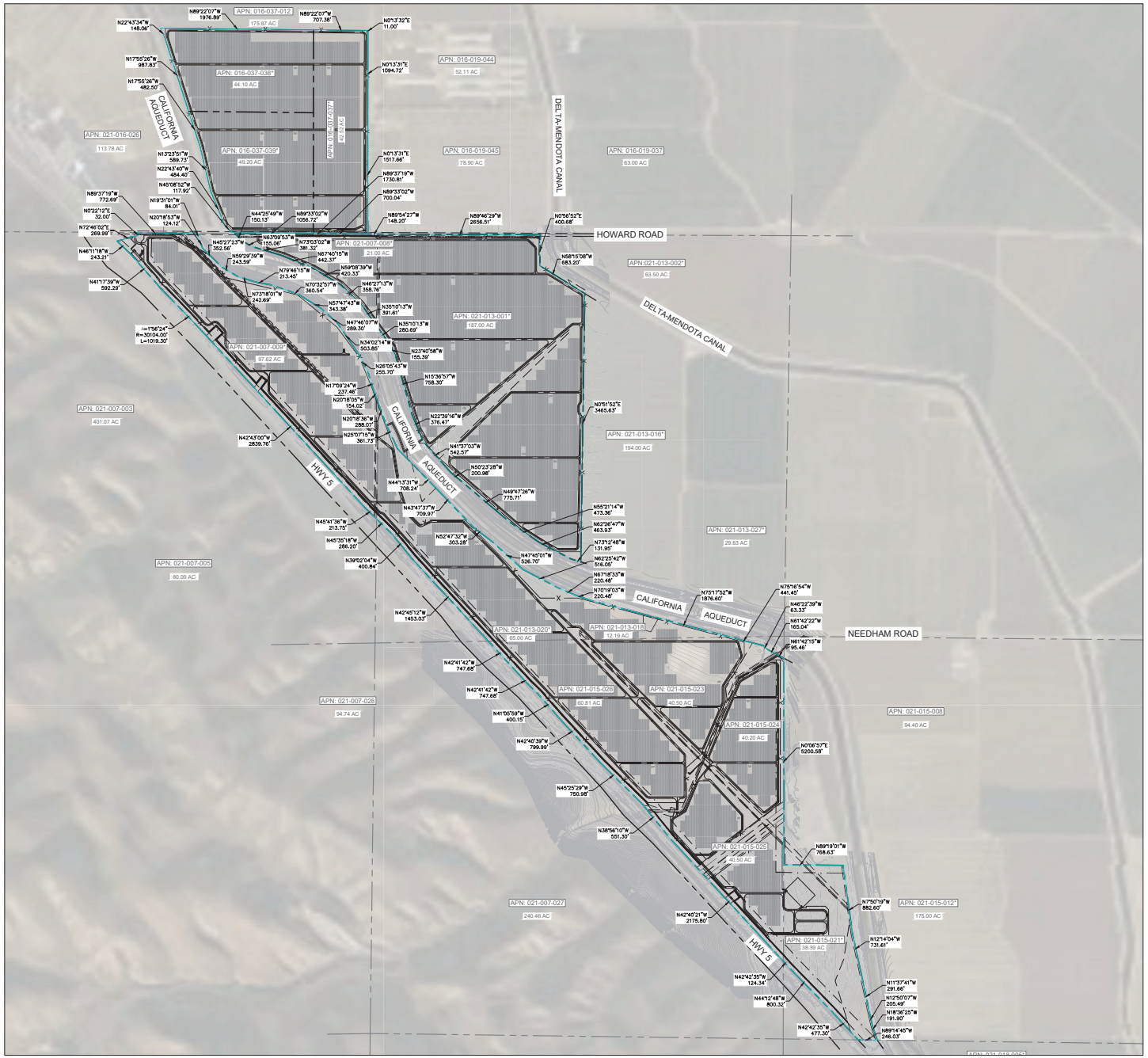
N

0 1,500 3,000 US Feet

0 450 900 Meters

Source: Planning Department GIS

Date Exported: October 29, 2026



LEGEND

- PROJECT BOUNDARY
- RIGHT-OF-WAY LINE
- PROPERTY LINE
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- ZONING SETBACK
- EXISTING FENCE
- PROPOSED PERIMETER FENCE
- PROPOSED ACCESS GATE
- PROPOSED ALL WEATHER ACCESS ROAD
- LANDSCAPE BUFFER

SHEET INDEX	
SHEET NO.	SHEET TITLE
CUP-00	CUP SITE PLAN - OVERALL
CUP-01	CUP SITE PLAN - SOUTH
CUP-02	CUP SITE PLAN - NORTH
CUP-03	CONCEPTUAL DETAILS
CUP-04	CONCEPTUAL DETAILS

SITE INFORMATION

PROJECT ADDRESS: 3348 HOWARD ROAD, PATTERSON, CA 95363

APN	ACREAGE	WILLIAMSON ACT
021-015-021	38.39	YES
021-015-025	40.50	NO
021-015-026	60.81	NO
021-015-024	40.20	NO
021-015-023	40.50	NO
021-013-018	12.19	NO
021-013-020	65.00	YES
021-013-001	187.00	YES
021-007-009	97.62	YES
021-007-008	21.00	YES
016-037-038	44.10	YES
016-037-039	49.20	YES
016-037-037	42.52	YES

*PARCEL ENROLLED IN WILLIAMSON ACT CONTRACT.

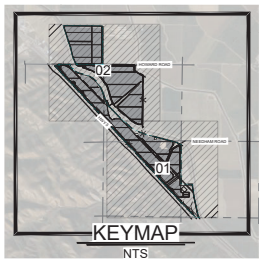
TOTAL PROJECT SIZE: 738.62 AC

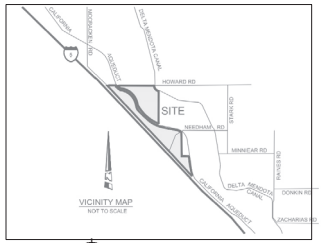
PROPOSED SITE DISTURBANCE: 738.62 AC

FLOOD NOTE: PROPERTY FALLS PARTIALLY WITHIN ZONE "X" AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, FEMA FLOOD INSURANCE RATE MAP 06099C0500E, 06099C0515E, EFFECTIVE DATE 09/26/2008

ZONE DESIGNATION: ZONE A-2-40: GENERAL AGRICULTURE DISTRICT

AHJ SETBACKS:
10' LANDSCAPE BUFFER
15' ARRAY SETBACK
50' EASEMENT SETBACK
100' DEFENSIBLE SPACE SETBACK FROM I-5 AND SUBSTATION
45' BUILDING SETBACK FROM FRONT, SIDE, AND REAR





NORTH

GRAPHIC SCALE IN FEET
0 300 600 1200
1" = 600'
WHEN PLOTTED ON 24" X 36" SHEET

Know what's below. Call 811 before you dig.

NO	REVISIONS	DATE	BY
1	1ST COUNTY SUBMITTAL	6/10/26	DB

MVP MID VALLEY POWER

Kimley»Horn
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25152 SPRINGFIELD COURT, SUITE 200
SANTA CLARITA, CA 91355
PHONE: 714.939.1030 FAX: 714.938.9488
WWW.KIMLEY-HORN.COM

NOT FOR CONSTRUCTION

KHA PROJECT	
PROJ.# 191118001	
DATE	8.27'26
SCALE: AS SHOWN	
DESIGNED BY:	JG
DRAWN BY:	JG
CHECKED BY:	DB

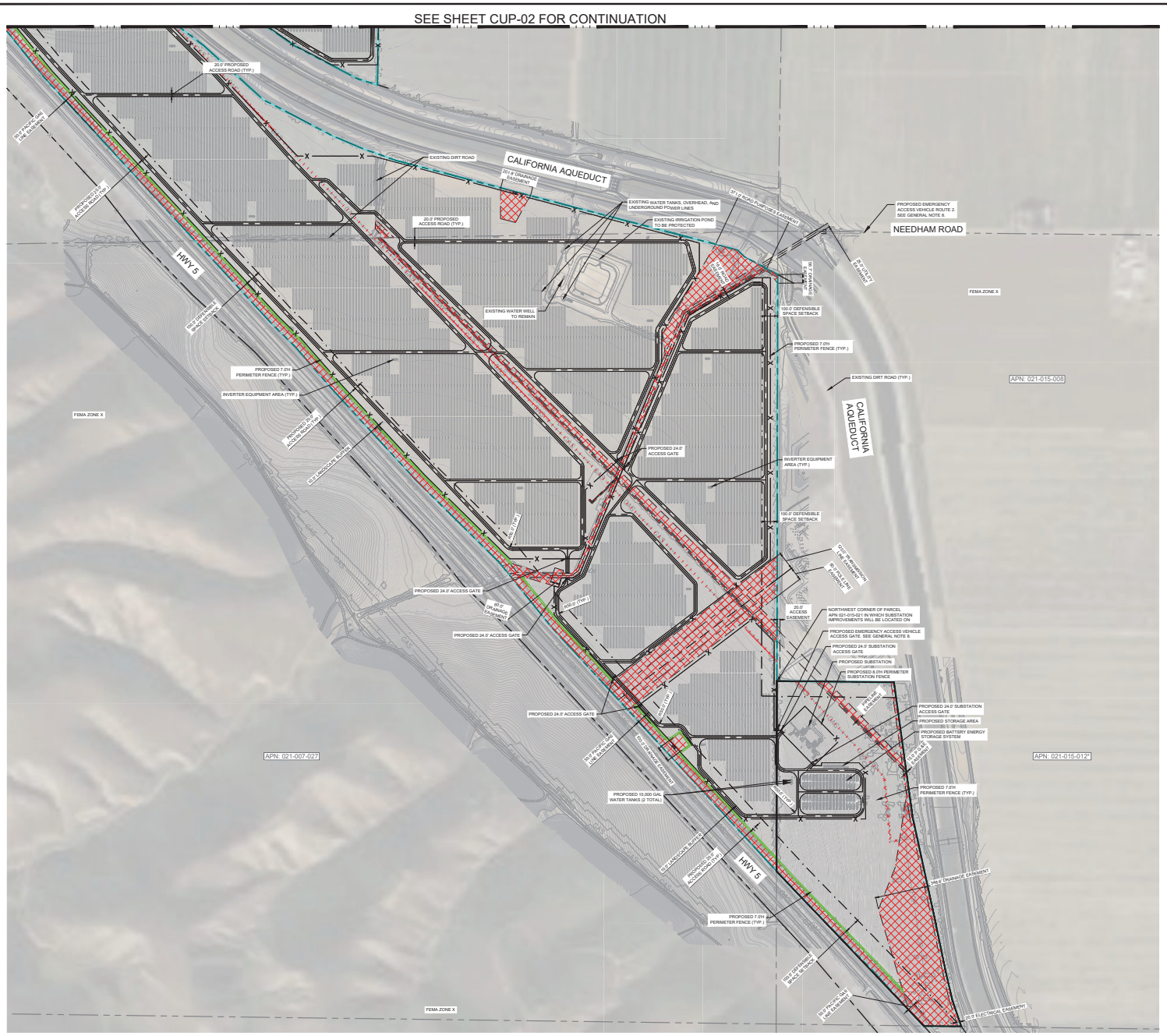
CUP SITE PLAN - OVERALL

HONDEVILLE ENERGY CENTER

PATTERSON, STANISLAUS COUNTY, CA 95387

SHEET NUMBER
CUP-00

Plotted By: Gonzalez, Jasmine Sheet Set: Kha Layout: OVERALL SITE PLAN August 27, 2026 02:27:03pm K:\SCL_Energy\191118001_MVP_Stanislaus_Site_RES\CAD - Civil\Plan Sheets\CD0-00_SITE PLAN.dwg
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LEGEND

- PROJECT BOUNDARY
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- EASEMENT LINE
- ZONING SETBACK
- EXISTING FENCE
- PROPOSED PERIMETER FENCE
- PROPOSED ACCESS GATE
- PROPOSED ALL WEATHER ACCESS ROAD
- AVOIDANCE AREAS
- LANDSCAPE BUFFER
- ARRAY OUTLINE
- INVERTER EQUIPMENT AREA
- BATTERY ENERGY STORAGE SYSTEM

GENERAL NOTES

1. THIS SITE PLAN IS PRELIMINARY IN NATURE AND THEREFORE DOES NOT GUARANTEE THAT REQUIREMENTS FOR STORM DRAINAGE, GRADING, UTILITY EASEMENTS, AND OTHER SIMILAR CRITERIA ARE PROPERLY ADDRESSED AT THIS TIME. THE ABOVE REQUIREMENTS CAN AFFECT THE LAYOUT OF THIS SITE. THIS SITE PLAN IS CONCEPTUAL IN NATURE AND SUBJECT TO CHANGE DURING FINAL DESIGN.
2. ELEVATIONS SHOWN ARE HEREON BASED ON THE ALTA SURVEY AND TOPOGRAPHIC SURVEY PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. DATED APRIL 2026.
3. PV TRACKERS, INVERTER EQUIPMENT AREAS, BATTERY ENERGY STORAGE EQUIPMENT, SUBSTATION IMPROVEMENTS, AND INTERCONNECTION EQUIPMENT ARE CONCEPTUAL AND HAVE BEEN DESIGNED BY OTHERS. THESE IMPROVEMENTS ARE SUBJECT TO CHANGE DURING FINAL DESIGN.
4. TO PROTECT EQUIPMENT FROM POTENTIAL PONDING OR OVERLAND SHEET FLOW, ALL BOTTOM OF SENSITIVE ELECTRICAL EQUIPMENT (INVERTERS, COMBINER BOXES, BESS, INTERCONNECTION EQUIPMENT, ETC.) SHALL BE ELEVATED A MINIMUM OF 12" ABOVE 100 YEAR FLOOD ELEVATION.
5. THE NEW ONSITE ROAD SURFACE SHALL CLOSELY MATCH THE EXISTING SURFACE GRADES. THE INTENT IS TO MAINTAIN EXISTING SURFACE FLOWS ACROSS THE SITE AND ELIMINATE AREAS OF PONDING.
6. FOR ONSITE AND OFFSITE DRAINAGE ANALYSIS, REFER TO PRELIMINARY DRAINAGE REPORT PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC.
7. OLIVE, OLEANDER OR MYOPORUM LAETUM EVERGREEN SCREEN TREES-SPACED 10'-15' O.C. WILL BE PLANTED ALONG THE ENTIRE PROJECT FRONTAGE ALONG I-5 FREEWAY.
8. ALL EMERGENCY VEHICLE ACCESS GATES TO HAVE KNOX BOX / PADLOCK.
9. AS REQUESTED BY DEPARTMENT OF WATER RESOURCES (DWR), THE PROJECT SHALL INSTALL THE PROPOSED CHAIN LINK PERIMETER FENCING ALONG DWR'S RIGHT OF WAY BOUNDARY, ALSO REFERRED TO AS THE PROJECT BOUNDARY NOT ALONG THE DRAINAGE EASEMENT BOUNDARY. PLEASE NOTE, NO IMPROVEMENTS ARE PERMITTED WITHIN THE DRAINAGE EASEMENTS THAT WOULD PREVENT, IMEPEDE, OR RESTRICT THE NATURAL FLOW OF WATER.
10. AS REQUESTED BY DWR, THE PROPOSED GATES PROVIDING ACCESS TO DWR'S DRAINAGE EASEMENTS SHALL BE AT LEAST 16 FEET WIDE. WHERE THE GATES ARE TO BE LOCKED, DWR SHALL HAVE ACCESS FOR INGRESS AND EGRESS AT ALL TIMES VIA A KEY OR COMBINATION LOCK.

* PARCEL ENROLLED IN WILLIAMSON ACT CONTRACT.

NORTH

GRAPHIC SCALE IN FEET
0 150 300 600
1" = 300 '
WHEN PLOTTED ON 24" X 36" SHEET

811 Know what's below. Call 811 before you dig.

NO	REVISIONS	DATE	BY
1	1ST COUNTY SUBMITTAL	6/10/26	DB

MVP MID VALLEY POWER

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NOT FOR CONSTRUCTION

KHA PROJECT PROJ.# 191118001
DATE 8/27/26
SCALE: AS SHOWN
DESIGNED BY: JG
DRAWN BY: JG
CHECKED BY: DB

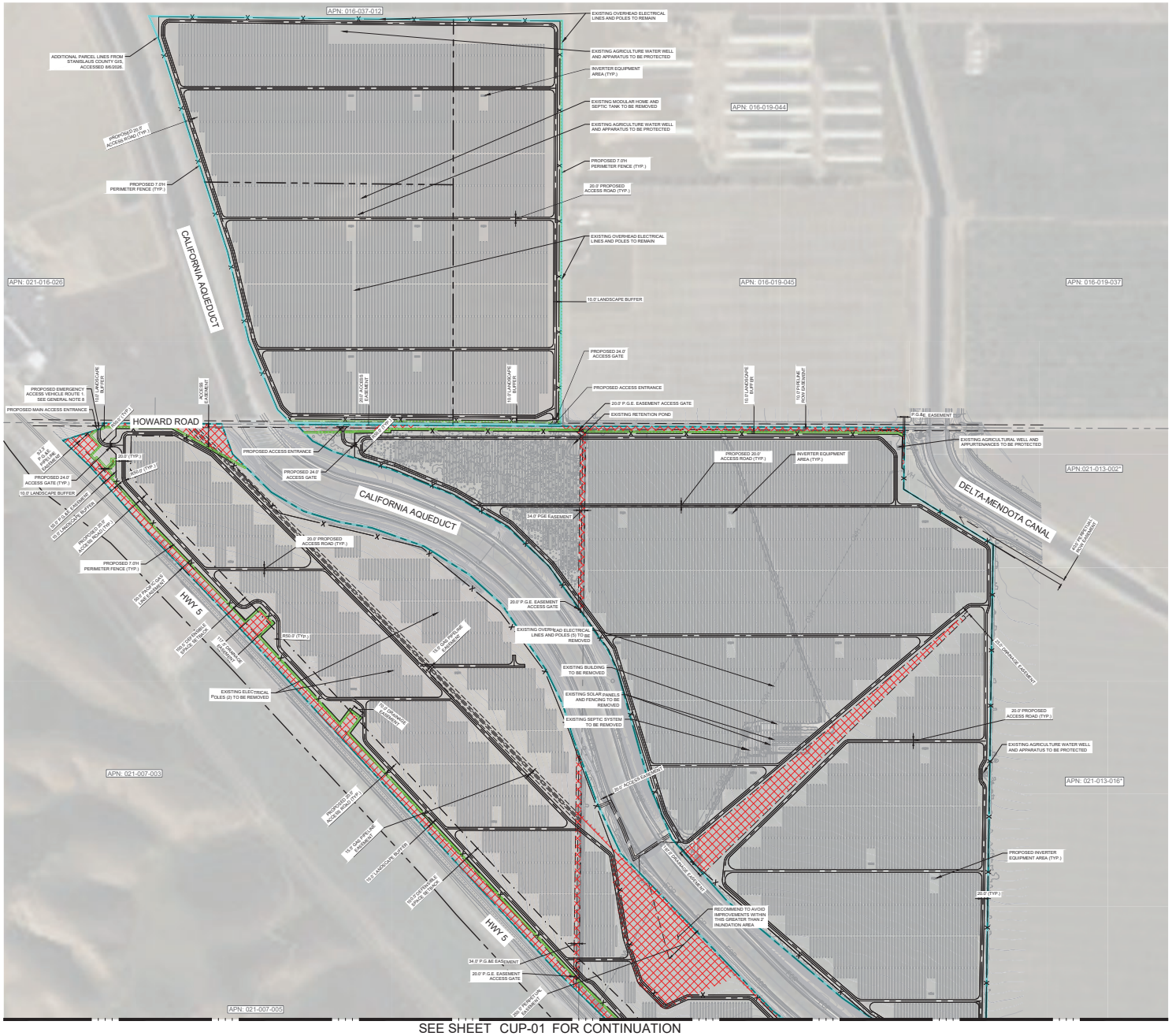
CUP SITE PLAN - SOUTH

HONDEVILLE ENERGY CENTER

PATTERSON, STANISLAUS COUNTY, CA 95387

SHEET NUMBER
CUP-01

Plotted By: Gonzalez, Jasmine Sheet Set: Kha Layout: ENLARGED SITE PLAN August 27, 2026 06:31:25pm K:\SCI_Energy\191118001_MVP_Stanislaus_5-MW_BESS\CAD - Civil\Plan Sheets\CUP-02_ENLARGED SITE PLAN.dwg
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LEGEND

- PROJECT BOUNDARY
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7. OLIVE, OLEANDER OR MYOPORUM LAETUM EVERGREEN SCREEN TREES-SPACED 10'-15' O.C. WILL BE PLANTED ALONG THE ENTIRE PROJECT FRONTAGE ALONG I-5 FREEWAY.
8. ALL EMERGENCY VEHICLE ACCESS GATES TO HAVE KNOX BOX / PADLOCK.
9. AS REQUESTED BY DEPARTMENT OF WATER RESOURCES (DWR), THE PROJECT SHALL INSTALL THE PROPOSED CHAIN LINK PERIMETER FENCING ALONG DWR'S RIGHT OF WAY BOUNDARY, ALSO REFERRED TO AS THE PROJECT BOUNDARY NOT ALONG THE DRAINAGE EASEMENT BOUNDARY. PLEASE NOTE, NO IMPROVEMENTS ARE PERMITTED WITHIN THE DRAINAGE EASEMENTS THAT WOULD PREVENT, IMEPEDE, OR RESTRICT THE NATURAL FLOW OF WATER.
10. 10. AS REQUESTED BY DWR, THE PROPOSED GATES PROVIDING ACCESS TO DWR'S DRAINAGE EASEMENTS SHALL BE AT LEAST 16 FEET WIDE. WHERE THE GATES ARE TO BE LOCKED, DWR SHALL HAVE ACCESS FOR INGRESS AND EGRESS AT ALL TIMES VIA A KEY OR COMBINATION LOCK.

* PARCEL ENROLLED IN WILLIAMSON ACT CONTRACT.

NORTH

GRAPHIC SCALE IN FEET
0 150 300 600
1" = 300'
WHEN PLOTTED ON 24"X 36" SHEET

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MVP MID VALLEY POWER

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SANTA CLARITA, CA 91355
PHONE: 714.939.1030 FAX: 714.938.9488
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NOT FOR CONSTRUCTION

KHA PROJECT
PROJ.# 191119001
DATE 8/27/26
SCALE: AS SHOWN
DESIGNED BY: JG
DRAWN BY: JG
CHECKED BY: DB

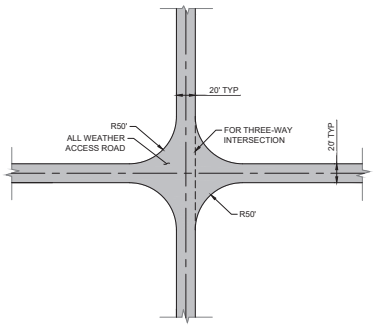
CUP SITE PLAN - NORTH

HONDEVILLE ENERGY CENTER

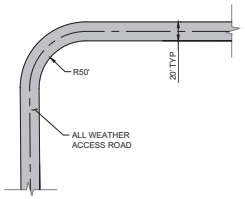
PATTERSON, STANISLAUS COUNTY, CA 95387

SHEET NUMBER
CUP-02

Plotted By: Gonzalez, Jasmine Sheet Set: Kha Layout: ENLARGED SITE PLAN (2) August 27, 2026 - 02:27:23pm K:\SG_Energy\191119001_MVP_Stanislaus_SolAr_BESS\CAD - Civil\Plan Sheets\C00-00_ENLARGED SITE PLAN.dwg
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INTERSECTION LAYOUT

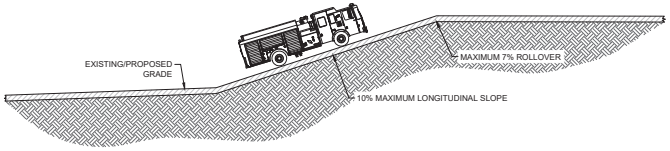


CORNER KNUCKLE

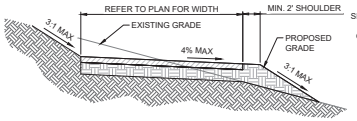
ALL WEATHER ACCESS ROAD - HORIZONTAL GEOMETRY

N.T.S

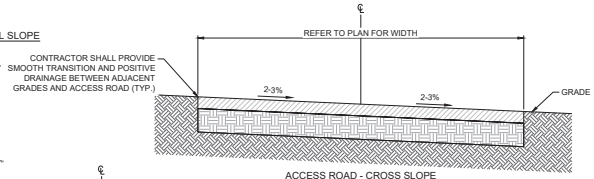
5



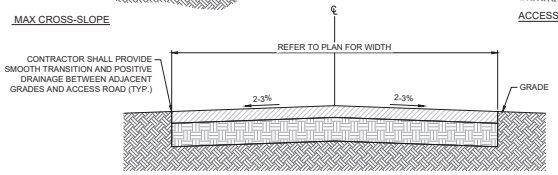
MAX LONGITUDINAL SLOPE



MAX CROSS-SLOPE



ACCESS ROAD - CROSS SLOPE



ACCESS ROAD - CROWNED

TYPICAL ACCESS ROAD CROSS-SECTION NOTES

1. IMPROVEMENTS SHALL COMPLY WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER AND PROJECT GEOTECHNICAL REPORT.
2. REFER TO PLAN FOR SPECIFIC ROAD WIDTHS.
3. CROSS-SLOPE CROSS-SECTION IS THE PREFERRED ACCESS ROAD SECTION AND SHALL BE USED UPSTREAM DRAINAGE IS CROSSING AS SHEET FLOW. WHEN UPSTREAM DRAINAGE IS CROSSING AS CONCENTRATED FLOW, ADDITIONAL STABILIZATION OF ROAD IS REQUIRED.
4. CROWNED CROSS-SECTION MAY BE USED WHEN LOCATED ON A RIDGE, WHEN ROADSIDE DITCHES ARE PROVIDED ALONG BOTH SIDES, OR IN FLAT AREAS WITH NO NATURAL DRAINAGE AND THE CROWN IS BUILT-UP.
5. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION AND POSITIVE DRAINAGE BETWEEN EDGE OF ROAD AND ADJACENT GRADES.
6. A MINIMUM SLOPE OF 2% SHOULD BE ESTABLISHED TO PROVIDE POSITIVE DRAINAGE OFF THE ACCESS ROAD SURFACE WHERE FEASIBLE. ROAD GRADING SHOULD NOT RESULT IN DEPRESSIONS ALONG ROAD SURFACE THAT MAY COLLECT WATER AND ADVERSELY IMPACT ROAD LONGEVITY.
7. SOME INSTABILITY AND EROSION SHOULD BE ANTICIPATED WHEN UNPAVED ROADWAYS ARE EXPOSED TO SURFACE WATER AND RUNOFF. PERIODIC MAINTENANCE OF UNPAVED ROADWAYS SHOULD BE ANTICIPATED.

ACCESS ROAD - VERTICAL GEOMETRY

N.T.S

6

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KHA PROJECT
PROJ. # 191118001
DATE
8/27/26
SCALE: AS SHOWN
DESIGNED BY: JG
DRAWN BY: JG
CHECKED BY: DB

CONCEPTUAL DETAILS

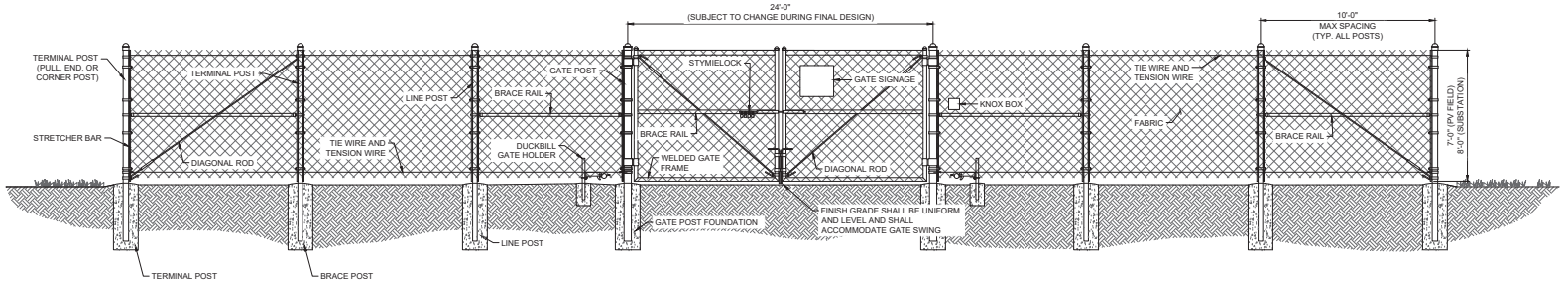
HONDEVILLE ENERGY CENTER

PATTERSON, STANISLAUS COUNTY, CA 95387

SHEET NUMBER
CUP-03

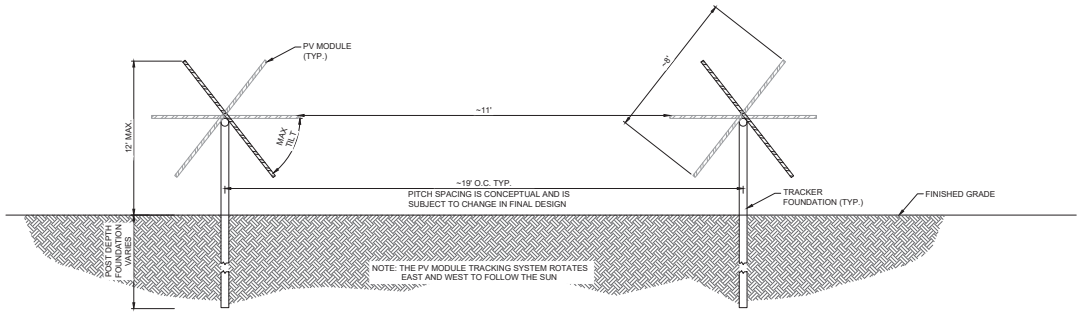
811 Know what's below. Call 811 before you dig.

Plotted By: Gonzalez, Jasmine Sheet Set: Kha Layout: ACCESS ROAD DETAILS 1 August 27, 2026 02:27:30pm K:\SD_Energy\191118001_MVP_Stanislaus_Solar_JB\SD\CAD - Civil\Plan Sheets\CIVIL_CONCEPTUAL DETAILS.dwg
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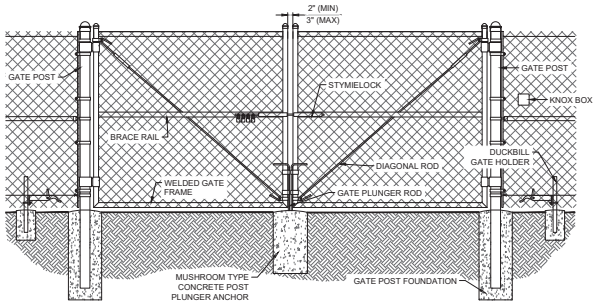


NOTE: FOR GATE AND FENCE GENERAL NOTES, SEE DETAIL 4 BELOW

CONCEPTUAL FENCING DETAIL
N.T.S
1



CONCEPTUAL TRACKER SECTION
N.T.S
2



CONCEPTUAL DOUBLE SWING GATE DETAIL
N.T.S
3

GENERAL NOTES
1. FABRIC SHALL BE CHAIN LINK, 9 GA. DIAMOND MESH, GALVANIZED 1.2 OZ ZINC. SELVAGE: KNUCKLE BOTTOM, TWIST TOP.
2. DIAGONAL ROD: 3/8" ROD WITH GALVANIZED STEEL TURNBUCKLE OR OR DIAGONAL THREADED ROD.
3. STRETCHER BAR: 3/16" X 3/4" (MIN.) FULL HEIGHT.
4. INSTALL SWING GATES PER ASTM F-900.
5. ALL GATE FRAMES SHALL BE WELDED. ALL WELDING SHALL BE COATED WITH (2) COATS OF X-O RUST PROFESSIONAL ALUMINUM PAINT.
6. ALL GATES SHALL BE PROVIDED KNOX BOXES. IF VEHICULAR GATES ARE TO BE MOTORIZED, KNOX KEY SWITCHES SHALL BE PROVIDED.
7. ALL PIPE AND FENCE HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A123 AFTER FABRICATION.
8. ALL OPEN POSTS SHALL HAVE END-CAPS.
9. INTERMEDIATE POST ASSEMBLIES SHALL BE SPACED AT 500' INTERVALS OR MIDWAY BETWEEN PULL POSTS WHEN THE DISTANCE BETWEEN SUCH POSTS IS LESS THAN 1,000' AND MORE THAN 500'.
10. GATES AND FENCE TO BE PROPERLY GROUNDED PER CODE REQUIREMENTS.
11. MAX CLEARANCE BETWEEN BOTTOM OF FENCE FABRIC AND GRADE SHALL BE 2" UNLESS WILDLIFE FENCING IS REQUIRED, THEN WILDLIFE FENCING CLEARANCE REQUIREMENTS SHALL BE FOLLOWED.
12. DIMENSIONS NOTED ON THIS DETAIL ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

GATE AND FENCE GENERAL NOTES
N.T.S
4

NO.	REVISIONS	DATE	BY
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MVP MID VALLEY POWER

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NOT FOR CONSTRUCTION

KHA PROJECT	
PROJ. # 190118001	
DATE	6/27/26
SCALE:	AS SHOWN
DESIGNED BY:	JG
DRAWN BY:	JG
CHECKED BY:	DB

CONCEPTUAL DETAILS

HONDEVILLE ENERGY CENTER

PATTERSON, STANISLAUS COUNTY, CA 95363

SHEET NUMBER
CUP-04

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Hondeville Energy Center (HEC) Project

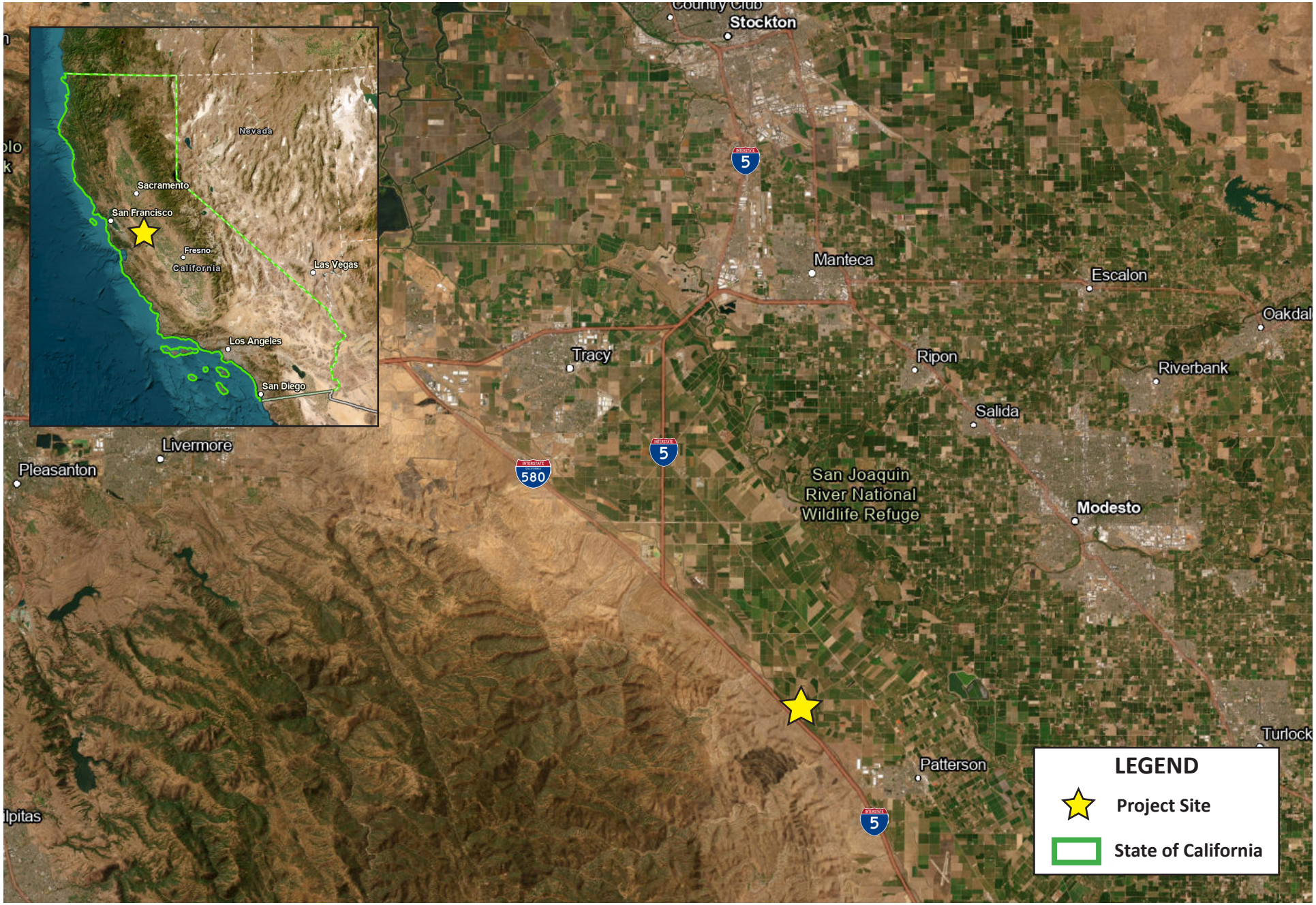
1.0 Project Location

The Hondeville Energy Center Project (Project) is a 130 megawatt (MW) solar project with a 160 MW battery energy storage system. The site is located near the community of Westley, in unincorporated Stanislaus County (County), California at 3348 Howard Road. The Project site is broken into three primary areas consisting of the southern portion, central portion and northern portion. The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and unnamed and unpaved roads to the north and east. See **Figure 1: Regional Vicinity Map** and **Figure 2: Local Vicinity Map**. The Project site is primarily surrounded by rural, agricultural land. The approximately 738.62-acre Project site would be comprised of 13 Accessor Parcel Numbers (APNs) as shown in **Table 1: Project Parcels**, below:

Table 1: Project Parcels

Parcel No.[1]	APN	Approximate Size[2]
Parcel 1	021-015-021	38.39 acres
Parcel 2	021-015-025	40.09 acres
Parcel 3	021-015-024	40.20 acres
Parcel 4	021-015-026	60.81 acres
Parcel 5	021-015-023	40.50 acres
Parcel 6	021-013-018	12.19 acres
Parcel 7	021-013-020	65.00 acres
Parcel 8	021-013-001	187.00 acres
Parcel 9	021-007-008	21.00 acres
Parcel 10	021-007-009	97.62 acres
Parcel 11	016-037-038	44.10 acres
Parcel 12	016-037-039	49.20 acres
Parcel 13	016-037-037	42.52 acres
Total	-	738.62 acres

1. See Figure 2: Local Vicinity Map for Parcel No. labels.
2. Reported site acreage may vary slightly depending on the data source, including County Assessor's Parcel Number (APN) records, recorded title information, and/or detailed land surveys. Minor discrepancies are typical and reflect differences in mapping methodologies and levels of precision.
Source: Stanislaus County GIS Public Inquiry Map, 2026.



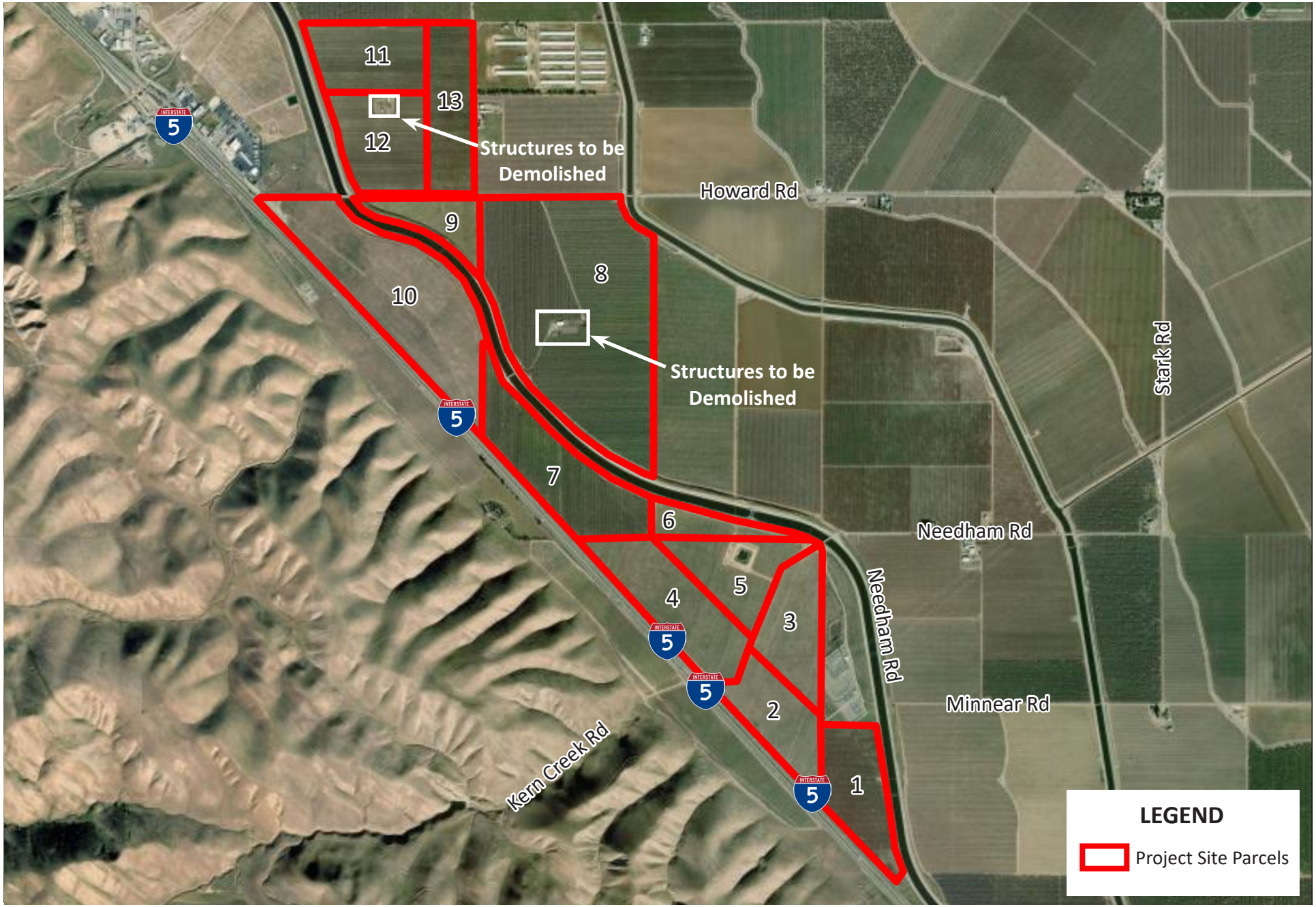
Source: ESRI 2025

Figure 1: Regional Vicinity Map

Hondeville Energy Center Project

Not to scale

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Source: ArcGIS Pro, 2026

Figure 2: Local Vicinity Map

Hondeville Energy Center Project

Not to scale

Kimley»Horn

The topography of the Project site is mostly flat agricultural land. Sloped areas occur in association with a portion of the California Aqueduct that runs between the southern and central portions of the Project site. Within the site, there are surface elevations varying between approximately 190 feet above mean sea level (amsl) to approximately 371 feet amsl, gradually increasing in elevation from the northern section of the site to the south.

Existing and Surrounding Land Uses

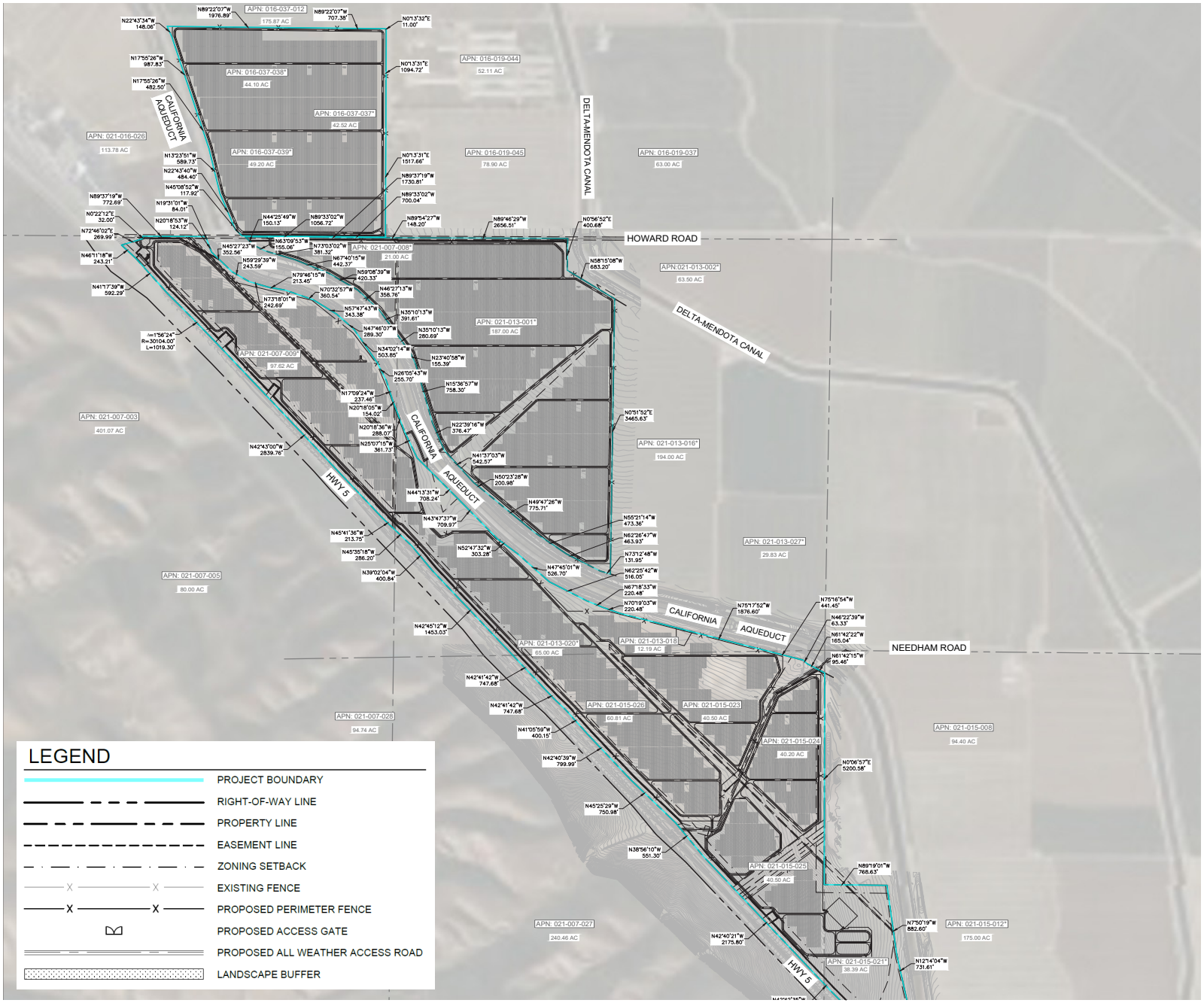
Existing structures on the Project site include a modular home, agricultural structure, and small solar array on Parcel 8, as well as a small structure / mobile home and outdoor vehicle/equipment storage area on Parcel 12. Much of the site is currently farmed, and farming across the Project site is sporadic over the year for crop maintenance. Primary harvest seasons are currently May through June for the cherry and apricot crops and August through October for the almond crops. Existing overhead electrical lines and poles are located throughout the Project site on the northernmost Project site boundary, northeastern boundary, and on Parcels 5, 8, 10, and 12.

The Stanislaus County General Plan 2015 (General Plan) designates all 13 parcels as Agriculture, and the parcels are zoned General Agriculture – 40 acres (A-2-40) under the County's Zoning Ordinance. Eight parcels totaling approximately 544.83 acres within the Project site (Parcels 1, 7, 8, 9, 10, 11, 12, and 13) are enrolled under active Williamson Act Contracts. Additionally, the Project site is in the Del Puerto Water District (Water District) and is currently irrigated by groundwater and limited surface water. Surface water is provided through the Water District and delivered by various surface water pumps and pipelines from the Delta-Mendota Canal as part of the Central Valley Project (CVP). Ground water is supplied by agriculture water wells located across the Project site located on Parcels 1, 5, 8, 9, 11 and 12. An irrigation reservoir is located on Parcel 5.

The Project site primarily is surrounded by rural, agricultural land. Three single-family homes are located east of the Project, the closest being 100 feet east of Parcel 13. Additionally, a truck stop is located approximately 540 feet northwest of Parcel 10, and a hotel is located approximately 1,818 feet to the northwest of Parcel 10. The truck stop includes a gas station and various commercial/retail uses.

2.0 Project Overview

Development of the Project would include the development of a utility-scale single-axis tracking solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility; see **Figure 3: Conceptual Site Plan**. Existing structures on Parcels 8 and 12 would be demolished to facilitate construction of the solar facility.



Source: Mid Valley Power, 2026

Figure 3: Conceptual Site Plan

Hondeville Energy Center Project

Not to scale

Kimley»Horn

The single-axis tracking solar PV electricity generation (solar panel) component of the Project would be sized to produce 130 megawatt alternating current (MWac). Depending on the ultimate type of module selected, the total height of the solar panels measured from the ground surface would be between 4 feet and 6 feet when the array is in a flat orientation to 12 feet when the array is in a tilted orientation to the east or west.

The Project would also include the construction of two 34.5 kilowatt (kW) overhead collection lines in a single crossing location (as permitted by the Department of Water Resources [DWR]) across the California Aqueduct to interconnect with the southern and central portions of the Project site. The collection lines and associated towers on each side of the aqueduct are expected to be approximately 100 feet tall and span the entire Aqueduct. The towers will be constructed on the Project site and will not interfere with or be placed on DWR property or within the DWR right of way. The proposed overhead collection lines will also be shorter than the existing electric transmission line towers currently on the Project site.

The Project would include the construction of one or two 34.5 kW underground high voltage collection lines in a single crossing location (as permitted by Stanislaus County) across Howard Road (County Route J16) to interconnect with the central and northern portions of the Project site. The underground collection line(s) are expected to be approximately 100 to 200 feet in length and be placed a minimum of 3 to 4 feet below grade. The underground crossing will not interfere with Howard Road.

The BESS component of the Project would be comprised of lithium-ion battery modules housed in racks within non-walk-in outdoor enclosures (BESS containers) on Parcel 1 on the southern most portion of the Project Site. The BESS containers would be built in a factory setting and transported to the site and installed on dedicated foundations. The initial BESS installation would include approximately 67 BESS containers and would be capable of charging and discharging up to 160 megawatts alternating current (MWac)/320 megawatt-hours (MWh). Each BESS container would be approximately 29 feet in length, 9.5 feet in height, and 7 feet wide and contain the integrated battery modules, power control system (PCS), as well as heat, fire protection, and safety management systems, including electrical and mechanical controls; ventilation systems; heating, ventilation, and air condition (HVAC) system; fire alarm detection; and heat management systems. Low voltage cables (480v) from the BESS containers would connect the low-profile pad-inverter/transformers located adjacent to each BESS container in a skid configuration stepping up the BESS system voltage to 34.5kV. 34.5kV medium voltage (MV) cables would connect the BESS transformers to MV switchgear (34.5kV) prior to going to the Project's 34.5KV to 115kV substation.

The BESS will be designed, constructed, and operated in accordance with applicable California Building Code, the CFC (including Section 1207 for Energy Storage Systems), and relevant NFPA standards (e.g., NFPA 855, 72, 69, 22), including requirements for product listings, large-scale fire testing, seismic/structural design, spacing and vehicle-impact protection, inspection/testing/maintenance,

battery management system (BMS) monitoring, emergency shutdown and notification, detection/deflagration controls, and reliable power to critical safety systems. Cabinet-type BESS will be listed to UL 9540 (energy storage systems), with fire-propagation testing per Underwriters Laboratories (UL) 9540A including "large scale fire testing." Large-scale fire testing is a critical safety feature to ensure any failures do not extend beyond a single enclosure. Battery assemblies will be evaluated to UL 1973, and inverters to UL 1741. Large-scale fire-test data and listings are intended to demonstrate that a fire is not expected to propagate beyond a single enclosure under test conditions (which are designed to mimic real life conditions), including without active suppression, and that adjacent exposures are protected.

Lithium-ion BESS systems generally degrade at a rate of 2 to 3 percent per year. In order to maintain the initial BESS capacity over the Project life, new BESS containers will be added approximately every 5 years to the Project. Augmentation would occur within designated BESS areas shown on the site plans and would maintain, but not exceed, the total approved storage capacity under the CUP.

A 250 gallon per minute (GPM) or greater agricultural water well or surface water pump with approximately 20,000 to 30,000-gallon capacity onsite water storage tank(s) will be installed on Parcel 1 near the BESS location for fire protection. A 50-kW standby generator would act as a backup power supply to the Project communications and control house in the substation. Additionally, a 250-kW backup generator would be provided to run the existing on-site agricultural well for fire/water supply. The generator would be Tier 4 emissions rated.

A 34.5kV to 115kV Project substation would be constructed on Parcel 1 to connect the solar PV and BESS Project to the existing adjacent Turlock Irrigation District 115kV Westley substation. Within the existing Westley 115kV substation, the existing Turlock Irrigation District Marshall Line will be relocated to a new position, thereby freeing the existing Marshall Line position located between breakers for the Project. The relocated Marshall Line will exit the Westley substation to the south, utilizing the existing H-frame structure. To accommodate the new breaker position, the bus section adjacent will be extended north to facilitate jumper connections to the Marshall Line. Approximately 500 feet of the Marshall Line will be rerouted from its existing alignment, and approximately two new poles, each of which would be up to 80 feet tall, will be constructed to support the relocated line configuration. Currently, no underground utilities or easements (including but not limited to electric lines, gas lines, water lines, communication lines, and sewer lines) are known to exist within the area proposed for substation upgrades.

The proposed 0.2-mile 115kV gen-tie will route from the Project's substation to the Westley substation. This transmission line will consist of steel monopole structures, all aluminum conductors, shield wire, and optical ground wire for communications. The Project substation will include two to three 34.5kV to 115kV transformers in addition to 34.5kV and 115kV breakers and other medium and

high voltage equipment. A control center enclosure will also be located on Parcel 1 in the substation area. The substation would be approximately 50 feet in height.

Access and Circulation

The primary entrances to the Project site would be located along Howard Road on Parcel 10, just south of the existing truck stop via a 24-foot wide gated driveway. Two additional, gated entrances would be located along Howard Road. One on Parcel 9 just east of the California Aqueduct, which would provide access to the central portion of the Project site, and the second at the southeast corner of Parcel 13, which would provide access to the north portion of the Project site. Three emergency vehicle access (EVA) routes are proposed. EVA Route 1 is provided via the primary entrance to the Project site, EVA Route 2 is provided via an entrance on Needham Road via Kern Creek Road (a private road), and EVA 3 is provided via the access for the northern portion of the Project site off Howard Road. Interior roads will allow EVA through the entire Project site as shown in Figure 3. Additionally, the Applicant proposes a 20-foot-wide EVA perimeter road around the Project site.

Fencing and Landscaping

The proposed Project would include a seven-foot chain link fence around the perimeter of the Project site. The Project would also include an eight-foot chain link fence around the perimeter of the approximately 15-acre substation and BESS facility. The substation and BESS facility will also include a 24-foot-wide emergency vehicle access gate and 20-foot emergency vehicle access road. All other vegetation on the Project site would be completely removed from the areas containing the solar panel and BESS facilities. The Project Site will include a 10-foot-wide landscaping strip of drought tolerant evergreen trees or shrubs along I-5 and Howard Road.

Avoidance Areas

Across the Project site there are existing drainage easements held by the State of California for the DWR as well as Caltrans. These drainage easements are in place to manage storm water drainage produced by I-5 and storm water management around and through the California Aqueduct. Additionally, there is a small seasonal wetland that has been identified along the California Aqueduct on Parcel 10. These areas are included in the Project site acreage; however, these areas will be avoided.

Construction

Project construction activities generally fall into three main categories: (1) site preparation and demolition; (2) grading; and (3) construction/installation. Project pre-construction site activities would include demolition of the existing structures on the Project site and removal of crops and vegetation. Project construction is expected to commence as one phase over an 18-month period.

The primary site access point and laydown yard during construction for all circulation and parking will be off Howard Road for all portions of the Project site.

Approximately 120 cubic yards of soil would be exported to Kettleman Hills Facility as part of a Soil Management Plan. The remainder of the earthwork (approximately 219,880 cubic yards) would be balanced on-site. It is anticipated that non-potable or onsite surface or ground water would be required for common construction-related purposes included but not limited to dust suppression, soil compaction, and grading. Water during construction will be drawn from the on-site agricultural water wells or surface water pumps. Up to 240 AF of water (approximately 0.85 AF per day) would be required during construction.

The on-site construction workforce is estimated to peak at approximately 100 individuals; however, the average daily workforce of on-site construction, supervisory, support, and construction management personnel on-site is expected to be between approximately 5 and 25 individuals. Construction would primarily occur during daylight hours between 7:00 a.m. and 6:59 p.m. pursuant to the County's noise standards provided in Chapter 10.46, as required to meet the construction schedule. Any construction work performed outside of the normal work schedule would be subject to pre-approval by the County.

Operation

Operation of the facility will be done remotely through control of inverters, PCSs and on-site equipment through a secure SCADA fiber network system. Two to four employees are expected to visit the Project site for routine maintenance on the solar PV and BESS facilities in addition to washing of PV panels up to four times per year for two weeks at a time. Filtered water from on-site wells or surface water are proposed to be used for washing the PV panels. Water would also be utilized to maintain landscaping on the Project Site. Up to 25 AFY of water would be required during operations across the four panel washing sessions.

Due to the critical infrastructure nature of the Project in the region, security cameras will be installed throughout the Project site and monitored 24/7, specifically around the BESS and substation facilities. During construction two to three security guards will patrol the Project site and provide 24/7 security.

3.0 Required Approvals and Permits

The required discretionary approvals and permits and the approving agency for the Project are identified below. Eight parcels totaling approximately 544.83 acres within the Project area (Parcels 1, 7, 8, 9, 10, 11, 12, and 13) are enrolled under active Williamson Act Contracts; however, because the Project applicant has requested a Tier 3 Use Permit, which prohibits the Project site from being enrolled in a contract, a Williamson Act Cancellation for the approximately 544.83 acres is included as part of the Project.

Stanislaus County

- Approval of Tier 3 Use Permit (Application No. PLN2025-0007)
- Approval of Williamson Act Cancellation (Parcels 1, 7, 8, 9, 10, 11, 12 and 13)

Other Permits and Approvals

The Project will be required to obtain an encroachment permit from the DWR for the two 34.5 kW overhead distribution lines proposed to cross the California Aqueduct. Lastly, three radial existing PG&E overhead distribution power lines serving existing infrastructure on the Project site with be removed across Parcels 7, 8, 9, 10, and 12.

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
1010 10TH Street, Suite 3400, Modesto, CA 95354
Planning Phone: (209) 525-6330 Fax: (209) 525-5911
Building Phone: (209) 525-6557 Fax: (209) 525-7759
Form Available Online: http://www.stancounty.com/planning/applications.shtm

APPLICATION QUESTIONNAIRE

Please Check all applicable boxes

APPLICATION FOR:

Staff is available to assist you with determining which applications are necessary

- ☐ General Plan Amendment
- ☐ Rezone
- ☒ Use Permit
- ☐ Variance
- ☐ Historic Site Permit
- ☐ Subdivision Map
- ☐ Parcel Map
- ☐ Exception
- ☒ Williamson Act Cancellation
- ☐ Other _____

PLANNING STAFF USE ONLY:

Application No(s): _____
Date: _____
S _____ **T** _____ **R** _____
GP Designation: _____
Zoning: _____
Fee: _____
Receipt No. _____
Received By: _____
Notes: _____

In order for your application to be considered COMPLETE, please answer all applicable questions on the following pages, and provide all applicable information listed on the checklist on pages i – v. Under State law, upon receipt of this application, staff has 30 days to determine if the application is complete. We typically do not take the full 30 days. It may be necessary for you to provide additional information and/or meet with staff to discuss the application. Pre-application meetings are not required, but are highly recommended. An incomplete application will be placed on hold until all the necessary information is provided to the satisfaction of the requesting agency. An application will not be accepted without all the information identified on the checklist.

Please contact staff at (209) 525-6330 to discuss any questions you may have. Staff will attempt to help you in any way we can.

PROJECT INFORMATION

PROJECT DESCRIPTION: (Describe the project in detail, including physical features of the site, proposed improvements, proposed uses or business, operating hours, number of employees, anticipated customers, etc. – Attach additional sheets as necessary)

Please note: A detailed project description is essential to the reviewing process of this request. In order to approve a project, the Planning Commission or the Board of Supervisors must decide whether there is enough information available to be able to make very specific statements about the project. These statements are called "Findings". It is your responsibility as an applicant to provide enough information about the proposed project, so that staff can recommend that the Commission or the Board make the required Findings. Specific project Findings are shown on pages 17 – 19 and can be used as a guide for preparing your project description. (If you are applying for a Variance or Exception, please contact staff to discuss special requirements).

Please See Attached REVISED Project Description.

PROJECT SITE INFORMATION

Complete and accurate information saves time and is vital to project review and assessment. Please complete each section entirely. If a question is not applicable to your project, please indicated this to show that each question has been carefully considered. Contact the Planning & Community Development Department Staff, 1010 10th Street – 3rd Floor, (209) 525-6330, if you have any questions. Pre-application meetings are highly recommended.

ASSESSOR'S PARCEL NUMBER(S): Book_____ Page_____ Parcel_____

Additional parcel numbers: Parcel 1: 021-015-021; Parcel 2: 021-015-025; Parcel 3: 021-015-024;

Project Site Address or Physical Location: Parcel 4: 021-015-026; Parcel 5: 021-015-023; Parcel 6: 021-013-018;

Parcel 7: 021-013-020; Parcel 8: 021-013-001; Parcel 9: 021-007-008;

Parcel 10: 021-007-009
Parcel 11: 016-037-038
Parcel 12: 016-037-039
Parcel 13: 016-037-037

Property Area: Acres: ~738.62 or Square feet: _____

Current and Previous Land Use: (Explain existing and previous land use(s) of site for the last ten years)

Agricultural (orchards)

List any known previous projects approved for this site, such as a Use Permit, Parcel Map, etc.: (Please identify project name, type of project, and date of approval)

Existing General Plan & Zoning: General AG 40 (A-2-40)

Proposed General Plan & Zoning: No Change
(if applicable)

ADJACENT LAND USE: (Describe adjacent land uses within 1,320 feet (1/4 mile) and/or two parcels in each direction of the project site)

East: Agriculture

West: Agriculture, Planned Development

North: Agriculture

South: Agriculture

WILLIAMSON ACT CONTRACT:

Yes ☒ **No** ☐

Is the property currently under a Williamson Act Contract?
Contract Number: 77-2907 and 72-1020

If yes, has a Notice of Non-Renewal been filed?

Date Filed: In process

Yes ☒ **No** ☐ Do you propose to cancel any portion of the Contract?

Yes ☐ **No** ☒ Are there any agriculture, conservation, open space or similar easements affecting the use of the project site. (Such easements do not include Williamson Act Contracts)

If yes, please list and provide a recorded copy: _____

_____

SITE CHARACTERISTICS: (Check one or more) Flat ☒ Rolling ☐ Steep ☐

VEGETATION: What kind of plants are growing on your property? (Check one or more)

Field crops ☐ Orchard ☒ Pasture/Grassland ☐ Scattered trees ☐

Shrubs ☐ Woodland ☐ River/Riparian ☐ Other ☐

Explain Other: _____

Yes ☒ **No** ☐ Do you plan to remove any trees? (If yes, please show location of trees planned for removal on plot plan and provide information regarding transplanting or replanting.)

GRADING:

Yes ☒ **No** ☐ Do you plan to do any grading? (If yes, please indicate how many cubic yards and acres to be disturbed. Please show areas to be graded on plot plan.) _____

220,000 cubic yards of earthwork movement

STREAMS, LAKES, & PONDS:

Yes ☒ **No** ☐ Are there any streams, lakes, ponds or other watercourses on the property? (If yes, please show on plot plan)

Yes ☒ **No** ☐ Will the project change any drainage patterns? (If yes, please explain – provide additional sheet if needed) _____

Modeling and analysis to be provided in a Preliminary Drainage Report

Yes ☐ **No** ☒ Are there any gullies or areas of soil erosion? (If yes, please show on plot plan)

Yes ☐ **No** ☒ Do you plan to grade, disturb, or in any way change swales, drainages, ditches, gullies, ponds, low lying areas, seeps, springs, streams, creeks, river banks, or other area on the site that carries or holds water for any amount of time during the year? (If yes, please show areas to be graded on plot plan)

Please note: If the answer above is yes, you may be required to obtain authorization from other agencies such as the Corps of Engineers or California Department of Fish and Wildlife.

STRUCTURES:

Yes ☒ **No** ☐ Are there structures on the site? (If yes, please show on plot plan. Show a relationship to property lines and other features of the site.

Yes ☒ **No** ☐ Will structures be moved or demolished? (If yes, indicate on plot plan.) See Project Description re: Parcel 8 and 12 demolition

Yes ☒ **No** ☐ Do you plan to build new structures? (If yes, show location and size on plot plan.)

Yes ☐ **No** ☒ Are there buildings of possible Historical significance? (If yes, please explain and show location and size on plot plan.) _____

PROJECT SITE COVERAGE:

Existing Building Coverage: _____ Sq. Ft.

Landscaped Area: _____ Sq. Ft.

Proposed Building Coverage: _____ Sq. Ft.

Paved Surface Area: _____ Sq. Ft.

BUILDING CHARACTERISTICS:

Size of new structure(s) or building addition(s) in gross sq. ft.: (Provide additional sheets if necessary) Proposed solar array encompassing 515 acres and Battery Energy Storage System and substation encompassing 7 acres

Number of floors for each building: No new buildings proposed

Building height in feet (measured from ground to highest point): (Provide additional sheets if necessary) _____

Height of other appurtenances, excluding buildings, measured from ground to highest point (i.e., antennas, mechanical equipment, light poles, etc.): (Provide additional sheets if necessary) Solar array is approximately 12 ft from grade at full tilt. BESS approximately 11 ft. Substation approximately 50 ft with transmission poles up to 100 ft

Proposed surface material for parking area: (Provide information addressing dust control measures if non-asphalt/concrete material to be used) Proposed surface material for parking area: road base/gravel. Some primary areas may be concrete or asphalt.

UTILITIES AND IRRIGATION FACILITIES:

Yes ☒ **No** ☐ Are there existing public or private utilities on the site? Includes telephone, power, water, etc. (If yes, show location and size on plot plan)

Who provides, or will provide the following services to the property?

Electrical: Turlock Irrigation District; PG&E

Sewer*: Private

Telephone: AT&T

Gas/Propane: PG&E

Water**: Private

Irrigation: Del Puerto Water District

***Please Note: A "will serve" letter is required if the sewer service will be provided by City, Sanitary District, Community Services District, etc.**

****Please Note: A "will serve" letter is required if the water source is a City, Irrigation District, Water District, etc., and the water purveyor may be required to provide verification through an Urban Water Management Plan that an adequate water supply exists to service your proposed development.**

Will any special or unique sewage wastes be generated by this development other than that normally associated with resident or employee restrooms? Industrial, chemical, manufacturing, animal wastes? (Please describe:)

Please Note: Should any waste be generated by the proposed project other than that normally associated with a single-family residence, it is likely that Waste Discharge Requirements will be required by the Regional Water Quality Control Board. Detailed descriptions of quantities, quality, treatment, and disposal may be required.

Yes ☒ **No** ☐ Are there existing irrigation, telephone, or power company easements on the property? (If yes, show location and size on plot plan.)

Yes ☒ **No** ☐ Do the existing utilities, including irrigation facilities, need to be moved? (If yes, show location and size on plot plan.) Overhead power lines will be removed on a portion of the site as noted on the site plan.

Yes ☐ **No** ☒ Does the project require extension of utilities? (If yes, show location and size on plot plan.)

AFFORDABLE HOUSING/SENIOR:

Yes ☐ **No** ☒ Will the project include affordable or senior housing provisions? (If yes, please explain)

RESIDENTIAL PROJECTS: (Please complete if applicable – Attach additional sheets if necessary)

Total No. Lots:_____ Total Dwelling Units:_____ Total Acreage:_____

Net Density per Acre: _____ Gross Density per Acre: _____

(complete if applicable)	Single Family	Two Family Duplex	Multi-Family Apartments	Multi-Family Condominium/ Townhouse
Number of Units:				
Acreage:				

COMMERCIAL, INDUSTRIAL, MANUFACTURING, RETAIL, USE PERMIT, OR OTHER PROJECTS: (Please complete if applicable – Attach additional sheets if necessary)

Square footage of each existing or proposed building(s): _____

Type of use(s): Utilities, renewable energy generation and storage

Days and hours of operation: 24/7 unmanned solar facility and energy storage facility

2-4 employees expected to visit for routine maintenance and panel washing up to 4 times per year

Seasonal operation (i.e., packing shed, huller, etc.) months and hours of operation: N/A

Occupancy/capacity of building: N/A

Number of employees: (Maximum Shift): 4 (Minimum Shift): 2

Estimated number of daily customers/visitors on site at peak time: 4

Other occupants: N/A

Estimated number of truck deliveries/loadings per day: 0

Estimated hours of truck deliveries/loadings per day: 0

Estimated percentage of traffic to be generated by trucks: 0

Estimated number of railroad deliveries/loadings per day: 0

Square footage of:

Office area: N/A Warehouse area: N/A

Sales area: N/A Storage area: N/A

Loading area: N/A Manufacturing area: N/A

Other: (explain type of area) Solar array XX acres; BESS and Substation XX acres

Yes ☐ **No** ☒ Will the proposed use involve toxic or hazardous materials or waste? (Please explain)

ROAD AND ACCESS INFORMATION:

What County road(s) will provide the project's main access? (Please show all existing and proposed driveways on the plot plan)

Needham Road and Howard Road

Yes ☒ **No** ☐ Are there private or public road or access easements on the property now? (If yes, show location and size on plot plan)

Yes ☐ **No** ☒ Do you require a private road or easement to access the property? (If yes, show location and size on plot plan)

Yes ☒ **No** ☐ Do you require security gates and fencing on the access? (If yes, show location and size on plot plan)

Please Note: Parcels that do not front on a County-maintained road or require special access may require approval of an Exception to the Subdivision Ordinance. Please contact staff to determine if an exception is needed and to discuss the necessary Findings.

STORM DRAINAGE:

How will your project handle storm water runoff? (Check one) ☒ Drainage Basin ☐ Direct Discharge ☐ Overland

☐ Other: (please explain) _____

If direct discharge is proposed, what specific waterway are you proposing to discharge to? _____

Please Note: If direct discharge is proposed, you will be required to obtain a NPDES permit from the Regional Water Quality Control Board, and must provide evidence that you have contacted them regarding this proposal with your application.

EROSION CONTROL:

If you plan on grading any portion of the site, please provide a description of erosion control measures you propose to implement.

Grading and erosion control plan will be prepared by Civil Engineer

Please note: You may be required to obtain an NPDES Storm Water Permit from the Regional Water Quality Control Board and prepare a Storm Water Pollution Prevention Plan.

ADDITIONAL INFORMATION:

Please use this space to provide any other information you feel is appropriate for the County to consider during review of your application. (Attach extra sheets if necessary)

The Project will be directly connected to the existing adjacent Turlock Irrigation District (TID) 115kV-230kV Westley Substation. The renewable energy generated and stored by the facility will be delivered directly to TID providing TID and the local communities in Stanislaus County with renewable clean energy.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - STORM WATER PERMIT REQUIREMENTS

Storm water discharges associated with construction activity are a potentially significant source of pollutants. The most common pollutant associated with construction is sediment. Sediment and other construction related wastes can degrade water quality in creeks, rivers, lakes, and other water bodies. In 1992, the State Water Resources Control Board adopted a statewide General Permit for all storm water discharges associated with construction activity that disturbs five or more acres of land. Effective March 10, 2003, all construction sites disturbing one or more acres of land will be required to obtain permit coverage. The General Permit is intended to ensure that construction activity does not impact water quality.

You need to obtain General Permit coverage if storm water discharges from your site and either of the following apply:

- Construction activities result in one or more acres of land disturbance, including clearing, grading, excavating, staging areas, and stockpiles or;
- The project is part of a larger common plan of development or sale (e.g., subdivisions, group of lots with or without a homeowner's association, some lot line adjustments) that result in one or more acres of land disturbance.

It is the applicant's responsibility to obtain any necessary permit directly from the California Regional Water Quality Control Board. The applicant(s) signature on this application form signifies an acknowledgment that this statement has been read and understood.

STATE OF CALIFORNIA HAZARDOUS WASTE AND SUBSTANCES SITES LIST (C.G.C. § 65962.5)

Pursuant to California Government Code Section 65962.5(e), before a local agency accepts as complete an application for any development project, the applicant shall consult the latest State of California Hazardous Waste and Substances Sites List on file with the Planning Department and submit a signed statement indicating whether the project is located on a site which is included on the List. The List may be obtained on the California State Department of Toxic Substances Control web site (http://www.envirostor.dtsc.ca.gov/public).

The applicant(s) signature on this application form signifies that they have consulted the latest State of California Hazardous Waste and Substances List on file with the Planning Department, and have determined that the project site ☐ **is or** ☒ **is not** included on the List.

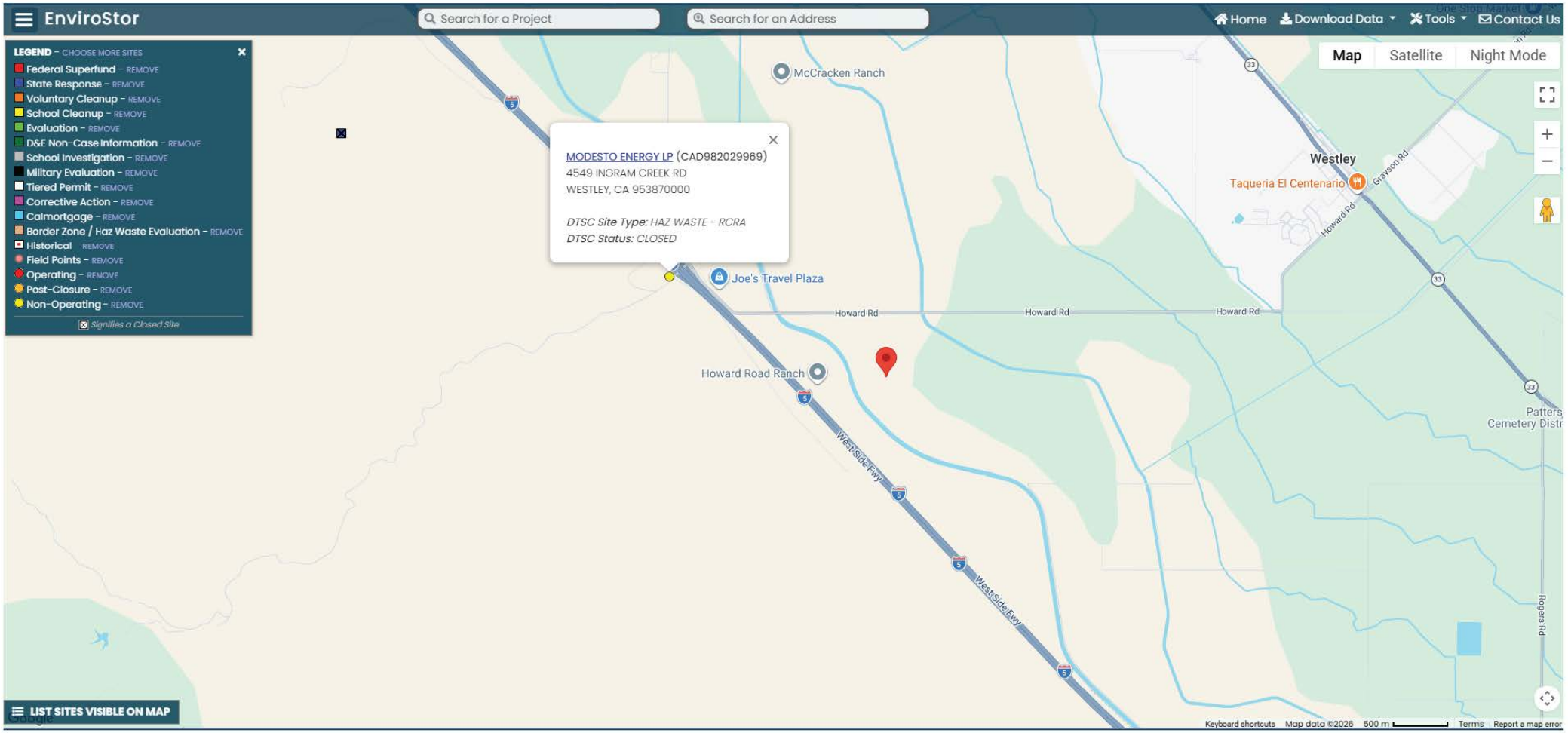
Date of List consulted: August 25, 2026

Source of the listing: No site listed. See attached EnviroStor snapshot.

(To be completed only if the site is included on the List)

ASSESSOR'S INFORMATION WAIVER

The property owner(s) signature on this application authorizes the Stanislaus County Assessor's Office to make any information relating to the current owners assessed value and pursuant to R&T Code Sec. 408, available to the Stanislaus County Department of Planning and Community Development.


EnviroStor
Search for a Project
Search for an Address
Home
Download Data
Tools
Contact Us
LEGEND – CHOOSE MORE SITES
Federal Superfund – REMOVE
State Response – REMOVE
Voluntary Cleanup – REMOVE
School Cleanup – REMOVE
Evaluation – REMOVE
D&E Non-Case Information – REMOVE
School Investigation – REMOVE
Military Evaluation – REMOVE
Tiered Permit – REMOVE
Corrective Action – REMOVE
Calmortgage – REMOVE
Border Zone / Haz Waste Evaluation – REMOVE
Historical REMOVE
Field Points – REMOVE
Operating – REMOVE
Post-Closure – REMOVE
Non-Operating – REMOVE
Signifies a Closed Site
MODESTO ENERGY LP (CAD982029969)
4549 INGRAM CREEK RD
WESTLEY, CA 953870000
DTSC Site Type: HAZ WASTE - RCRA
DTSC Status: CLOSED
Map
Satellite
Night Mode
McCracken Ranch
Westley
Taqueria El Centenario
Grayson Rd
Howard Rd
Joe's Travel Plaza
Howard Road Ranch
West Side Fwy
Rogers Rd
LIST SITES VISIBLE ON MAP
Keyboard shortcuts
Map data ©2026
500 m
Terms
Report a map error

Blackrock Environmental

September 28, 2026

Sydney Marschalk
Project Planner
Elevated Entitlements
280 E. Thousand Oaks Blvd. Suite H
Thousand Oaks, CA 91360

RE: Updated Biological Resources Assessment for the Proposed Hondeville Energy Center Project in Stanislaus County, CA

Blackrock Environmental previously prepared an assessment of biological resources on the Hondeville Energy Center Project (project) site and the potential for the proposed project to affect these resources. Specifically, this document addresses any potential impacts to federal and state listed threatened or endangered species, describes the onsite vegetation communities, and identifies any potential jurisdictional waters of the U.S. This Biological Resources Assessment also analyzes the potential for wildlife movement on the project site and the proposed project's consistency with local policies and ordinances that protect biological resources.

The project site is located near the community of Westley, in unincorporated Stanislaus County at 3348 Howard Road. The site occurs on the Westley 7.5' United States Geological Survey (USGS) Quadrangle and is composed of approximately 736.6 acres (Figure 1 – Appendix A). The project site is broken into three primary areas consisting of the southern portion, central portion and northern portion. The southern portion of the project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east.

The topography of the site is mostly flat agricultural land with sloped areas that occur in association with the California Aqueduct and small section of the Delta Mendota Canal. Existing structures on the project site include a modular home, agricultural structure, and small solar array, as well as a small structure / mobile home and outdoor vehicle/equipment storage area. Primary harvest seasons are currently May through June for the cherry and apricot crops and August through October for the almond crops. The project site is in the Del Puerto Water District and is currently irrigated by groundwater and surface water available through the Del Puerto Water District. Deep wells, irrigation pumps, a new irrigation reservoir, and two detention basins are located on the project site.

Proposed Project Overview

Development of the project would include the demolition of the existing structures and the development of a utility-scale single-axis tracking solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility. The single-axis tracking solar PV electricity generation (solar panel) component of the project would be sized to produce 130 megawatt alternating current (MWac). Depending on the ultimate type of module selected, the total height of the solar panels measured from the ground surface would be between 4 feet and 6 feet when the array is in a flat orientation to 12 feet when the array is in a tilted orientation to the east or west.

The project would also include the construction of two 34.5 kilowatt (kW) overhead distribution lines in a single crossing location across the California Aqueduct to interconnect with the southern and central portions of the project site. The distribution line and associated towers on each side of the aqueduct are expected to be approximately 100 feet tall and span the entire Aqueduct and be shorter than the existing electric transmission line towers currently on the project site.

The project would also include the construction of one or two 34.5 kW underground high voltage distribution lines in a single crossing location across Howard Road to interconnect with the central and northern portions of the project site. The underground distribution line(s) are expected to be approximately 100 to 200 feet in length and be placed a minimum of 3 to 4 feet below grade. The underground crossing will not interfere with Howard Road.

The BESS component of the project would be comprised of lithium-ion battery modules housed in racks within non-walk-in outdoor enclosures (BESS containers) on the southernmost portion of the project site. The initial BESS installation would include approximately 67 BESS containers and would be capable of charging and discharging up to 160 megawatts alternating current (MWac)/320 megawatt-hours (MWh). Each BESS container would be approximately 29 feet in length, 9.5 feet in height, and 7 feet wide. Low voltage cables (480v) from the BESS containers would connect the low-profile pad-inverter/transformers located adjacent to each BESS container in a skid configuration stepping up the BESS system voltage to 34.5kV. 34.5kV medium voltage (MV) cables would connect the BESS transformers to MV switchgear (34.5kV) prior to going to the Project's 34.5KV to 115kV substation.

The initial project BESS nameplate installation size of 160 MWac/320 MWh and BESS containers for augmentation will result in a total project BESS nameplate installation size of approximately 225 MWac/450 MWh. While the nameplate BESS system size will increase over time to account for BESS losses, the BESS will never charge or discharge more than 130 MWac over the project life.

An agricultural water well or surface water pump with approximately 20,000 to 30,000-gallon capacity onsite water storage tank(s) will be installed on Parcel 1 near the BESS location for fire protection. A 50-kW standby generator would act as a backup power supply to the project communications and control house in the substation. Additionally, a 250-kW backup generator would be provided to run the existing on-site agricultural well for fire/water supply. The generator would be Tier 4 emissions rated. A 100-gallon diesel fuel above-ground storage tank would be

included as part of the project's BESS facilities to meet fire safe requirements of having reliable backup power for water supplies.

A 34.5kV to 115kV project substation would be constructed on Parcel 1 to connect the solar PV and BESS Project to the existing adjacent Turlock Irrigation District 115kV Westley substation. The Project substation will include two to three transformers in addition to breakers and other medium and high voltage equipment. A control center enclosure will also be located on Parcel 1 in the substation area. The substation would be approximately 50 feet in height.

The primary entrances to the project site would be located along Howard Road on Parcel 10, just south of the existing truck stop via a 24-foot wide gated driveway. Two additional, gated entrances would be located along Howard Road.

The proposed project would include a seven-foot chain link fence around the perimeter of the project site. The project would also include an eight-foot chain link fence around the perimeter of the approximately 15-acre substation and BESS facility. All other vegetation on the Project site would be completely removed from the areas containing the solar panel and BESS facilities

Across the project site, there are existing drainage easements held by the State of California for the DWR as well as Caltrans. These drainage easements are in place to manage storm water drainage produced by I-5 and storm water management around and through the California Aqueduct. Additionally, there is a small seasonal wetland that has been identified along the California Aqueduct on Parcel 10. These areas are included in the project site acreage; however, these areas will be avoided, and infrastructure will be placed within these areas.

Project construction is expected to commence as one phase over an 18-month period beginning in May 2027 and completing in October 2028. The primary site access point and laydown yard during construction for all circulation and parking will be off Howard Road for all portions of the project site.

REGULATORY BACKGROUND

Federal Endangered Species Act

The United States Fish and Wildlife Service (USFWS) has jurisdiction over species listed as threatened or endangered under the federal Endangered Species Act (FESA). Section 9 of FESA protects listed species from "take", which is broadly defined as actions taken to, "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct," (USFWS). FESA protects threatened and endangered plants and animals and their critical habitat. Candidate species are those proposed for listing; these species are usually treated by resource agencies as if they were actually listed during the environmental review process.

Procedures for addressing impacts to federally listed species follow two principal pathways, both of which require consultation with the USFWS, which administers the FESA for all terrestrial species. The first pathway is the Section 10(a) incidental take permit, which applies to situations where a non-federal government entity must resolve potential adverse impacts to species

protected under FESA. The second pathway is Section 7 consultation, which applies to projects directly undertaken by a federal agency or private projects requiring a federal permit or approval.

Federal Migratory Bird Treaty Act

The federal Migratory Bird Treaty Act (MBTA) implements international treaties between the U.S. and other nations devised to protect migratory birds, their parts, eggs, and nests from activities such as hunting, pursuing, capturing, killing, selling, and shipping, unless expressly authorized in the regulations or by permit. The State of California has incorporated the protection of birds of prey in Sections 3800, 3513, and 3503.5 of the state Fish and Game Code (FGC). All raptors and their nests are protected from take or disturbance under the MBTA (16 United States Code [USC], Section 703, et seq.) and California statute (FGC Section 3503.5). The golden eagle (*Aquila chrysaetos*) and bald eagle (*Haliaeetus leucocephalus*) are also afforded additional protection under the Bald and Golden Eagle Protection Act, amended in 1973 (16 USC, Section 669, et seq.).

Federal Bald and Golden Eagle Protection Act

With few exceptions, this act (16 USC 668–668d) prohibits take of bald eagles and golden eagles. Unlike the MBTA, which defines "take" to mean only direct killing or taking of birds or their body parts, eggs, and nests, the Bald and Golden Eagle Protection Act defines take in a manner similar to FESA as including "pursuing, shooting, shooting at, poisoning, wounding, killing, capturing, trapping, collecting, molesting, and disturbing," with "disturb" further defined (50 CFR 22.3) as ''to agitate or bother a Bald or Golden Eagle to a degree that causes, or is likely to cause, based on the best scientific information available; (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior.'' Therefore, the requirements for guarding against impacts on eagles generally are far more stringent than those required by the MBTA alone.

Federal Clean Water Act

The United States Army Corps of Engineers (USACE) and the United States Environmental Protection Agency (USEPA) regulate the discharge of dredged or fill material into waters of the U.S., including wetlands, under Sections 10 and 404 of the federal Clean Water Act (CWA). The USACE has established a series of nationwide permits (NWPs) that authorize certain activities in waters of the United States, if a proposed activity can demonstrate compliance with standard conditions. Normally, the USACE requires an individual permit (IP) for an activity that will affect (fill or otherwise remove) an area more than 0.5-acre of waters of the United States. Projects that result in impacts less than 0.5 acre can typically be conducted pursuant to one of the nationwide permits, if they are consistent with the standard permit conditions. The USACE also has discretionary authority to require an environmental document (e.g. Environmental Impact Statement [EIS] or Environmental Assessment [EA]) for projects that result in impacts on an area between 0.1 and 0.5 acre and above 0.5-acre.

Waters of the U.S. include wetlands, lakes, and rivers, streams, and their tributaries. Wetlands that fall under the jurisdiction of the USACE (referred to as jurisdictional wetlands) are defined as areas "inundated or saturated by surface or groundwater at a frequency and duration sufficient to

support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Areas not considered jurisdictional waters include, for example, non-tidal drainage and irrigation ditches excavated on dry land; artificially irrigated or created bodies such as small ponds, lakes or swimming pools; and water-filled depressions (33 CFR 328.3; 40 CFR 230.3).

Project proponents must obtain a permit from USACE for all discharges of fill material into waters of the U.S., including jurisdictional wetlands, before proceeding with a proposed action. If wetlands are jurisdictional and could be filled as part of the project, USACE may issue either an individual permit or a general permit. Individual permits are prepared on a project-specific basis for projects that are expected to have adverse effects on the aquatic environment. General permits are pre-authorized permits issued to cover similar activities that are expected to cause only minimal individual and cumulative adverse environmental effects.

A Section 404 permit may not be required if the project avoids the discharge of any fill material into waters of the U.S., including wetlands. If the project cannot be designed to avoid the discharge of fill or excavating in waters of the U.S., including wetlands, a Section 404 permit must be obtained.

The CWA requires any applicant for a federal license or permit to conduct any activity that may result in a discharge of a pollutant into waters of the U.S. to obtain a certification that the discharge will comply with the applicable effluent limitations and water quality standards. The appropriate Regional Water Quality Control Board (RWQCB) regulates Section 401 requirements.

California Endangered Species Act

Under the state of California Endangered Species Act (CESA), the state of California Department of Fish and Wildlife (CDFW) has the responsibility for maintaining a list of endangered and threatened species (FGC § 2070). Sections 2050 through 2098 of the California Fish and Game Code (CFGC) outline the protection provided to California's rare, endangered, and threatened species. Section 2080 of the FGC prohibits the taking of plants and animals listed under the CESA. Section 2081 established an incidental take permit program for state listed species. The CDFW maintains a list of "candidate species," which it formally notices as being under review for addition to the list of endangered or threatened species. In addition, the Native Plant Protection Act of 1977 (FGC Section § 1900, *et seq*.) prohibits taking, possessing, or sale within the State of any plants with a state designation of rare, threatened, or endangered (as defined by CDFW). An exception to this prohibition in the Native Plant Protection Act allows landowners, under specified circumstances, to take listed plant species, provided that the owners first notify CDFW and give that state agency at least 10 days to come and retrieve (and presumably replant) the plants before they are plowed under or otherwise destroyed. (FGC Section 1913 exempts from "take" prohibition "the removal of endangered or rare native plants from a canal, lateral ditch, building site, or road, or other right of way.") Project impacts to these species are not considered significant unless the species are known to have a high potential to occur within the area of disturbance associated with construction of a proposed project.

CDFW also maintains lists of "Species of Special Concern" that serve as species "watch lists." The CDFW has identified many Species of Special Concern. Species with this status have limited

distribution or the extent of their habitat has been reduced substantially, such that their populations may be threatened. Thus, their populations are monitored, and they may receive special attention during environmental review. While they do not have statutory protection, they may be considered rare under the state of California Environmental Quality Act (CEQA) and thereby warrant specific protection measures.

Sensitive species that would qualify for listing but are not currently listed are afforded protection under CEQA. CEQA Guidelines Section 15065 (Mandatory Findings of Significance) requires that a substantial reduction in numbers of rare or endangered species be considered a significant effect. CEQA Guidelines Section 15380 (Rare or Endangered Species) provides for assessment of unlisted species as rare or endangered under CEQA if the species can be shown to meet the criteria for listing. Unlisted plant species on the California Native Plant Society's (CNPS's) Lists 1A, 1B, and 2 would typically be considered under CEQA.

Sections 3500 to 5500 of the FGC outline protection for fully protected species of mammals, birds, reptiles, amphibians, and fish. Species that are fully protected by these sections may not be taken or possessed at any time. The CDFW cannot issue permits or licenses that authorize the take of any fully protected species, except under certain circumstances such as scientific research and live capture and relocation of such species pursuant to a permit for the protection of wildlife.

Under Section 3503.5 of the FGC, it is unlawful to take, possess, or destroy any birds in the orders of *Falconiformes* or *Strigiformes* (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto. To comply with the requirements of CESA, an agency reviewing a proposed project within its jurisdiction must determine whether any state-listed endangered or threatened species may be present in the project study area and determine whether the proposed project will have a potentially significant impact on such species. In addition, CDFW encourages informal consultation on any proposed project that may impact a candidate species.

Project-related impacts to species on the CESA endangered or threatened list would be considered significant. State-listed species are fully protected under the mandates of the CESA. "Take" of protected species incidental to otherwise lawful management activities may be authorized under FGC Section 206.591. Authorization from CDFW would be in the form of an Incidental Take Permit.

Section 1602 of the FGC requires any entity to notify CDFW before beginning any activity that "may substantially divert or obstruct the natural flow of or substantially change or use any material from the bed, channel, or bank of any river, stream, or lake" or "deposit debris, waste, or other materials that could pass into any river, stream, or lake." "River, stream, or lake" includes waters that are episodic and perennial, and ephemeral streams, desert washes, and watercourses with a subsurface flow. A Lake or Streambed Alteration Agreement will be required if CDFW determines that project activities may substantially adversely affect fish or wildlife resources through alterations to a covered body of water.

California Porter-Cologne Water Quality Control Act

The RWQCB has regulatory authority over wetlands and waterways under both the CWA and the State of California's Porter-Cologne Water Quality Control Act (California Water Code, Division 7). Under the CWA, the RWQCB has regulatory authority over actions in waters of the U.S. through the issuance of water quality certifications under Section 401 of the CWA in conjunction with permits issued by the USACE under Section 404 of the CWA. When the RWQCB issues Section 401 certifications, it simultaneously issues general Waste Discharge Requirements for the project under the Porter-Cologne Water Quality Control Act. Activities in areas that are outside of the jurisdiction of the USACE (e.g., isolated wetlands, vernal pools, seasonal streams, intermittent streams, channels that lack a nexus to navigable waters, or stream banks above the ordinary high-water mark (OHWM) are regulated by the RWQCB under the authority of the Porter-Cologne Water Quality Control Act. Activities that lie outside of USACE jurisdiction may require the issuance of either individual or general waste discharge requirements.

California Native Plant Society

The CNPS maintains a rank of plant species native to California that have low population numbers, limited distribution, or are otherwise threatened with extinction. This information is published in the Inventory of Rare and Endangered Vascular Plants of California. Potential impacts to populations of CNPS ranked plants receive consideration under CEQA review. The following identifies the definitions of the CNPS ranks:

- **Rank 1A:** Plants presumed Extinct in California.
- **Rank 1B:** Plants Rare, Threatened, or Endangered in California.
- **Rank 2A:** Plants that are presumed extirpated, but more numerous elsewhere.
- **Rank 2B:** Plants Rare, Threatened, or Endangered in California, but more numerous elsewhere.
- **Rank 3:** Plants about which we need more information—A Review List.
- **Rank 4:** Plants of limited distribution—A Watch List.

All plants appearing on CNPS Lists 1 or 2 are considered to meet the CEQA Guidelines Section 15380 criteria. While only some of the plants ranked 3 and 4 meet the definitions of threatened or endangered species, the CNPS recommends that all Rank 3 and Rank 4 plants be evaluated for consideration under CEQA.

Stanislaus County General Plan Conservation/Open Space Element

The Conservation/Open Space Element of the Stanislaus County General Plan emphasizes the conservation and management of natural resources and the preservation of open space lands (any parcel or area of land or water which is essentially unimproved). The Element: (1) promotes the protection, maintenance, and use of the County's natural resources, with special emphasis on scarce resources and those that require special control and management; (2) prevents wasteful exploitation, destruction, and neglect of natural resources; (3) recognizes the need for natural resources to be maintained for their ecological values as well as for their direct benefit to people; (4) preserves open space lands for outdoor recreation including scenic, historic and cultural areas; and (5) preserves open space for public health and safety including areas subject

to landslides, flooding, and high fire risk and areas required for the protection of water and air quality.

The Goals, policies and implementation measures of the Conservation/Open Space Element cover the various natural, cultural, recreational, and aesthetic resources found throughout the County. Goals One and Ten pertain to biological resources management in the County:

GOAL ONE - Encourage the protection and preservation of natural and scenic areas throughout the County.

1. *POLICY ONE* - Maintain the natural environment in areas dedicated as parks and open space:
    1.1. Development of County parks shall include provisions for native vegetation conservation. Rare and endangered plants will be protected consistent with state and federal law and consistent with protection standards for private development as established in this General Plan.
2. *POLICY TWO* - Assure compatibility between natural areas and development.
    2.1. Review zoning regulations and landscaping requirements for compatibility between proposed development and natural areas, including protection from invasive plants. All development requests will be reviewed to ensure that sensitive areas (e.g., riparian habitats, vernal pools, rare plants) are left undisturbed or that mitigation measures acceptable to appropriate state and federal agencies are included in the project.
    2.2. Discourage the establishment of conservation areas or nature preserves within adopted Airport Influence Areas.
    2.3. Consider adoption of scenic corridors to protect and preserve natural scenic vistas located throughout the County.
3. *POLICY THREE* - Areas of sensitive wildlife habitat and plant life (e.g., vernal pools, riparian habitats, flyways and other waterfowl habitats, etc.) including those habitats and plant species listed by state or federal agencies shall be protected from development and/or disturbance.
    3.1. Review all development requests to ensure that sensitive areas (e.g., riparian habitats, vernal pools, rare plants, flyways, etc.) are left undisturbed or that mitigation measures acceptable to appropriate state and federal agencies are included in the project.
    3.2. All discretionary projects that will potentially impact riparian habitat and/or vernal pools or other sensitive areas shall include mitigation measures for protecting that habitat.
    3.3. Any ground disturbing activities on lands previously undisturbed that will potentially impact riparian habitat and/or vernal pools, or other sensitive areas shall include mitigation measures for protecting that habitat, as required by the State Department of Fish and Wildlife.
4. *POLICY FOUR* - Protect and enhance oak woodlands and other native hardwood habitats.
    4.1. Require all discretionary projects that will potentially impact oak woodlands and other native hardwood habitat, including but not limited to hardwood rangelands identified by the California Department of Forestry and Fire Protection, to include a management plan for the protection and enhancement of oak woodlands and other native hardwood habitat.

GOAL TEN - Protect fish and wildlife species of the County.

1. *POLICY TWENTY-NINE* - Habitats of rare and endangered fish and wildlife species, including special status wildlife and plants, shall be protected.

    1.1. The County shall utilize the CEQA process to ensure that development does not occur that would be detrimental to fish, plant life, or wildlife species. The County shall utilize the California State Department of Fish and Wildlife's California Natural Diversity Data Base and the California's Native Plant Society plant lists as the primary sources of information on special status wildlife and plants.

Additional background information on resources not discussed in other elements of the General Plan include:

Fish and Wildlife Inventory

- Numerous species of plant and animal life are found in Stanislaus County which has aesthetic, recreational, economic, scientific or educational value to the citizens of the area. Thirteen land cover types, which provide wildlife habitat, can be found in Stanislaus County. These are Oak woodland, Blue oak-foothill pine, Valley foothill riparian, Chaparral, Diablan sage scrub, Annual grassland, Vernal pool/Annual grassland complex, Freshwater emergency wetland, Riverine, Lacustrine, Agriculture, Urban, and Barren.
- Special status wildlife species that have been identified occurring within Stanislaus County are primarily associated with the annual grassland/vernal pool complexes on the eastern side of the county, the riparian habitats along the San Joaquin, Stanislaus, and Tuolumne rivers, and the lands west of Interstate 5. Critical habitat has been designated for 11 federally listed species within the limits of Stanislaus County.

CEQA Guidelines

The following CEQA Guidelines serve as thresholds of significance for determining potentially significant impacts on the biological resources identified in this report:

- Has a substantial adverse effect, either directly or through habitat modifications, on any species identified as being a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or USFWS.
- Has a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by CDFW or USFWS.
- Has a substantial adverse effect on federally protected wetlands as defined by Sections 10 and/or 404 of the CWA through direct removal or filling.
- Interferes substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impedes the use of native wildlife nursery sites.
- Conflicts with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

- Conflicts with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, state or federal habitat conservation plan.

METHODS

The literature review and field survey provide a baseline from which to evaluate the biological resources potentially occurring on the project site as well as the surrounding area.

Literature Review

As part of the literature review, we drew upon professional knowledge of the area having completed similar projects in the past. The literature review included literature pertaining to habitat requirements of special-status species potentially occurring in the vicinity of the project site; and federal register listings, protocols, and species data provided by the USFWS. Specifically, these documents included:

- California Natural Diversity Database 9-Quad records search of the Brush Lake, Copper Mountain, Crow's Landing, Patterson, Ripon, Salida, Solyo, Vernalis, and Westley USGS 7.5-minute quadrangles (Appendix C).
- California Native Plant Society (CNPS) online Inventory of Rare and Endangered Plants of California records search of the Westley USGS 7.5-minute quadrangle.
- CDFW Early Consultation Letter for the Hondeville Energy Center Project.

The literature reviewed also included the United States Department of Agriculture Soil Survey for the project site and the current USGS 7.5-minute topographic quadrangle maps and recently flown aerial photographs as a preliminary analysis of the existing conditions within the project site and immediate vicinity. Information obtained from the review of the soils and topographic maps included elevational range, general watershed information, potential drainage feature locations, and specific soils information (e.g. hydric soils, specialized soils supporting endemism, etc.). Aerial photographs provided a perspective of the most current site conditions relative to onsite and offsite land use, plant communities, and potential locations of any wildlife movement corridors.

Prior to conducting the field survey, the review of USGS maps and aerial photography was used to identify any potential drainage features and/or water bodies. In general, all surface drainage features identified as blue-line streams on USGS and USFWS maps exhibit evidence of flows and are considered potentially subject to federal regulatory authority as jurisdictional waters of the U.S. and generally considered waters of the State. As part of the assessment, we determined the location of any existing drainages and limits of project-related grading activities, to aid in determining any need for any regulatory permitting for the project.

Field Surveys

Field surveys were conducted on April 16, 2023; June 28 and November 23, 2025; and August 31, 2026. Surveys involved full coverage of the site and a aerial photo and limited field review of an associated 500-foot buffer for potential Swainson's hawk nest trees. These surveys included an

assessment of general biological site conditions, including vegetation and identification of potentially suitable habitats for listed plant and wildlife species. Any special-status or other sensitive biological resources identified during the review were ground truthed during the field survey to ensure accuracy. This included surveys for any potentially occurring rare plants as these surveys occurred during optimal blooming periods for these species.

Special attention was paid to any sensitive habitats and areas potentially supporting special-status floral and faunal species. Additional parameters of investigation included general habitat, soil conditions, presence of indicator species, slope, aspect, and hydrology. Common plant species observed during surveys were identified by visual characteristics and morphology in the field and recorded in a field notebook. Uncommon and less-familiar plants were identified off-site with the use of taxonomical guides. Vegetation communities and boundaries were noted on current aerial photography and through field observation. Habitat types were based on the classification system from *A Guide to Wildlife Habitats of California* (CDFW 1988). Vegetation community and land cover types used to help classify habitat types are based on Holland (1986) and Oberbauer (1996) and cross-referenced with CDFW's *Natural Communities List* (2010).

Wildlife species detected during the survey by sight, calls, tracks, scat, or other signs were recorded in a field notebook. Several areas of stored farming equipment and general materials (e.g. pipes, broken concrete) stockpiling were also inspected. Notations were made regarding suitable habitat for those special-status species determined to potentially occur within the project site. Appropriate field guides were used to assist with species identification during surveys, such as Peterson (2010), Reid (2006), and Stebbins (2003). Wildlife movement corridors link areas of suitable wildlife habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbance. Urbanization and the resulting fragmentation of open space areas create isolated "islands" of wildlife habitat, forming separated populations and corridors act as an effective link between these populations. The project site was evaluated for evidence of wildlife movement during the field surveys, although this assessment did not include a formal wildlife movement corridor study utilizing certain methods (e.g. camera stations, scent stations, etc.). The focus of this assessment was to determine if the change of land use of the project site may have potentially adverse effects on the regional movement of wildlife. Ground level photos of the site are included in Appendix B.

RESULTS

Vegetation

Most of the vegetation on the project site is dominated by actively cultivated orchards with areas of ruderal (weedy) vegetation along the edges of orchards and farming roads and levee slopes of the California Aqueduct that runs through a portion of the site (Figure 2 – Appendix A). Ruderal vegetation also occurs in the northwestern portion of the site bordering the eastern edge of I-5. Hydrophytic vegetation occurs in association with the actively used agricultural detention pond and the former detention basin in the northern portion of the site as well as a potential seasonal wetland area along I-5 in the northwestern portion of the site. Trees on the site are limited to orchard trees with some shrubby vegetation occurring along the edge of the site in some areas.

Ruderal

Ruderal vegetation is dominated by non-native grasses and herbaceous species that are common in association with agricultural areas. Weedy grasses such as wild oat (*Avena* spp.), ripgut brome (*Bromus diandrus*), red brome (*Bromus rubens*), and soft chess (*Bromus hordeaceous*) intermix with non-native herbaceous species that include field mustard (*Hirschfeldia incana*), rancher's fiddleneck (*Amsinckia intermedia*), Italian thistle (*Carduus pycnocephalus*), Russian thistle (*Salsola* sp.), annual sunflower (*Helianthuus annuas*), and jimson weed (*Datura* sp.).

Agriculture (Orchards)

Orchards with varying growth stages of trees are actively managed for fruit and nut production and dominate the site. Primary harvest seasons are currently May through June for the cherry crops and August through October for the almond crops. These areas are also comprised of dirt access roads and barren areas used for farming implement storage. Two detention basins occur on the site. The centrally located basin is actively used for irrigation water distribution and storage and supports some hydrophytic vegetation. These species include curly dock (*Rumex crispus*), willow herb (*Epilobium* spp.), cattail (*Typha angustifolia*), and yellow water primrose (*Ludwigia* spp.) intermixed with occasional algae.

Seasonal Wetland

A small area exhibiting seasonal wetland vegetation occurs in the northwestern portion of the site (Figure 3 – Appendix A). This area is mostly dominated by facultative (i.e. plants that equally occur in wetlands and uplands) species such as tall whitetop (*Lepidium latifolium*), hemlock (*Conium maculatum*), and Mediterranean barley (*Hordeum marinum* ssp. *gussonneanum*) and appears to be somewhat influenced by surface hydrology as evidenced by a small culvert in the Interstate 5 right of way, which is off site.

Wildlife

The vegetation discussed above supports habitat for common wildlife species typical of the habitats found on the site. Wildlife species observed on the site include house finch (*Carpodacus mexicanus*), northern mockingbird (*Mimus polyglottos*), mourning dove (*Zenaida macroura*), common raven (*Corvus corax*), white-crowned sparrow (*Zonotrichia leucophrys*) and Brewer's blackbird (*Euphagus cyanocephalus*). Other species include western fence lizard (*Sceloporus occidentalis*) and numerous California ground squirrels (*Otospermophilus beecheyi*) that were observed throughout the site.

As described above, the project site was evaluated for evidence of wildlife movement during surveys. Since the project has been designed with potential for movement within constructed solar panel areas, implementation of the proposed project is not expected to result in impedance of wildlife movement, especially given the extent of small wildlife species moving through the site. Moreover, the design allows for continued use of the site for common wildlife and considering surrounding land uses would not be expected to result in adverse effects to wildlife.

Sensitive Natural Communities

Sensitive natural communities are considered sensitive biological resources based on federal, state, or local laws regulating their development, limited distributions, and habitat requirements of special-status plant or wildlife species that occur within them. The CNDDB lists three sensitive plant communities in the region, all riparian habitats (Great Valley Cottonwood, Mixed, and Valley Oak Riparian Forest). None of these habitat types were identified within the project site.

The seasonal wetland in the northwestern portion of the site may be considered a jurisdictional "special aquatic site" under section 404 of the CWA and would likely need to be investigated further if filled or otherwise removed by the proposed project.

Special-Status Species

As discussed under Regulatory Background, special-status species that are considered threatened, or endangered by USFWS, CDFW, and CNPS are analyzed under CEQA. Sensitive species that would qualify for listing but are not currently listed are also afforded protection under CEQA. Additionally, unlisted plant species on the CNPS Lists 1A, 1B, and 2 would typically be considered under CEQA.

Plants

Based on the literature review and CNDDB data, a total of **34** special-status plant species are known or expected to occur in the region (Appendix C). Of these species, several occur in specialized native habitats such as chaparral and vernal pools that do not occur on the site. Moreover, specialized grassland species such as diamond petaled poppy (*Eschscholzia rhombipetala*), big tarplant (*Blepharizonia plumosa*), prairie wedge grass (*Sphenopholis obtusata*), and California alkali grass (*Puccinellia simplex*) are not expected to occur due to highly disturbed (weedy) conditions and lack of observations on the site. Due to the lack of appropriate habitat and highly disturbed nature of the project site, special-status plant species are not expected to occur on the project site, and no further botanical studies are required.

Wildlife

Special-status wildlife species are considered rare, threatened, or endangered by the USFWS and CDFW. Federally listed threatened and/or endangered wildlife species that have been recorded in the CNDDB as occurring within the vicinity of the project site include **72** special-status species occurring in a variety of habitats in the region (Appendix C). A number of these listed or proposed species such as northwestern pond turtle (*Actinemys marmorata*), burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), American badger (*Taxidea taxus*), and San Joaquin kit fox (*Vulpes macrotis*) have the potential to occur on the project site or in the vicinity. However, the potential for the western pond turtle and special-status amphibians that include California tiger salamander (*Ambystoma californiense*), foothill yellow-legged frog (*Rana boylii*), and western spadefoot toad (*Spea hammondii*) to occur on site is very low given the lack of sightings and lack of suitable habitat (manmade disturbed conditions with the detention ponds). Additionally, the continuous use of irrigation likely precludes presence of these species. Therefore, these species are not anticipated to be impacted by the project.

Other special-status bird species such as prairie falcon (*Falco mexicanus*), merlin (*Falco columbarius*), snowy egret (*Egretta thula*), great blue heron (*Ardea herodias*), loggerhead shrike (*Lanius ludovicianus*), and California horned lark (*Eremophila alpestris actia*) could occur as well. However, these species are not expected to be adversely affected by implementation of the proposed project due to the lack of nesting habitat and limited foraging habitat available. In addition, any impacts to the potential occurrences of these species would be reduced to less than significant by the mitigation measures for pre-construction surveys of MBTA-covered bird species.

Several fish and aquatic species also occur or are expected to occur in the region. However, upon completion of field surveys, biologists determined that all special-status aquatic species are not expected to occur on the project site due to the lack of suitable conditions within habitat on the site. Although the detention basins temporarily hold water, it is entirely a closed system utilized for agriculture and would not support any of the special-status fish species. Therefore, special-status aquatic species are not anticipated to be impacted by the proposed project.

Invertebrate species such as American bumble bee (*Bombus pensylvanicus*) and Crotch's bumble bee (*Bombus crotchii*), and moestan blister beetle (*Lytta moesta*) also have the potential to occur in the region while the valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*) is not expected to occur due to the lack of elderberry shrubs which are required for this species life cycle Special-status species with potential to occur on the project site are discussed in more detail below:

Swainson's hawk

The project site is within the known geographic range of Swainson's hawk and there are historical occurrences documented within the vicinity of the project site (CNDDB 2026). Swainson's hawks are known to forage in alfalfa, fallow fields, field crops, and grassland habitats with a sufficient source of small mammals. Although the project site contains suitable habitat for foraging Swainson's hawk, the orchards are not as likely to be regularly used by this species given the extent of foraging opportunities in surrounding areas. Swainson's hawks could potentially forage in the ruderal grassland in the northern portion of the site and nest in the vicinity of the project site, as suitable nest trees were found in the 500-foot buffer east of the northern section of the site. As such, the Swainson's hawk has the potential to be impacted by the project and is further discussed under *Discussions and Recommendations* below.

Burrowing owl

This species is a small, ground-dwelling bird found in annual and perennial grasslands, rangeland, some agricultural areas, deserts, and open scrublands characterized by low growing vegetation. Burrowing owl typically uses burrows made by fossorial mammals (e.g. ground squirrels), but may also use man-made structures, such as culverts, debris piles, or pipes. They commonly perch on fence posts or on mounds of dirt that are typically present adjacent to nesting or roosting burrows. The nesting season for burrowing owls begins as early as February and typically ends in late August but have been recorded as late as September, with peak nesting activity from April to July. Although not found, burrowing owl could occur on the project site. While the density of weedy grasses and level of disturbance of the project site makes this less likely, it is further discussed under *Discussions and Recommendations* below.

American badger

Although this species could occur on the site, no evidence was found during surveys. Given the extent of verified ground squirrel use and lack of dens, this species occurrence on the site is expected to be low. However, the American Badger has the potential to be impacted by the project and is further discussed under *Discussions and Recommendations* below.

San Joaquin kit fox

San Joaquin kit fox (SJKF) has been known from the region and may move through the area. Six (6) burrows of sufficient diameter (4 inches or greater) for SJKF use were found on the eastern levee of the California Aqueduct in the northern portion of the site (Figure 3 – Appendix A). Although these burrows appear to be large enough to be potentially used by the SJKF, the high density of weedy vegetation, level of disturbance on the project site, evidence of ground squirrels use likely preclude this species. To further evaluate the potential for the SJKF to occur on the project site, a Focused San Joaquin Kit Fox Survey, prepared by Blackrock Environmental, was prepared to confirm whether this species has the potential to be impacted by the project (Appendix D).

Crotch's Bumble Bee

The project is within known geographic range of Crotch's bumble bee (CDFW 2025) and suitable habitat is present within the ruderal habitats within and along the boundary of the project site. This species is known to inhabit a variety of habitats, including grasslands, scrublands, openings in woodlands, areas with bare ground including vacant lots, dirt roads, and levees (Xerces Society et al. 2018; CDFW 2024). This species is discussed under *Discussions and Recommendations* below.

Local Policies/Ordinances

The project does not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

Habitat Conservation Plans

The project does not conflict with the provisions of any habitat conservation plan, natural community conservation plan, or other approved local, regional, state or federal habitat conservation plan as these plans are not applicable to this region.

Discussion and Recommendations

Swainson's hawk

Although this species was not found and suitable nest trees are lacking on the site, some suitable nest trees occur in the 0.5-mile buffer east of the northern portion of the site. Other trees occur to the west of I-5, but those are eucalyptus trees planted along I-5 and not optimal for nesting

Swainson's hawks. In early consultation documentation, CDFW recommended that a qualified biologist conduct surveys for nesting Swainson's hawk following the methods developed by the Swainson's Hawk Technical Advisory Committee (Swainson's Hawk Technical Advisory Committee 2000) prior to project implementation. The survey protocol includes early season surveys to assist the project proponent in implementing necessary avoidance and minimization measures, and in identifying active nest sites prior to initiating ground-disturbing activities. If active Swainson's hawk nests are detected within a 0.5-mile buffer of the site, they should be monitored for a minimum of three hours to determine a baseline of behavior and be avoided by a minimum 0.25-mile buffer.

After this initial baseline monitoring event, the nest should be monitored once weekly, including at the initiation of construction activity, to determine the stage of the nest. The nest shall be monitored for at least two hours each week between 7:00 a.m. and 10:00 a.m., and notes on adult behaviors, presumed stage and number of young, and any other breeding behaviors (e.g., copulation, prey deliveries) should be kept in a field notebook or digital field data collection application. If construction activity is determined to disturb birds, the monitor may increase the buffer width as necessary to alleviate the disturbance. The buffer should remain in place until the young have fledged or the nest is inactive, to be determined by the qualified biologist. If maintaining appropriate avoidance buffers is infeasible, the Lead Agency/Project proponent shall coordinate with CDFW prior to working within the area to determine next steps.

Burrowing owl

Although this species was not found, CDFW has recommended focused surveys during the survey season immediately prior to construction to assess the presence of burrowing owl on or adjacent to the site. The surveys should follow the California Burrowing Owl Consortium's (CBOC) Burrowing Owl Survey Protocol and Mitigation Guidelines (CBOC 1993) and the CDFW Staff Report on Burrowing Owl Mitigation (CDFG 2012) or the latest guidelines. If burrowing owl individuals or sign at burrows (e.g., whitewash, feathers, pellets, etc.) are detected on the site at any time during construction, including during any pre-construction surveys, work should stop within 500 feet of the individual or burrow during the breeding season (February 1 – August 31), and within 50 feet of the individual or burrow during the non-breeding season (September 1 – January 31). If maintaining the avoidance buffers is infeasible, CDFW should be notified to determine next steps, which may include additional surveys to determine baseline behavior of the individual and whether nesting is occurring on the site, and/or consultation to determine whether an Incidental Take Permit for burrowing owl is warranted for the project duration.

American Badger

During protocol-level burrowing owl surveys and within 48 hours prior to the onset of construction, a survey should be performed by a qualified biologist to determine the presence of potential American badger burrows. If no suitable burrows are detected, or no American badgers are detected during remote camera monitoring, no further mitigation would be required. If an active American badger den is detected in or within 100 feet of the work area (where accessible) during the preconstruction survey, the den should be protected with a no disturbance buffer, as determined by a qualified biologist, based on the location of the den and construction activities in the vicinity of the den. If an active den cannot be avoided, a Badger Eviction Plan should be

prepared and submitted to CDFW. The Plan should describe eviction of American badgers and may include camera station monitoring of burrows to ensure badgers are not inside, and timing of eviction to occur outside of the season that young could be present (March 1 – August 31).

Nesting Birds

To avoid disturbance of nesting and special-status birds protected by the MBTA and CFGC, activities related to the project construction, including, but not limited to, vegetation removal, ground disturbance, and construction and demolition should occur outside of the bird breeding season (February 1 through September 15) to the extent feasible. If construction must begin within the breeding season, then a nesting bird survey should be conducted no more than seven (7) working days prior to initiation of ground disturbance and vegetation-removal activities. The nesting bird survey shall be conducted within the project area, plus a 500-foot buffer, on foot, and within inaccessible areas (i.e., private lands) using binoculars to the practical extent.

If nests are found, an avoidance buffer (which is dependent upon the species, the proposed work activity, and existing disturbances associated with land uses outside of the site) should be determined and demarcated by the biologist with bright orange construction fencing, flagging, construction lathe, or other means to mark the boundary that provides adequate marking but does not disturb the nest itself. All construction personnel should be notified as to the existence of the buffer zone and instructed to avoid entering the buffer zone during the nesting season. No ground-disturbing activities shall occur within this buffer until the biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Encroachment into the buffer should occur only at the discretion of the qualified biologist. The active nests should be monitored for a minimum of one hour for passerines and three hours for raptors to determine a baseline of behavior, and should be avoided by a sufficient buffer, to be determined by the qualified biologist, based on species and Project activities in the vicinity of the nest. After the initial baseline monitoring event, the nest shall be monitored once weekly to determine the stage of the nest. The buffer should remain in place until the young have fledged or the nest is inactive, to be determined by the qualified biologist.

Crotch's Bumble Bee

As suitable habitat is present within the project site and vicinity, CDFW generally recommends a qualified biologist conduct a habitat assessment as part of the biological technical studies conducted in support of a subsequent CEQA document or prior to project approval determine if the entire project site and the immediate surrounding vicinity contain habitat suitable to support this species. Potential nesting sites, which include all small mammal burrows, perennial bunch grasses, thatched annual grasses, brush piles, old bird nests, dead trees, and hollow logs would need to be documented as part of the assessment. If potentially suitable habitat is identified, regardless of what time of year, project activities will be conducted, CDFW recommends that a qualified biologist conduct focused surveys for CBB and their requisite habitat features following the methodology outlined in the Survey Considerations for California Endangered Species Act Candidate Bumble Bee Species (CDFW 2023). If surveys indicate the presence or potential presence of CBB, consultation with CDFW is recommended for guidance on the development of mitigation measures such as take avoidance, minimization, and mitigation. If take cannot be avoided for SJKF, take authorization

through the acquisition of an ITP, pursuant to Fish and Game Code section 2081 subdivision (b) is necessary to comply with CESA.

Potential Waters of the U.S./Waters of the State

As described above, a small potentially jurisdictional wetland was mapped along the northwestern boundary area exhibiting seasonal wetland vegetation and some indicators of surface hydrology (i.e. an offsite culvert that appears to collect runoff from Interstate 5). Due to the potential jurisdictional status of this area, the project design has been revised to avoid impacting this feature. Given the likely influence of offsite surface hydrology to the west, project implementation surrounding the north, east, and south boundaries of this feature is not expected to adversely affect continued wetland function. For this reason, avoidance of this feature will not result in the need for any regulatory permitting otherwise necessary for removal of potential wetlands.

Please contact me at 916.305.5823 or bmayerle.blackrock@gmail.com, if you have any questions or need additional information.

Sincerely,



Brian Mayerle – *Principal Biologist*

Blackrock Environmental Consulting

Appendix A – Figures 1 -3
Appendix B – Ground level photographs
Appendix C – CNDDB 9-QUAD Summary Table
Appendix D – Focused survey for SJKF

Appendix A – Figures 1 - 3

Figure 1 - Project Site Location and Vicinity

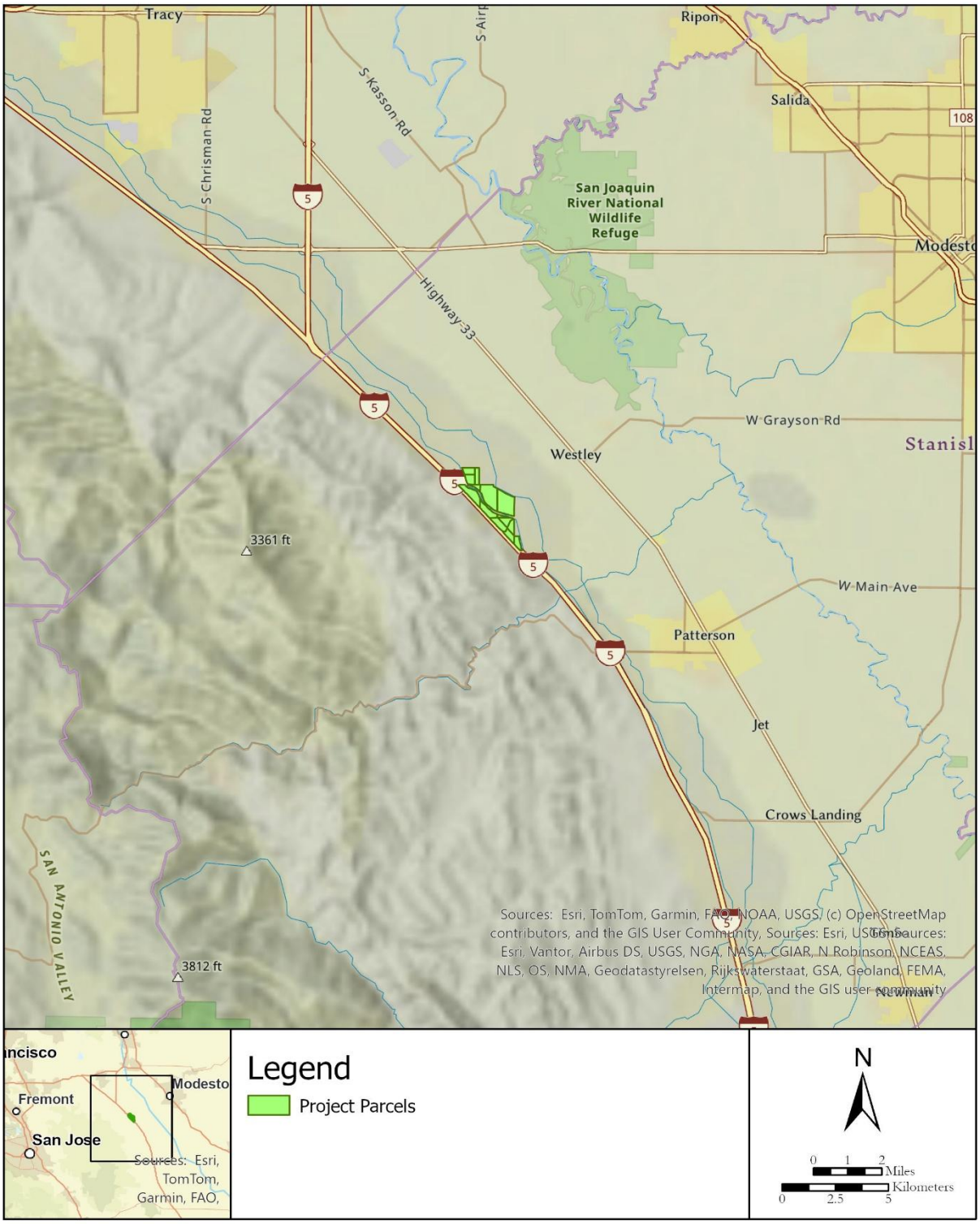


Figure 2 - Vegetation

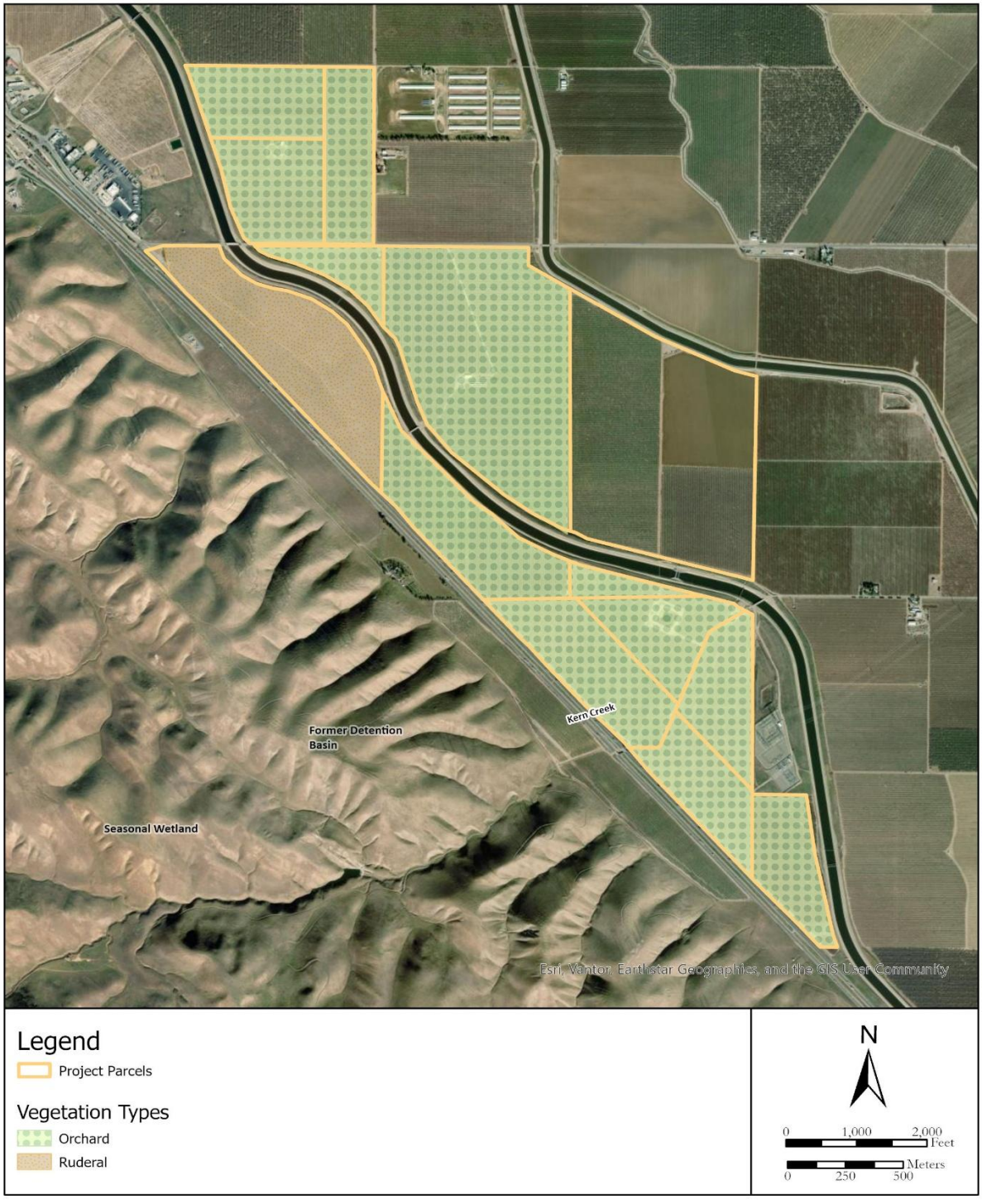
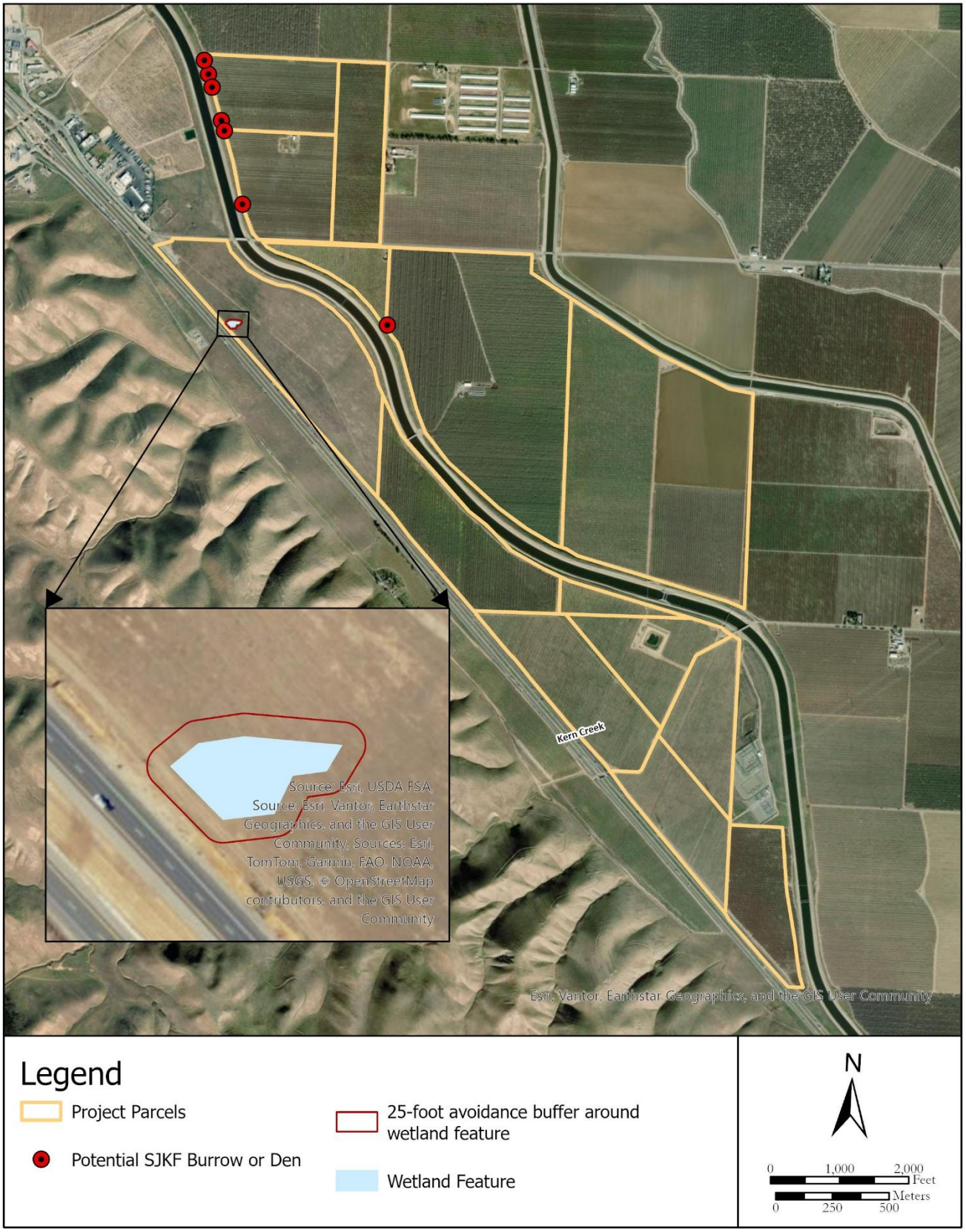


Figure 3 - Sensitive Biological Resources



Appendix B - Representative Site Photos



Photo 1. Ruderal Grassland Onsite



Photo 2. Ruderal Grassland Onsite



Photo 3. Orchard Access Road along Interstate 5



Photo 4. Orchards onsite



Photo 5. Orchard Access Road

-



Photo 6. Debris Piles Examined for Potential Special-Status Species



Photo 7. Pipe Storage Examined



Photo 8. Orchard Access Road along California Aqueduct



Photo 9. Access Road along California Aqueduct



Photo 10. Burrow along orchard Access Road along California Aqueduct



Photo 11. Burrow site along access road along California Aqueduct



Photo 12. Orchard Access Road



Photo 13. Access Road along Interstate 5



Photo 14. Irrigation Detention



Photo 15. Irrigation Detention



Photo 16. Irrigation Detention



Photo 17. Burrow in northern portion of the site



Photo 18. Burrow in northern portion of the site.

Appendix C – CNDDB

Name (Scientific)	Name (Common)	Listing Status (Federal)	Listing Status (State)	CDFW Status	CNPS	Elevation Range (m)	Total EOs
Acanthomintha lanceolata	Santa Clara Thorn-mint	None	None	-	4.2	to 1200	0
Acipenser medirostris pop. 1	Green Sturgeon	Threatened	None	SSC	-		0
Acipenser transmontanus	White Sturgeon	None	Candidate Threatened	SSC	-		0
Acmispon rubriflorus	Red0flowered Birds-foot Trefoil	None	None		1B.1	about 200	1
Actinemys marmorata	Northwestern Pond Turtle	Proposed Threatened	None	SSC	-		0
Agelaius tricolor	Tricolored Blackbird	None	Threatened	SSC			77
Ambystoma californiense	California Tiger Salamander	Threatened	Threatened	WL			33
Ambystoma californiense pop. 1	California Tiger Salamander - Central California DPS	Threatened	Threatened	WL	-		0
Anniella pulchra	Northern Legless Lizard	None	None	SSC			125
Anthicus sacramento	Sacramento Anthicid Beetle	None	None				10
Antigone canadensis canadensis	Lesser Sandhill Crane	None	None	SSC	-		0
Antigone canadensis tabida	Greater Sandhill Crane	None	Threatened	FP	-		0
Aquila chrysaetos	Golden Eagle	None	None	FP | WL	-		0
Archoplites interruptus	Sacramento Perch	None	None	SSC	-		0
Ardea alba	Great Egret	None	None	-	-		0
Ardea herodias	Great Blue Heron	None	None				35
Arizona elegans occidentalis	California Glossy Snake	None	None	SSC	-		0
Astragalus tener var. *tener*	Alkali Milk-vetch	None	None		1B.2	0 to 60	5
Astur cooperii	Cooper's Hawk	None	None	WL	-		0
Athene cunicularia	Burrowing Owl	None	None	SSC			144
Atriplex cordulata var. *cordulata*	Heartscale	None	None		1B.2	0 to 240	12
Atriplex coronata var. *coronata*	Crownscale	None	None	-	4.2	0 to 590	0
Atriplex minuscula	Lesser Saltscale	None	None		1B.1	15 to 200	34
Atriplex persistens	Vernal Pool Smallscale	None	None		1B.2	10 to 115	9
Blepharizonia plumosa	Big Tarplant	None	None		1B.1	30 to 505	60

Name (Scientific)	Name (Common)	Listing Status (Federal)	Listing Status (State)	CDFW Status	CNPS	Elevation Range (m)	Total EOs
Bombus caliginosus	Obscure Bumblebee	None	None				139
Bombus crotchii	Crotch's Bumblebee	None	Candidate Endangered				26
Bombus pensylvanicus	American Bumblebee	None	None	-	-		0
Branchinecta conservatio	Conservancy Fairy Shrimp	Endangered	None				12
Branchinecta lynchi	Vernal Pool Fairy Shrimp	Threatened	None				799
Branta hutchinsii leucopareia	Cackling (=Aleutian Canada) Goose	Delisted	None	WL			18
Buteo swainsoni	Swainson's Hawk	None	Threatened				2524
Caulanthus lemmonii	Lemmon's Jewelflower	None	None		1B.2	50 to 1580	33
Centromadia parryi ssp. *rudis*	Parrys Rough Tarplant	None	None	-	4.2	0 to 100	0
Ceratochrysis menkei	Menke's Cuckoo Wasp	None	None				2
Circus hudsonius	Northern Harrier	None	None	SSC	-		0
Cirsium crassicaule	Slough Thistle	None	None		1B.1	3 to 100	1
Clarkia breweri	Brewer's Clarkia	None	None	-	4.2	215 to 1,115	0
Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	None	None				35
Coccyzus americanus occidentalis	Western Yellow-billed Cuckoo	Threatened	Endangered				141
Collomia diversifolia	Serpentine Collomia	None	None	-	4.3	200 to 600	0
Convolvulus simulans	Small-flowered Morning-glory	None	None	-	4.2	30 to 740	0
Cottus gulosus	Riffle Sculpin	None	None	SSC	-		0
Cryptantha rattanii	Rattans Cryptantha	None	None	-	4.3	245 to 915	0
Desmocerus californicus dimorphus	Valley Elderberry Longhorn Beetle	Threatened	None				156
Egretta thula	Snowy Egret	None	None				2
Elanus leucurus	White-tailed Kite	None	None	FP	-		0
Elderberry Savanna	Elderberry Savanna	None	None				1
Empidonax traillii	Willow Flycatcher	None	Endangered	-	-		0
Emys marmorata	Western Pond Turtle	None	None	SSC			60

Name (Scientific)	Name (Common)	Listing Status (Federal)	Listing Status (State)	CDFW Status	CNPS	Elevation Range (m)	Total EOs
Entosphenus tridentatus	Pacific Lamprey	None	None	SSC	-		0
Eremophila alpestris actia	California Horned Lark	None	None	WL			11
Eriastrum tracyi	Tracy's Eriastrum	None	Rare		3.2	315 to 1,780	24
Eriophorum gracile	Slender Cottongrass	None	None	-	4.3	1,280 to 2,900	0
Eriophyllum jepsonii	Jepson's Woolly Sunflower	None	None	-	4.3	200 to 1,025	0
Eryngium racemosum	Delta Button-celery	None	Endangered		1B.1	3 to 30	1
Eryngium spinosepalum	Spiny-sepaled Button-celery	None	None		1B.2	80 to 975	104
Eschscholzia hypecoides	San Benito Poppy	None	None	-	4.3	100 to 1,500	0
Eschscholzia rhombipetala	Diamond-petaled California Poppy	None	None		1B.1	0 to 975	2
Eucerceris ruficeps	Redheaded Sphecid Wasp	None	None				3
Falco columbarius	Merlin	None	None	WL			18
Falco mexicanus	Prairie Falcon	None	None	WL			446
Fritillaria falcata	Talus Fritillary	None	None		1B.2	300 to 1,525	3
Galium andrewsii ssp. *gatense*	Phlox-leaf Serpentine Bedstraw	None	None	-	4.2	150 to 1,450	0
Gonidea angulata	Western Ridged Mussel	None	None				146
Great Valley Cottonwood Riparian Forest	Great Valley Cottonwood Riparian Forest	None	None				19
Great Valley Mixed Riparian Forest	Great Valley Mixed Riparian Forest	None	None				30
Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	None	None				27
Hesperevax caulescens	Hogwallow Starfish	None	None	-	4.2	0 to 505	0
Hypomesus transpacificus	Delta Smelt	Threatened	Endangered	-	-		0
Hysterocarpus traskii traskii	Sacramento-San Joaquin Tule Perch	None	None	-	-		0
Lampetra ayresii	Western Lamprey	None	None	SSC	-		0
Lanius ludovicianus	Loggerhead Shrike	None	None	SSC			15
Lasiurus cinereus	Hoary Bat	None	None				126
Lasthenia chrysantha	Alkali -sink Goldfields	None	None		1B.1	0 to 200	40
Lasthenia ferrisiae	Ferris Goldfields	None	None	-	4.2	20 to 700	0

Name (Scientific)	Name (Common)	Listing Status (Federal)	Listing Status (State)	CDFW Status	CNPS	Elevation Range (m)	Total EOs
Lavinia exilicauda exilicauda	Sacramento Hitch	None	None	SSC	-		0
Lepidurus packardi	Vernal Pool Tadpole Shrimp	Endangered	None				337
Leptosiphon ambiguus	Serpentine Leptosiphon	None	None	-	4.2	120 to 1,130	0
Leptosyne hamiltonii	Mt. Hamilton Coreopsis	None	None		1B.2	550 to 1,300	1
Linderiella occidentalis	California Linderiella	None	None				158
Lytta moesta	Moestan Blister Beetle	None	None				10
Madia radiata	Showy Golden Madia	None	None		1B.1	25 to 1,215	23
Malacothamnus hallii	Hall's Bushmallow	None	None		1B.2	10 to 760	10
Masticophis flagellum ruddocki	San Joaquin Bushmallow	None	None	SSC			23
Melospiza melodia	Song Sparrow ("Modesto" Population)	None	None	SSC			3
Melospiza melodia pop. 1	Song Sparrow (Modesto Population)	None	None	SSC	-		0
Mylopharodon conocephalus	Hardhead	None	None	SSC			14
Myotis yumanensis	Yuma Myotis	None	None	-	-		0
Navarretia nigelliformis ssp. *radians*	Shinining Navarettia	None	None		1B.2	65 to 1,000	82
Neogale frenata xanthogenys	San Joaquin Long-tailed Weasel	None	None	-	-		0
Neotoma fuscipes riparia	Riparian (=San Joaquin Valley) Woodrat	Endangered	None	SSC			2
Nycticorax nycticorax	Black-crowned Night Heron	None	None	-	-		0
Oncorhynchus keta	Chum Salmon	None	None	-	-		0
Oncorhynchus mykiss irideus pop. 11	Steelhead-Central Valley DPS	Threatened	None				25
Oncorhynchus tshawytscha pop. 11	Chinook Salmon - Central Valley Spring-run ESU	Threatened	Threatened	-	-		0
Oncorhynchus tshawytscha pop. 13	Chinook Salmon - Central Valley Fall/Late Fall run ESU	None	None	SSC	-		0
Perognathus inornatus	San Joaquin Pocket Mouse	None	None				61
Phacelia phacelioides	Mt. Diablo Phacelia	None	None		1B.2	500 to 1,370	7
Phrynosoma blainvillii	Coast Horned Lizard	None	None	SSC	-		0
Pogonichthys macrolepidotus	Sacramento Splittail	None	None	SSC			2

Name (Scientific)	Name (Common)	Listing Status (Federal)	Listing Status (State)	CDFW Status	CNPS	Elevation Range (m)	Total EOs
Puccinellia simplex	California Alkali Grass	None	None		1B.2	2 to 930	40
Pyrgulopsis diablensis	Diablo Range Pyrg	None	None				1
Rallus obsoletus obsoletus	California Ridgeways Rail	Endangered	Endangered	FP	-		0
Rana boylii	Foothill Yellow-legged Frog	None	Endangered	SSC			2073
Rana boylii pop. 4	Foothill Yellow-legged Frog-Central Coast DPS	Threatened	Endangered	-	-		0
Rana draytonii	California Red-legged Frog	Threatened	None	SSC	-		0
Rhaphiomidas trochilus	San Joaquin Valley Giant Flower-loving Fly	None	None	-	-		0
Setophaga petechia	Yellow Warbler	None	None	SSC	-		0
Spea hammondii	Western Spadefoot Toad	None	None	SSC			170
Sphenopholis obtusata	Prairie Wedge Grass	None	None		2B.2	300 to 2,000	16
Spinus lawrencei	Lawrence's Goldfinch	None	None	-	-		0
Sylvilagus bachmani riparius	Riparian Bush Rabbit	Endangered	Endangered				16
Taxidea taxus	American Badger	None	None	SSC			71
Vireo bellii pusillus	Least Bell's Vireo	Endangered	Endangered				509
Vulpes macrotis mutica	San Joaquin Kit Fox	Endangered	Threatened				566

Appendix D – SJKF Report

Blackrock Environmental

October 11, 2026

Kevin Kohan
Project Planner
Elevated Entitlements
280 E. Thousand Oaks Blvd. Suite H
Thousand Oaks, CA 91360

RE: Updated Focused Survey for San Joaquin Kit Fox for the Proposed Hondeville Energy Center Project in Stanislaus County, CA

In September 2024, Blackrock Environmental conducted a focused survey for San Joaquin kit fox (SJKF) on the previous site for the Hondeville Energy Center Project (project), which consisted of approximately 571 acres and included a parcel to the west of Interstate 5. Since that time, the project boundaries have been redesigned to add property to the north and not include the property west of Interstate 5. The current project site is located near the community of Westley, in unincorporated Stanislaus County at 3348 Howard Road. The site occurs on the Westley 7.5' United States Geological Survey (USGS) Quadrangle and is composed of approximately 738.6 acres (Figure 1). The Project site is broken into three primary areas consisting of the southern portion, central portion and northern portion. The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east. The topography of the site is mostly flat agricultural land with sloped areas that occur in association with the California Aqueduct and small section of the Delta Mendota Canal. Existing structures on the Project site include a modular home, agricultural structure, and small solar array, as well as a small structure / mobile home and outdoor vehicle/equipment storage area.

San Joaquin Kit Fox

The SJKF is covered under the U.S. Fish and Wildlife Service (USFWS) Recovery Plan for Upland Species of the San Joaquin Valley, California, published in September of 1998. SJKF is found in the San Joaquin Valley and in surrounding foothills of the Coast Ranges, Sierra Nevada, and Tehachapi Mountains, from southern Kern County north to Contra Costa; Alameda and San Joaquin counties to the west;

and near La Grange, Stanislaus County to the east. The SJKF occurs in grasslands, scrublands, vernal pool areas, alkali meadows and playas, and an agricultural matrix of row crops, irrigated pastures, orchards, vineyards, and grazed annual grasslands.

Habitats with friable soils that are suitable for constructing dens are preferred. Dens are generally located in open areas with grass or scattered brush. Preferred sites are relatively flat, well drained terrain. SJKF occupies soils with a high clay content where they can modify burrows dug by other animals, such as California ground squirrels. In the northern portion of their range, kit foxes primarily prey on California ground squirrels, cottontails, black-tail jackrabbits, pocket mice, and kangaroo rats.

SJKF dens may be occupied year-round. Natal and pupping dens are only in use between September and April and females occupy larger pupping dens between September and October. Pair formation typically occurs from October to late December and mating typically occurs in December to early January. The gestation period lasts approximately 55 days, with pups born between February and late March. SJKF produces only one litter per year, and pups emerge from the den after one month. Adults continue to provide food and care until the pups reach approximately 4 to 5 months old, at which time they disperse to smaller year-round use dens.

Methods

The literature review and field survey conducted for the biological resources assessment report between 2023-2026 provided a baseline from which to evaluate the potential for SJFK on the site. Field surveys were conducted between September 27-29, 2024 and September 12-15, 2026 in accordance with the protocol in accordance with the USFWS Protocol in the Recovery Plan, which states that the survey period extends through September 30.

Potential Den/Burrow Locations

As a result of the field work for the Biological Resources Assessment, Blackrock Environmental identified a total of seven (7) potential burrows/dens. One burrow complex located in the north-central portion of the site, included four burrow entrances and additional six burrows were found in 2026 on the northern parcels (Figure 2).

Results

The majority of the vegetation on the project site is dominated by actively cultivated orchards with fringe areas of ruderal (weedy) grassland along the edges of orchards and farming roads and the levee slopes of the California Aqueduct that runs through a portion of the site. The vegetation supports habitat for common wildlife species typical of the habitats found on the site, particularly California ground squirrel that was observed throughout the site during the survey. Numerous known ground squirrel burrows were found. All burrow entrances within the norther portion of the

site and potential SJKF burrow complex contained ground squirrel tracks on all days with evidence of western fence lizard on certain days as well. No evidence of SJKF was found during all days at these locations. These findings are valid for one year in accordance with CDFW recommendations.

Discussion

As stated in the BRA, SJKF has been known to occur in the region and may move through the area, although major barriers such as I-5 and the California Aqueduct likely limit movement from potential populations in the western interior coast ranges towards the east that is intensively managed for agriculture.

The surveyed burrows were all of sufficient diameter for SJKF use and were surveyed for tracks as part of this study. These burrows appeared large enough to be potentially used by SJKF, but were found to be largely used by ground squirrels. Due to the proximity of the open range annual grassland vegetation to the west, SJKF may be using the area at the grassland/orchard interface for shelter and/or foraging opportunities. However, their potential for occurrence on the site is low given the barriers associated with I-5 and the aqueduct and lack of evidence on the site. Although occasional transient SJKF could move through the site, it is unlikely that this species uses the site for breeding/denning. For these reasons, the project would not likely result in any adverse effects to SJKF.

Please contact me at 916.305.5823 or bmayerle.blackrock@gmail.com, if you have any questions or need additional information.

Sincerely,



Brian Mayerle – *Principal Biologist*

Blackrock Environmental Consulting

454 Ramsgate Drive
Vacaville, CA 95687

Attachment – Survey Photos, Project Location, Burrow Locations

Figure 1 - Project Location

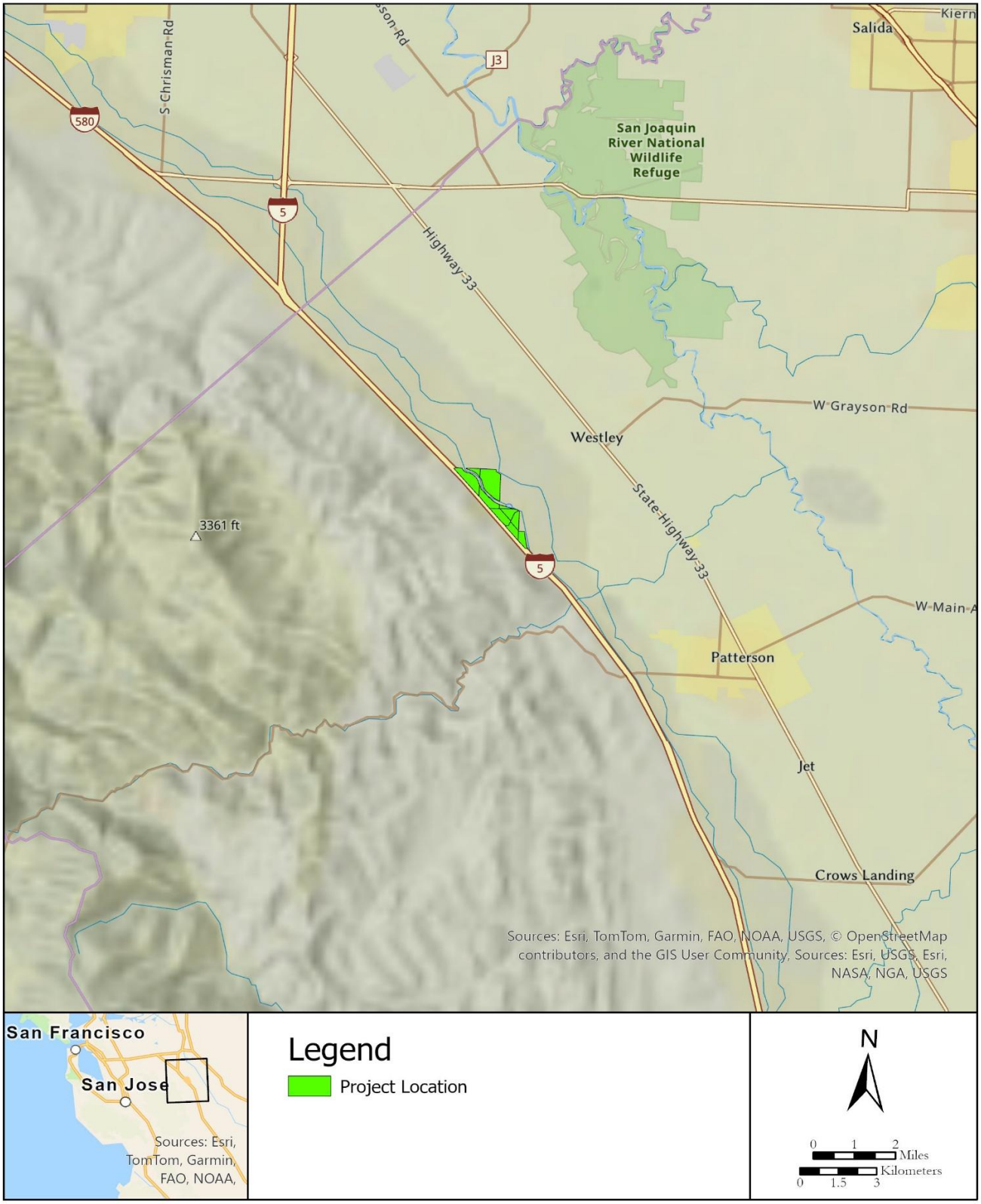
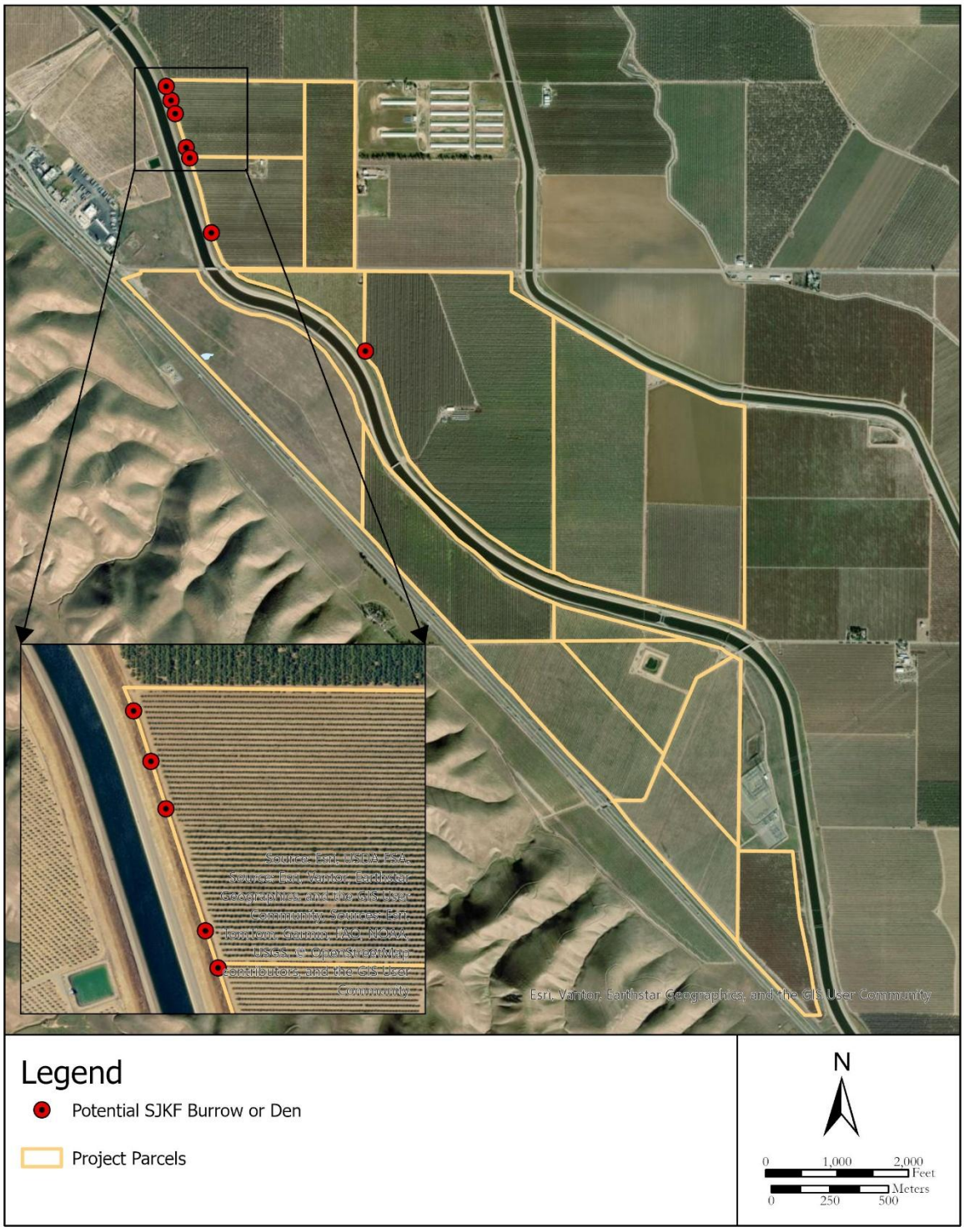


Figure 2. Potential SJKF Burrow/Den Sites Surveyed



Representative Site Photos



Photo 1 Representative Burrow



Photo 2 Representative Burrow



Photo 3 Representative Burrow



Photo 4 Tracking medium at Burrow above



Photo 5 Ground squirrel tail drags at in tracking medium at burrow



Photo 6 Ground squirrel tracks at burrow

A
PHASE I CULTURAL RESOURCE SURVEY
FOR HONDEVILLE ENERGY CENTER (HEC),
STANISLAUS COUNTY, CALIFORNIA

Submitted to:
Elevated Entitlements
5716 Corsa Avenue #201
Westlake Village, California 91362

Keywords:
Westley and Solyo 7.5' Quadrangles, Stanislaus County,
California Environmental Quality Act

Submitted by:
Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, California 93309

Author:
Scott M. Hudlow

August 2024; Revised September 2026

Management Summary

At the request of Elevated Entitlements, a Phase I Cultural Resource Survey was conducted to obtain a Use Permit for the Hondeville Energy Center (HEC), a proposed solar and energy storage project ("Project"). The 738.62-acre property is split into three sections consisting of the southern portion, central portion and northern portion. The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east. The Phase I Cultural Resource Survey consisted of a cultural resource survey of the 738.62-acre parcel, three cultural resource record searches within a one-half mile radius of the project area, and a Sacred Land File Search within a one-mile radius of the project area.

No cultural resources were identified. No further work is required. If cultural resources are encountered during the course of construction, a buffer zone of at least fifty feet in diameter should be established surrounding any cultural resources that are encountered during the course of construction and a qualified archaeologist should be consulted for further evaluation, before ground disturbance activities continue in the area surrounding the inadvertent discovery. However, the likelihood of an inadvertent cultural discovery is quite low.

If human remains or potential human remains are observed during construction, work in the vicinity of the remains will cease, and the remains will be treated in accordance with the provisions of State Health and Safety Code Section 7050.5. The protection of human remains follows California Public Resources Codes, Sections 5097.94, 5097.98, and 5097.99.

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of the Project Area 11-12

1.0 Introduction

At the request of Elevated Entitlements, *Hudlow Cultural Resource Associates* conducted a Phase I Cultural Resource Survey in accordance with the California Environmental Quality Act for a Use Permit to construct and operate a solar and energy storage facility, HEC, intended to provide power and energy to the Turlock Irrigation District (TID), a local public utility. The 738.62-acre property, APNs 021-015-021, -023, -024, -025, -026 & 021-013-001, -018, -020 & 021-007-008, -009 & 016-037-037, -038 and -039, is split into three sections, consisting of the southern portion, central portion and northern portion. The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east. The Phase I Cultural Resource Survey consisted of a cultural resource survey of the 738.62-acre parcel, three cultural resource record searches within a one-half mile radius of the project area, and a Sacred Land File Search within a one mile radius of the project area.

CEQA is a California statute passed in 1970. Governor Ronald Reagan signed it into law, after the federal government passed the National Environmental Policy Act (NEPA). CEQA institutes a statewide policy of environmental protection. CEQA does not directly regulate land uses but instead requires state and local agencies within California to follow a protocol of analysis and public disclosure of environmental impacts of proposed projects and, in a departure from NEPA, adopt all feasible measures to mitigate those impacts. CEQA makes environmental protection a mandatory part of every California state and local agency's decision making process.

CEQA was signed into law in 1970, in a time of increasing public concern for the environment. The statute required that for any public project, the government must conduct an environmental study to examine what impacts the project might have on things like air/water quality, noise, transportation, biological resources, or cultural resources, and generate an Environmental Impact Report (EIR) documenting the impacts as well as any potential and planned mitigations. In 1972, state courts interpreted a public project as a development project that needed government approval.

In 1969, NEPA passed into law. It is similar to CEQA in that both statutes set forth a policy of environmental protection, and a protocol by which all agencies in their respective jurisdictions make environmental protection part of their decision making process. NEPA is narrower in scope than CEQA. NEPA applies only to projects receiving federal funding or approval by federal agencies, while CEQA applies to projects receiving any form of state or local approval, permit, or oversight. Thus, development projects in California funded only by private sources and not requiring approval by a federal agency would be exempt from NEPA; but would likely be subject to CEQA.

The CEQA statute, California Public Resources Code § 21000 et seq., codifies a statewide policy of environmental protection. According to CEQA, state and local agencies

must give consideration to environmental protection in regulating public and private activities and should not approve projects for which feasible and environmentally superior mitigation measures or alternatives exist.

CEQA mandates actions that all state and local agencies must do to advance this policy. Specifically, for any project under CEQA's jurisdiction with potentially significant environmental impacts, agencies must identify mitigation measures and alternatives by preparing an Environmental Impact Report and must approve projects with feasible mitigation measures and the environmentally superior alternative. The California Natural Resources Agency promulgates the CEQA Guidelines, California Code of Regulations Title 14 § 15000 et seq., which detail the protocol by which state and local agencies must comply with CEQA requirements. CEQA originally applied to only public projects, but California Supreme Court interpretation of the statute, as well as later revisions, expanded CEQA's jurisdiction to nearly all projects within California, including those proposed by private businesses and individuals. § 21002.1 states "Each public agency shall mitigate or avoid the significant effects on the environment of projects that it carries out or approves whenever it is feasible to do so." For private projects, CEQA applies when a discretionary government permit or other entitlement for use is necessary.

The term "historical resources" shall include the following: **(1)** A resource listed in or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (Pub. Res. Code § 5024.1, Title 14 CCR, Section 14 CCR, Section 4850 et seq.). **(2)** A resource included in a local register of historical resources, as defined in section 5020.1(k) of the Public Resources Code or identified as significant in an historical resource survey meeting the requirements section 5024.1(g) of the Public Resources Code, shall be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant. **(3)** Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be an historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the California Register of Historical Resources (Pub. Res. Code, § 5024.1, Title 14 CCR, Section 14 CCR, Section 4852) including the following:

(A) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

(B) Is associated with the lives of persons important in our past;

(C) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or

(D) Has yielded, or may be likely to yield, information important in prehistory or history.

The lead agency, Stanislaus County, is responsible for conducting the CEQA review and has final approval of the project. Stanislaus County is also responsible for coordinating with the project applicant, public, and associated agencies during the CEQA process.

2.0 Project Location

The project is in Stanislaus County. The property is in portions of Section 1, T.5S., R.6E.; Sections 6, 7, and 8, T.5S., R.7E., and Section 36, T.4S., R.6E., Mount Diablo Baseline and Meridian, as displayed on the United States Geological Survey (USGS) Westley and Solyo 7.5-minute quadrangle maps (Figure 1). The 738.62-acre property is split into three sections, consisting of the southern portion, central portion and northern portion. The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east (see Figure 1).

3.0 Record Searches

Three record searches of the project area and the environs within one half-mile radius were conducted at the Central California Information Center. Information Center staff conducted record searches, RS# 12640N and RS# 12640N Update, on September 5, 2023 and June 3, 2024. The first record search revealed that ten cultural resource surveys have been conducted within one half-mile radius of the project area, including five surveys that have addressed the current project area (Table 1). Each of these surveys were right-of-way projects crossing portions of the project area (Moratto, *et al*. 1990, Maniery 1995, Canaday, Ostrogorsky, and Hess 1992; Moratto, Pettigrew, Price, Ross, and Schalk 1994; Nave 1999). No surveys have previously directly addressed the portion of the project area in question within the orchards. No cultural resources have been located within the current project area. Two cultural resources have been located within one half-mile radius of the current project area. One of the two cultural resources is the California Aqueduct and the other is a historic transmission line, which is located to the east of the project area. This section of the California Aqueduct through the Project site is not listed on the National Register of Historic Places. The HEC Project will obtain an encroachment permit to cross the California Aqueduct with an overhead transmission line that will connect the two Project sections since the Project will be adjacent to the California Aqueduct.

The second record search, which was conducted because the original parameters of the project were modified through the addition of new acreage to the project area, revealed that eighteen cultural resource surveys have been conducted within one half-mile of the project area, including the same five surveys from the first record search that have addressed the current parcel (Table 1). Each of these surveys were right-of-way projects crossing portions of the project area (see Table 1). No surveys have previously directly addressed the parcel in question within the orchards. No cultural resources have been located on the current project area. Four cultural resources have been located within one half-mile radius outside of the current project area. Two of the cultural resources are the California Aqueduct and the Delta-

Mendota Canal. The third historic resource is a historic transmission line, and the fourth is a historic isolate.

A third record search of the project area and the environs within one half-mile radius was conducted at the Central California Information Center. Information Center staff conducted record search, RS# 13853N, on August 24, 2026. The record search revealed that seven cultural resource surveys have been conducted within one half-mile radius of the project area, including two surveys that have addressed the current project area (Moratto *et al.* 1990 and Moratto *et al* 1994) (Table 1). Both of these surveys were right-of-way projects crossing portions of the project area. No surveys have previously directly addressed the portion of the project area in question within the orchards. No cultural resources have been located within the current project area. Two cultural resources have been located within one half-mile radius of the current project area. One of the two cultural resources is the California Aqueduct and the other is a scatter of historic glass shards. This section of the California Aqueduct adjacent to the Project site is not listed on the National Register of Historic Places. The HEC Project will obtain an encroachment permit to cross the California Aqueduct.

Additionally, a Sacred Lands File Search was requested from the Native American Heritage Commission on November 20, 2024. The search revealed that that the Native American Heritage Commission have no knowledge of any Native American cultural resources located in close proximity to the current Project area (Appendix II). Although, negative results were obtained from the Sacred Lands File Search, which arrived on December 27, 2024. *Hudlow Cultural Resource Associates* sent out Native American consultation letters on December 27, 2024, notifying each interested Stanislaus County Native Contact, per the list provided by the Native American Heritage Commission. Fourteen parties were sent emails. These emails both described the Project and provide maps for further reference. By Friday, January 24, 2025, two parties returned responses (Appendix II). The first email response from the Southern Sierra Miwok was to ask for a copy of the cultural report. Upon receipt of the report, the Southern Sierra Miwok declined to consult on the Project. The second email from the Ohlone stated that the tribe is available for monitoring, if necessary (Appendix II).

4.0 Environmental Background

The Project area is located at elevations between 180 and 350 feet above mean sea level in the central portion of the San Joaquin Valley. The Project area is located west of the San Joaquin River, which is located approximately twelve miles to the east, on the western edge of the San Joaquin Valley against the eastern edge of the Diablo Range, which is part of the larger Coast Range. The Quartenary alluvial soils are a mix of Capay, El Solyo, Stomar, and Zacharias soils, which are clay and loam soil. This Project area is a series of almond orchards, an apricot orchard, cherry orchards, and one fallow field that was an orchard about fifteen years ago (Figures 2-9). No native vegetation survives, except one species of lupine, the Arroyo Lupine (*Lupinus succulentus)*. Sparse weeds and grasses are located within the orchards, except in the field, which now hosts bunch grasses, fiddleneck, and mustard.

5.0 Prehistoric Archaeological Context

A limited amount of archaeological research has been conducted in the southern San Joaquin Valley. Thus, consensus on a generally agreed upon regional cultural chronology has

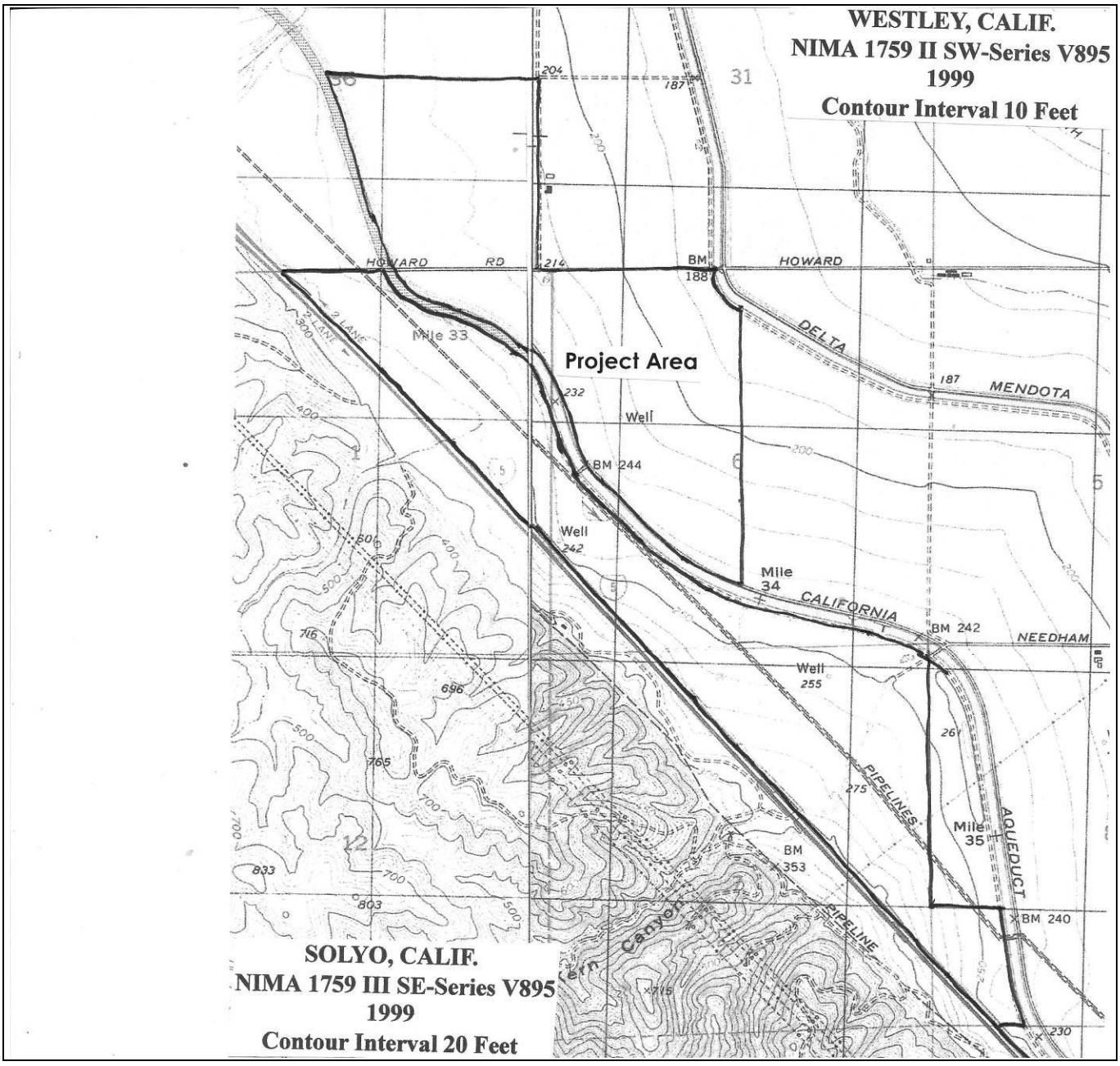


Figure 1
Project Area Location Map

yet to be developed. Most cultural sequences can be summarized into several distinct time periods: Early, Middle, and Late. Sequences differ in their inclusion of various "horizons," "technologies," or "stages." (Moratto 1984) A prehistoric archaeological summary of the San Joaquin Valley is available in Moratto.

Despite the preoccupation with chronological issues in most of the previous research, most suggested chronological sequences are borrowed from other regions with minor modifications based on sparse local data.

The following chronology is based on Parr and Osborne's Paleo-Indian, Proto-Archaic, Archaic, Post-Archaic periods (Parr and Osborne 1992:44-47). Most existing chronologies focus on stylistic changes of time sensitive artifacts such as projectile points and beads rather than addressing the socioeconomic factors, which produced the myriad variations. In doing so, these attempts have encountered similar difficulties. These cultural changes are implied as environmentally determined, rather than economically driven.

Paleo-Indians, who roamed the region approximately 12,000 years ago, were highly mobile individuals. Their subsistence is assumed to have been primarily big game, which was more plentiful 12,000 years ago than in the late twentieth century. However, in the Great Basin and California, Paleo people were also foragers who exploited a wide range of resources. Berries, seeds, and small game were also consumed. Their technology was portable, including manos (Parr and Osborne 1992:44). The paleo period is characterized by fluted Clovis and Folsom points, which have been identified throughout North America. The Tulare Lake region in Kings County has yielded several Paleo-Indian sites, which have included fluted points, scrapers, chipped crescents, and Lake Mojave-type points (Morratto 1984:81-2).

The Proto-Archaic period, which dates from approximately 11,000 to 8,000 years ago, was characterized by a reduction in mobility and conversely an increase in sedentism. This period is classified as the Western Pluvial Lake Tradition or the Proto-Archaic, of which the San Dieguito complex is a major aspect (Moratto 1984: 90-99; Warren 1967). An archaeological site along Buena Vista Lake in southwestern Kern County displays a similar assemblage to the San Dieguito type site. Claude Warren proposes that a majority of Proto-Archaic southern California could be culturally classified as the San Dieguito Complex (Warren 1967). The Buena Vista Lake site yielded manos, millingstones, large stemmed and foliate points, a mortar, and red ochre. During this period, subsistence patterns began to change. Hunting focused on smaller game and plant collecting became more integral. Large stemmed, lancelote (foliate) projectile points represent lithic technology. Millingstones became more prevalent. The increased sedentism possibly began to create regional stylistic and cultural differences not evident in the paleo period.

The Archaic period persisted in California for the next 4000 years. In 1959, Warren and McKusiak proposed a three-phase chronological sequence based on a small sample of burial data for the Archaic period (Moratto 1984:189; Parr and Osborne 1992:47). It is distinguished by increased sedentism and extensive seed and plant exploitation. Millingstones, shaped through use, were abundant. Bedrock manos and metates were the most prevalent types of millingstones (Parr and Osborne 1992:45). The central valley began to develop distinct cultural variations, which can be distinguished by different regions throughout the valley, including Stanislaus County.

Author(s)	Title	Year
Moratto, Michael, et al.	Cultural Resources Assessment Report PGTPG&E Pipeline Expansion Project in Idaho, Washington, Oregon and California; Phase 1: Survey, Inventory, and Preliminary Evaluation of Cultural Resources	1990
Maniery, M.L.	Cultural Resource Inventory and Evaluation of Stanpac #2 Gasoline Project, Stanislaus and San Joaquin Counties, California	1985
Baker, S., L. H. Shoup, and A. E. Staebler	Cultural and Paleontological Resources Study of the Stanpac 2 Replacement Project, San Joaquin, Stanislaus, Merced and Fresno Counties, California	1987
Canaday, T., M. Ostrogorsky, and M. Hess	Archaeological Survey of Right-of-Way Corridor and Extra Work Spaces Construction Spread 5B, California; PGT-PG&E Pipeline Expansion Project, California.	1992
Moratto, M., R. Pettigrew, B. Price, L. Ross, and R. Schalk	Archaeological Investigations PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon, and California.	1994
Nave, T.E.	Cultural Resources Survey for the Turlock Irrigation District Westside Transmission Line Project, Stanislaus and Merced Counties, California.	1999
Flint, Sandra	Letter Report: Addendum Phase 1 Archaeological Survey for the Turlock Irrigation District Westside 115-kV Transmission Line Project.	2000
Sikes, N. E., E. Holmes, and J. Cervantes	Cultural Resources Inventory for the Westley-Marshall Substation and Transmission Line Project, Stanislaus County, California.	2006
Sikes, N. E. and C. J. Arrington	Cultural Resources Inventory of Alternative Substations and Transmission Lines of the Westley-Marshall Project, Stanislaus County, California.	2006
Hudlow, S.M.	A Phase I Cultural Resource Survey for Stanislaus County Solar Farm, Stanislaus County, California.	2023
Palmer, L.	Central Valley Project (CVP) National Register of Historic Places Determination of Eligibility, Multiple Counties, California.	2018
Jordan, N.	Letter Report: South County Corridor Feasibility Study, Cultural Resources Constraints Analysis	2015
Napton, L.	Cultural Resource Investigations of the Stanislaus Motosports Resort (700 Acres), Stanislaus County, California.	1991

Table 1
Cultural Resource Surveys within One-Half Mile Radius of the Project Area

Author(s)	Title	Year
Jackson, D. L and D.D. Somins, eds.	Archaeological Testing and Evaluation Report, 1990-1991 Field Season and Historic Properties Treatment Plan, PGT-PG&E Pipeline Expansion Project. Idaho, Washington, Oregon, and California. Vol IID, Descriptive site Reports and Data Compendia, California	1991
Billat, L.	Letter Report: Nextel Communications Wireless Telecommunications Service Facility-Stanislaus County, California, CA-1680D/Westley, North Side of Howard Road	2000
Chotlowski, M.A.	Letter Report: Section 106 Compliance for Installing a Discharge Pipe on the Delta-Mendota Canal, Stanislaus County, California, California	2008
Bailey, J. Ph.D (2009-Draft) and L. Palmer 2018	California's Central Valley Project: Historic Engineering Features to 1956: A Multiple Property Determination Form, April 2009, National Register of Historic Places Nomination	2018
Bailey, Jim Ph.D	Reclamation, Managing Water in the West: California's Central Valley Project, Historic Engineering Features to 1956	2009

Table 1 (Continued)
Cultural Resource Surveys within One-Half Mile Radius of the Project Area

In the Post-Archaic period enormous cultural variations began manifesting themselves throughout the entire San Joaquin Valley. This period extends into the contact period in the seventeenth, eighteenth and nineteenth centuries. Sedentary village life was emblematic of the Post-Archaic period, although hunting and gathering continued as the primary subsistence strategy. Agriculture was absent in California, partially due to the dense, predictable, and easily exploitable natural resources. The ancestral Yokuts have possibly been in the valley for the last three thousand years, and by the eighteenth century were the largest pre-contact population, approximately 40,000 individuals, in California (Moratto 1984).

6.0 Ethnographic Background

The Yokuts are a Penutian-speaking, non-political cultural group. Penutian speakers inhabit the San Joaquin Valley, the Bay Area, and the Central Sierra Nevada Mountains. The Yokuts are split into three major groups, the Northern Valley Yokuts, the Southern Valley Yokuts, and the Foothill Yokuts.

The southern San Joaquin Valley in the Patterson/Westley area was not home to any single Yokuts village or community (Latta 1999). Yokuts' communities had approximately 350 people, had a special name for themselves, and spoke a unique dialect of the Yokuts



Figure 2
Project Area, Almond Orchard, View to the North, Photo taken, 9/23



Figure 3
Project Area, Immature Non-Producing portion of the Cherry Orchard,
View to the East, Photo taken, 7/2024

language. Land was owned collectively, and every group member enjoyed the right to utilize food resources.

The Southern Valley Yokuts had a mixed economy emphasizing fishing, hunting, fowling, and collecting shellfish, roots, and seeds. Fish were the most prevalent resource and was a productive activity throughout the entire year. Fish were caught in many different manners, including nets, conical basket traps, catching with bare hands, shooting with bows and arrows, and stunning fish with mild floral toxins. Geese, ducks, mud hens and other waterfowl were caught in snares, long-handled nets, stuffed decoys, and brushing brush to trick the birds to fly low into waiting hunters. Mussels were gathered and steamed on beds of tule. Turtles and dogs were consumed (Wallace 1978:449-450).



Figure 4
Project Area, Cherry Orchard, View to the South, Photo taken, 7/2024

Wild seeds and roots provided a large portion of the Yokuts' diet. Tule seeds, grass seeds, fiddleneck, and alfilaria were consumed. Acorns, the staple crop for many California native cultures, are not common in the San Joaquin Valley. Acorns were traded into the area. Land mammals, such as rabbits, ground squirrels, antelope and tule elk, were not taken often (Wallace 1978:450).

The Yokuts occupied permanent structures in permanent villages for most of the year. During the late and early summer, families left for several months to gather seeds and plant foods, shifting camp locations when changing crops. Several different types of fiber-covered structures were common in Yokuts settlements. The largest was a communal tule mat-covered, wedge-shaped structure, which could house ten individuals. These structures were established in a row, with the village chief's house in the middle and his messenger's houses

were located at the ends of the house row. Dance houses and assembly buildings were located outside the village living area (Nabokov and Easton 1989:301).

The Yokuts also built smaller, oval, single-family tule dwellings. These houses were covered with tall mohya stalks or with sewn tule mats. Bent-pole ribs that met a ridgepole held by two crotched poles framed these small houses. The Yokuts also built a cone-shaped dwelling, which was framed with poles tied together with a hoop and then covered with tule or grass. These cone-shaped dwellings were large enough to contain multiple fireplaces (Nabokov and Easton 1989:301). Other structures included mat-covered granaries for storing food supplies, and a dirt-covered, communally owned sweathouse.

Clothing was minimal, men wore a breechclout or were naked. Women wore a narrow-fringed apron. Cold temperatures brought out rabbitskin or mud hen blankets. Moccasins were worn in certain places; however, most people went barefoot. Men wore no head coverings, but women wore basketry caps when they carried burden baskets on their heads. Hair was worn long. Women wore tattoos from the corners of the mouth to the chin; both men and women had ear and nose piercings. Bone, wood or shell ornaments were inserted (Wallace 1978:450-451).

Tule dominated the Yokut's material culture. It was used for many purposes, including sleeping mats, wall coverings, cradles, and basketry. Ceramics are uncommon to Yokuts culture as is true throughout most California native cultures. Basketry was common to Yokuts culture. Yokuts made cooking containers, conical burden baskets, flat winnowing trays, seed beaters, and necked water bottles. Yokuts also manufactured wooden digging sticks, fire drills, mush stirrers, and sinew-backed bows. Knives, projectile points, and scraping tools were chipped from imported lithic materials including obsidian, chert, and chalcedony. Stone mortars and pestles were secured in trade. Cordage was manufactured from milkweed fibers, animal skins were tanned, and awls were made from bone. Marine shells, particularly olivella shells, were used in the manufacture of money and articles of personal adornment. Shells were acquired from the Chumash along the coast (Wallace 1978:451-453).

The basic social and economic unit was the nuclear family. Lineages were organized along patrilineal lines. Yokuts fathers transmitted totems, particular to each paternal lineage, to each of his children. The totem was an animal or bird that no member would kill or eat and that was dreamed of and prayed to. The mother's totem was not passed to her offspring; but was treated with respect. Families sharing the same totem formed an exogamous lineage. The lineage had no formal leader nor did it own land. The lineage was a mechanism for transmitting offices and performing ceremonial functions. The lineages formed two moieties, East and West, which consisted of several different lineages. Moieties were customarily exogamous. Children followed the paternal moiety. Certain official positions within the villages were associated with certain totems. The most important was the Eagle lineage from which the village chief was appointed. A member of the Dove lineage acted as the chief's assistant. He supervised food distribution and gave commands during ceremonies. Another hereditary position was common to the Magpie lineage, was that of spokesman or crier.

7.0 Historical Overview

Stanislaus County, which was formed from portions of San Joaquin and Toulumne counties was settled in the 1850s. This was soon after California joined the United States after the passage of the Compromise of 1850. The Compromise of 1850 allowed California to join the Union as a free state even though a major portion of the state lay beneath the Missouri Compromise line; and was potentially subject to southern settlement and slavery. Americans had long been visiting and working in California prior to the admission of California into the Union.



Figure 5
Project Area, Fallow Field, View to the West, Photo taken, 9/2023

The Spanish moving north from Baja California into Alta California began the European settlement of California in 1769. Father Junipero Serra, a Franciscan friar founded Mission San Diego de Alcala, beginning California active European settlement. However, Spanish mission efforts were focused on California's coastal regions. Spanish exploration of the San Joaquin Valley region began in the 1770s. In 1772, Pedro Fages arrived in the San Joaquin Valley searching for army deserters. Father Francisco Garces, a Franciscan priest, soon visited the vicinity in 1776. Gabriel Moraga explored both the Sacramento Valley and the San Joaquin Valley in 1805-1806, primarily in the central section of the valley, including modern Stanislaus County, which was named for Estanislao, a mission-educated, renegade Native American. The Spanish version of his name was Stanislaus. The Spanish empire collapsed in 1820, all of Spain's former Central and South American colonies became independent nations. As a result, California became Mexican territory. California stayed in Mexican hands until the



Figure 6
Project Area, Cherry Orchard, View to the West, Photo taken, 2/2026



Figure 7
Project Area, Weed Choked Field, View to the East, Photo taken, 2/2026

Mexican-American War. Mexican California remained a coastal society with little interest in settling in California's hot, dry, interior valleys.

Jedediah Smith, Kit Carson, and Joseph Walker were looking for commercial opportunities in the 1820s, beginning American exploration of the San Joaquin Valley. The United States government began formally exploring California in the 1830s and 1840s, while California was still Mexican Territory. Soon, the Americans were searching for intercontinental railroad routes to link the eastern and western halves of the continent, prominently by John C. Fremont.

The defeat of the Mexicans during the Mexican-American War and the subsequent discovery of gold drastically altered the complicated political realities of the west. The Mexican-American War was ostensibly fought to settle a boundary dispute with the Mexicans over the western boundary of the newly-annexed state of Texas, which had fought a successful rebellion against the Mexican Army in the mid-1830s. The Republic of Texas was an independent country for nine years until the United States annexed Texas in 1845. One major outcome of the Mexican-American War was that Mexico rescinded its claims to much of the American southwest. In 1848, these territories were folded into the United States, including California.

In January 1848, the discovery of gold in Coloma, California changed the settlement of California, forever. In the summer of 1848, when the gold strike was publicly announced, the immediate settlement of California began. The Mexican population of California was small and limited to the coasts and a few of southern California's interior valleys. A sizable native population settled the remainder of California; Madera County was Yokuts territory. The Gold Rush tipped the balance of native communities throughout California, as many of California's natives were decimated.

In 1854, Stanislaus County was created from the western half of Toulumne County. The first county seat was at Adamsville, which is west of modern-day Modesto along the Toulumne River. By 1871, the county seat had moved to the newly-established city of Modesto which lies on the also newly-established Southern Pacific rail line, which was headed south from Oakland heading to Los Angeles and southern California.

While farmers were settling in the valley, cattle ranchers, timber mill operators, and resort operators settled the heavily timbered highlands of the southern Sierra Mountains. Yosemite Valley was opening for tourism in the latter half of the nineteenth century, as well. However, the long-term future of Stanislaus County, particularly in the valley portion of the county was in agriculture. Grapes, table and wine, and nuts, almonds, pistachios, and walnuts, became the primary agricultural crops.



Figure 8
Project Area, Apricot Orchard, North Side of Howard Road,
View to the Northeast, Photo taken, 8/2026



Figure 9
Project Area, Almond Orchard, North Side of Howard Road,
View to the West, Photo taken, 8/2026

8.0 Field Procedures and Methods

Between September 5-13, 2023, July 20-27, 2024, February 11-13, 2026, and August 28-30, 2026, Scott M. Hudlow (for qualifications see Appendix I) conducted a pedestrian cultural resource survey of the entire proposed project area. Hudlow surveyed in both east/west and north/south transects in 10-meter (33 feet) intervals across the orchards and fields depending on the field patterns. No portions of the Project area were excluded, and the surface visibility was excellent, since the project area was surveyed during three distinct seasons, except for the fallow field along Howard Road, which was covered in weeds, during the survey session in February 2026. The only ground disturbances are orchards, belowground watering equipment, and farm roads.

9.0 Report of Archaeological Findings

No cultural resources were identified; the agricultural buildings, mobile home, and agricultural equipment are modern. A mobile home has been present on the property since the 1990s. The project area has been planted in either orchards or row crops since the 1950s.

10.0 Management Recommendations

No cultural resources were identified. No further work is required. If cultural resources are encountered during the course of construction, a buffer zone of at least fifty feet in diameter should be established surrounding any cultural resources that are encountered during the course of construction and a qualified archaeologist should be consulted for further evaluation, before ground disturbance activities continue in the area surrounding the inadvertent discovery. However, the likelihood of an inadvertent cultural discovery is quite low.

If human remains or potential human remains are observed during construction, work in the vicinity of the remains will cease, and the remains will be treated in accordance with the provisions of State Health and Safety Code Section 7050.5. The protection of human remains follows California Public Resources Codes, Sections 5097.94, 5097.98, and 5097.99.

11.0 References

Bailey, Jim, PhD.
2009 *Reclamation, Managing Water in the West: California's Central Valley Project, Historic Engineering Features to 1956.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Bailey, J. Ph.D (2009-Draft) and L. Palmer
2018 *California's Central Valley Project: Historic Engineering Features to 1956: A Multiple Property Determination Form, April 2009, National Register of Historic Places Nomination.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Baker, S., L. H. Shoup, and A. E. Staebler
1987 *Cultural and Paleontological Resources Study of the Stanpac 2 Replacement Project, San Joaquin, Stanislaus, Merced and Fresno Counties, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Billat, L.
2000 *Letter Report: Nextel Communications Wireless Telecommunications Service Facility-Stanislaus County, California, CA-1680D/Westley, North Side of Howard Road.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Canaday, T., M. Ostrogorsky, and M. Hess
1992 *Archaeological Survey of Right-of-Way Corridor and Extra Work Spaces Construction Spread 5B, California; PGT-PG&E Pipeline Expansion Project, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Chotlowski, M.A.
2008 *Letter Report: Section 106 Compliance for Installing a Discharge Pipe on the Delta-Mendota Canal, Stanislaus County, California, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Flint, Sandra
2000 *Letter Report: Addendum Phase 1 Archaeological Survey for the Turlock Irrigation District Westside 115-kV Transmission Line Project.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Hudlow, Scott M.
2023 *A Phase I Cultural Resource Survey for Stanislaus County Solar Farm, Stanislaus County, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Jackson, D. L and D. D. Somins, eds.
1991 *Archaeological Testing and Evaluation Report, 1990-1991 Field Season and Historic Properties Treatment Plan, PGT-PG&E Pipeline Expansion Project. Idaho, Washington, Oregon, and California. Vol IID, Descriptive site Reports and Data Compendia, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Jordan, N.
2015 *Letter Report: South County Corridor Feasibility Study, Cultural Resources Constraints Analysis.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Latta, Frank F.
1999 *Handbook of Yokuts Indians*. Coyote Press, Salinas, California.

Maniery, M. L.
1985 *Cultural Resource Inventory and Evaluation of Stanpac #2 Gasoline Project, Stanislaus and San Joaquin Counties, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Moratto, Michael J.
1984 *California Archaeology*. Academic Press, Orlando, Florida.

Moratto, Michael, *et al*.
1990 *Cultural Resources Assessment Report PGT PG&E Pipeline Expansion Project in Idaho, Washington, Oregon and California; Phase 1: Survey, Inventory, and Preliminary Evaluation of Cultural Resources.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Moratto, Michael, R. Pettigrew, B. Price, L. Ross, and R. Schalk
1994 *Archaeological Investigations PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon, and California, Volumes 1-V (1994-1995).* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Nabokov, Peter and Robert Easton
1989 *Native American Architecture*. Oxford University Press, New York, New York.

Napton, L.
1991 *Cultural Resource Investigations of the Stanislaus Motosports Resort (700 Acres), Stanislaus County, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Nave, T.
1999 *Cultural Resources Survey for the Turlock Irrigation District Westside Transmission Line Project, Stanislaus and Merced Counties, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Palmer, L.
2018 *Central Valley Project (CVP) National Register of Historic Places Determination of Eligibility, Multiple Counties, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Parr, Robert E. and Richard Osborne
1992 *Route Adoption Study for Highway 58, Kern County, California.* Report on file, Southern San Joaquin Archaeological Information Center, California State University, Bakersfield, Bakersfield, California.

Sikes, N. E., E. Holmes, and J. Cervantes
2006 *Cultural Resources Inventory for the Westley-Marshall Substation and Transmission Line Project, Stanislaus County, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Sikes, N. E. and C. J. Arrington
2006 *Cultural Resources Inventory of Alternative Substations and Transmission Lines of the Westley-Marshall Project, Stanislaus County, California.* Report on file, Central California Information Center, California State University, Stanislaus, Turlock, California.

Wallace, William J.
1978 "Southern Valley Yokuts" in *Handbook of North American Indians*. Vol. 8, California, Robert F. Heizer, ed. Washington, D.C.: Smithsonian Institution, pp. 437-445.

Warren, Claude N. and M. B. McKusiak
1959 A Burial Complex from the southern San Joaquin Valley. Los Angeles: *University of California, Los Angeles, Archaeological Survey Annual Report, 1959*: 17-26.

Warren, Claude N.
1967 "The San Dieguito Complex: A Review and Hypothesis" *American Antiquity* 32(2): 168-185.

Appendix I

Scott M. Hudlow
1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183

Education

The George Washington University
M.A. American Studies, 1993
Specialization in Historical Archaeology
and Architectural History

University of California, Berkeley
B.A. History, 1987
B.A. Anthropology, 1987
Specialization in Historical Archaeology
and Colonial History

Public Service

3/94-12/02 *Historic Preservation Commission*. City of Bakersfield, Bakersfield, California 93305.

7/97-12/01 *Newsletter Editor. California History Action,* newsletter for the California Council for the Promotion of History.

Relevant Work Experience

8/96- *Adjutant Faculty*. Bakersfield College, 1801 Panorama Drive, Bakersfield, California, 93305. Teach History 17A, Introduction to American History and Anthropology 5, Introduction to North American Indians.

Owner, Sole Proprietorship. Hudlow Cultural Resource Associates. 1405 Sutter Lane, Bakersfield California 93309. Operate small cultural resource management business. Manage contracts, respond to RFP's, bill clients, manage temporary employees. Conduct Phase I archaeological and architectural surveys for private and public clients; including the cultural resource survey, documentary photography, measured drawings, mapping of structures, filing of survey forms, historic research, assessing impact and writing reports. Evaluated archaeological and architectural sites and properties in lieu of their eligibility for the National Register of Historic Places in association with Section 106 and 110 requirements of the National Historic Preservation Act of 1966 and CEQA (California Environmental Quality Act).

Full resume is available upon request.

Appendix II

CENTRAL CALIFORNIA INFORMATION CENTER
California Historical Resources Information System
Department of Anthropology – California State University, Stanislaus
One University Circle, Turlock, California 95382
(209) 667-3307

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

Date: 9/5/2023

Records Search File No.: 12640N
Project: Elevated 23-01

Scott M. Hudlow
Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, CA 93309
661-834-9183 shudlow@sbcglobal.net

Dear Mr. Hudlow:

The Central California Information Center received your record search request for the project area/radius referenced above, located on the Solyo and Westley 7.5' quadrangles in Stanislaus County. The following reflects the results of the records search for the project study area and radius:

As per data currently available at the CCalC, the locations of resources/reports are provided in the following format: ☒ custom GIS maps ☐ GIS Data/shape files

Summary Data:

Resources within the project area:	None formally reported to the Information Center.
Resources within the 1/2-mile radius:	2: P-50-001903, 2328
Reports within the project area:	5: ST-00621, 749, 1846, 2753, 3630
Reports within the 1/2-mile radius:	5: ST-00912, 4175, 6133, 6384, 8638

Resource Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Report Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Report Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed
Report Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Resource Record Copies:	☒ enclosed	☐ not requested	☐ nothing listed
Report Copies:	☐ enclosed	☒ not requested	☐ nothing listed

OHP Historic Properties Directory: New Excel File: Built Environment Resource Directory (BERD) Dated 9/23/2022
Not all resources listed in the BERD are mapped in GIS, nor do we have records on file for; if you identify additional resources in the BERD that you need copies of, contact the IC.
☐ enclosed ☒ not requested ☐ nothing listed

Archaeological Resource Directory (ARD excerpt):	☐ enclosed	☒ not requested	☐ nothing listed
CA Inventory of Historic Resources (1976):	☐ enclosed	☒ not requested	☐ nothing listed
Caltrans Bridge Survey:	☐ enclosed	☒ not requested	☐ nothing listed
Ethnographic Information:	☐ enclosed	☒ not requested	☐ nothing listed

CENTRAL CALIFORNIA INFORMATION CENTER
California Historical Resources Information System
Department of Anthropology – California State University, Stanislaus
One University Circle, Turlock, California 95382
(209) 667-3307

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

Date: 6/3/2024

Records Search File No.: 12931N
Project: Elevated 24-01; Update 12640N

Scott M. Hudlow
Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, CA 93309
661-834-9183 shudlow@sbcglobal.net

Dear Mr. Hudlow:

The Central California Information Center received your record search request for the project area/radius referenced above, located on the Solyo and Westley 7.5' quadrangles in Stanislaus County. The following reflects the results of the records search for the project study area and radius:

As per data currently available at the CCaIC, the locations of resources/reports are provided in the following format: ☒ custom GIS maps ☐ GIS Data/shape files

Summary Data:

Resources within the project area:	None formally reported to the Information Center.
Resources within the 1/2-mile radius:	4: P-50-000012, 001903, 1904, 2328
Reports within the project area:	10: ST-00621, 749, 853, 1846, 2753, 3630, 4175, 6133, 6384, 9727
Reports within the 1/2-mile radius:	5: ST-00912, 4649, 6972, 7779, 8638

Resource Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Report Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Report Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed
Report Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Resource Record Copies:	☒ enclosed	☐ not requested	☐ nothing listed
Report Copies:	☐ enclosed	☒ not requested	☐ nothing listed

OHP Historic Properties Directory: New Excel File: Built Environment Resource Directory (BERD)
Dated 9/23/2022
Not all resources listed in the BERD are mapped in GIS, nor do we have records on file for; if you identify additional resources in the BERD that you need copies of, contact the IC.

☐ enclosed ☒ not requested ☐ nothing listed

Archaeological Resource Directory (ARD excerpt): ☐ enclosed ☒ not requested ☐ nothing listed

CA Inventory of Historic Resources (1976): ☐ enclosed ☒ not requested ☐ nothing listed

Caltrans Bridge Survey: ☐ enclosed ☒ not requested ☐ nothing listed

Ethnographic Information: ☐ enclosed ☒ not requested ☐ nothing listed

Historical Literature: ☐ enclosed ☒ not requested ☐ nothing listed

Historical Maps: ☐ enclosed ☒ not requested ☐ nothing listed

Local Inventories: ☐ enclosed ☒ not requested ☐ nothing listed

GLO and/or Rancho Plat Maps: ☐ enclosed ☒ not requested ☐ nothing listed

Shipwreck Inventory: ☒ not available at CCIC; please go to http://shipwrecks.slc.ca.gov/ShipwrecksDatabase/Shipwrecks_Database.asp

Soil Survey Maps: ☒ not available at CCIC; please go to http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

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

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

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

Thank you for using the California Historical Resources Information System (CHRIS). **Note:** Billing will be transmitted separately via email by our Financial Services office* ($379.80), payable within 60 days of receipt of the invoice.

If you wish to include payment by Credit Card, you must wait to receive the official invoice from Financial Services so that you can reference the CMP # (Invoice Number), and then contact the link below:

https://commerce.cashnet.com/ANTHROPOLOGY

Sincerely,



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

* Invoice Request sent to: ARBilling@csustan.edu, CSU Stanislaus Financial Services

CENTRAL CALIFORNIA INFORMATION CENTER
California Historical Resources Information System
Department of Anthropology – California State University, Stanislaus
One University Circle, Turlock, California 95382
(209) 667-3307

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

Date: 8/24/2026

Records Search File No.: 13853N
Project: Elevated 26-01, Howard Road
East of California Aqueduct

Scott M. Hudlow
Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, CA 93309
661-834-9183

shudlow@sbcglobal.net

The Central California Information Center received your record search request for the project area referenced above, located on the Solyo & Westley 7.5' quadrangles in Stanislaus County. The following reflects the results of the records search for the project study area and radius:

As per data currently available at the CCaIC, the locations of resources/reports are provided in the following format: ☒ custom GIS maps ☐ GIS Data/shape files

Summary Data:

Resources within the project area:	None formally reported to the Information Center.
Resources within the 1/4-mile radius:	2: P-50-000012, 1903
Reports within the project area:	2: ST-00621, 2753
Reports within the 1/4-mile radius:	4: ST-00749, 853, 1846, 4649

Resource Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Report Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Report Database Printout (details):	☒ enclosed	☐ not requested	☐ nothing listed
Report Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Resource Record Copies:	☐ enclosed	☒ not requested	☐ nothing listed
Report Copies:	☐ enclosed	☒ not requested	☐ nothing listed

OHP Historic Properties Directory: Current Excel File: Built Environment Resource Directory (BERD)
Not all resources listed in the BERD are mapped in GIS, nor do we have records on file for; if you identify additional resources in the BERD that you need copies of, contact the IC.
☐ enclosed ☒ not requested ☐ nothing listed

Archaeological Determinations of Eligibility: (ARD Excerpt):
☐ enclosed ☒ not requested ☐ no **evaluations** listed

CA Inventory of Historic Resources (1976): ☐ enclosed ☒ not requested ☐ nothing listed

Caltrans Bridge Survey: ☐ enclosed ☒ not requested ☐ nothing listed

Ethnographic Information: ☐ enclosed ☒ not requested ☐ nothing listed

Historical Literature: ☐ enclosed ☒ not requested ☐ nothing listed

Historical Maps: ☐ enclosed ☒ not requested ☐ nothing listed
See also: http://ngmdb.usgs.gov>topoview

Local Inventories: ☐ enclosed ☒ not requested ☐ nothing listed

GLO and/or Rancho Plat Maps: ☐ enclosed ☒ not requested ☐ nothing listed
See also: https://glorecords.blm.gov

Shipwreck Inventory: ☒ not available at CCaIC; please go to http://shipwrecks.slc.ca.gov/ShipwrecksDatabase/Shipwrecks_Database.asp

Soil Survey Maps: ☒ not available at CCaIC; please go to http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

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

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search

area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

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

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

Note: Billing will be transmitted separately via email by our Financial Services office* ($227.10), payable within 60 days of receipt of the invoice.

If you wish to include payment by Credit Card, you must wait to receive the official invoice from Financial Services so that you can reference the CMP # (Invoice Number), and then contact the link below:

https://commerce.cashnet.com/ANTHROPOLOGY

Sincerely,

E. A. Greathouse

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

* Invoice Request sent to: ARBilling@csustan.edu, CSU Stanislaus Financial Services

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-50-000012		Resource Name - PEP 12-ISO-4	Other	Historic	AH16	1992 (G. Bowyer, Infotech Research, Inc.)	ME-01846, ME-02753, SJ-02753, ST-01846, ST-02753
P-50-001903		Resource Name - California Aqueduct	Structure	Historic	HP20	2004 (Richard Deis, EDAW, Inc.); 2006 (Cindy J. Arrington, SWCA Environmental Consultants); 2007 (Carey & Co.); 2011 (P. Ambacher, AECOM); 2018 (Miller and Beck, AECOM); 2020 (Coleman & Millen, Solano Archaeological Services)	ST-05482, ST-06133, ST-06384, ST-07387, ST-07527, ST-08055, ST-08056, ST-08057, ST-08058, ST-08252, ST-08592, ST-08960, ST-09233

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
ST-00621	NADB-R - 1366258	1990	Moratto, M., et al.	Cultural Resources Assessment Report PGT-PG&E Pipeline Expansion Project in Idaho, Washington, Oregon and California; Phase 1: Survey, Inventory, and Preliminary Evaluation of Cultural Resources [CCIC has only a partial copy of report].	INFOTEC Research, Inc. and BioSystems Analysis, Inc.	24-000002, 24-000161, 24-000172, 24-000181, 24-000393, 50-000111, 50-000128, 50-000300
ST-00749	NADB-R - 1361706	1985	Maniery, M. L.	Cultural Resource Inventory and Evaluation of Stanpac #2 Gasoline Project, Stanislaus and San Joaquin Counties, California.	Public Anthropological Research	50-000300
ST-00853	NADB-R - 1361519	1987	Baker, S., L. H. Shoup, and A. E. Staebler	Cultural and Paleontological Resources Study of the Stanpac 2 Replacement Project, San Joaquin, Stanislaus, Merced and Fresno Counties, California	Archaeological Consultants, Oakland, CA (prepared for PGE)	24-000172, 24-000181, 50-000300
ST-01846	NADB-R - 1366053; Other - 20822-SC-41	1992	Canaday, T., M. Ostrogorsky, and M. Hess	Archaeological Survey of Right-of-Way Corridor and Extra Work Spaces Construction Spread 5B, California; PGT-PG&E Pipeline Expansion Project, California.	Infotec Research, Inc.	50-000012, 50-000104, 50-000300, 50-000368
ST-02753	NADB-R - 1366242	1994	Moratto, M., R. Pettigrew, B. Price, L. Ross, and R. Schalk	Archaeological Investigations PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon, and California, Volumes 1-V (1994-1995). [Only Vol. I and IV are unbound and available at CCIC; Vol. I = Project Overview, Research Design and Archaeological Inventory; Vol. IV = Synthesis of Findings].	INFOTEC Research, Inc.	24-000002, 24-000019, 24-000035, 24-000036, 24-000037, 24-000161, 24-000172, 24-000181, 24-000393, 39-000048, 50-000012, 50-000111, 50-000300
ST-02753A		1991	Jackson, D. L. (ed.), D. D. Somins (ed.), and Holson J. et al. (authrors)	Archaeological Testing and Evaluation Report 1990-1991 Field Season and Historic Properties Treatment Plan, PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon and California Vol. IID: Descriptive Site Reports and Data Compemdia, California [Stanislaus County]	INFOTEC Rsearch, Inc. and BioSystems Analysis, Inc.	
ST-04649	NADB-R - 1364564	2000	Billat, L. B.	Letter Report: Nextel Communications Wireless Telecommunications Service Facility - Stanislaus County, California, CA-1680D/Westley, North Side of Howard Road	EarthTouch LLC	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
ST-00621	NADB-R - 1366258	1990	Moratto, M., et al.	Cultural Resources Assessment Report PGT-PG&E Pipeline Expansion Project in Idaho, Washington, Oregon and California; Phase 1: Survey, Inventory, and Preliminary Evaluation of Cultural Resources [CCIC has only a partial copy of report].	INFOTEC Research, Inc. and BioSystems Analysis, Inc.	24-000002, 24-000161, 24-000172, 24-000181, 24-000393, 50-000111, 50-000128, 50-000300
ST-00749	NADB-R - 1361706	1985	Maniery, M. L.	Cultural Resource Inventory and Evaluation of Stanpac #2 Gasoline Project, Stanislaus and San Joaquin Counties, California.	Public Anthropological Research	50-000300
ST-00853	NADB-R - 1361519	1987	Baker, S., L. H. Shoup, and A. E. Staebler	Cultural and Paleontological Resources Study of the Stanpac 2 Replacement Project, San Joaquin, Stanislaus, Merced and Fresno Counties, California	Archaeological Consultants, Oakland, CA (prepared for PGE)	24-000172, 24-000181, 50-000300
ST-00912	NADB-R - 1361746	1991	Napton, L. K.	Cultural Resource Investigations of the Stanislaus Motorsport Resort (700 Acres), Stanislaus County, California	California State Universtiy, Stanislaus Institute for Archaeological Research for Kinst Company	50-000008, 50-000352
ST-01846	NADB-R - 1366053; Other - 20822-SC-41	1992	Canaday, T., M. Ostrogorsky, and M. Hess	Archaeological Survey of Right-of-Way Corridor and Extra Work Spaces Construction Spread 5B, California; PGT-PG&E Pipeline Expansion Project, California.	Infotec Research, Inc.	50-000012, 50-000104, 50-000300, 50-000368
ST-02753	NADB-R - 1366242	1994	Moratto, M., R. Pettigrew, B. Price, L. Ross, and R. Schalk	Archaeological Investigations PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon, and California, Volumes 1-V (1994-1995). [Only Vol. I and IV are unbound and available at CCIC; Vol. I = Project Overview, Research Design and Archaeological Inventory; Vol. IV = Synthesis of Findings].	INFOTEC Research, Inc.	24-000002, 24-000019, 24-000035, 24-000036, 24-000037, 24-000161, 24-000172, 24-000181, 24-000393, 39-000048, 50-000012, 50-000111, 50-000300
ST-02753A		1991	Jackson, D. L. (ed.), D. D. Somins (ed.), and Holson J. et al. (authrors)	Archaeological Testing and Evaluation Report 1990-1991 Field Season and Historic Properties Treatment Plan, PGT-PG&E Pipeline Expansion Project, Idaho, Washington, Oregon and California Vol. IID: Descriptive Site Reports and Data Compemdia, California [Stanislaus County]	INFOTEC Rsearch, Inc. and BioSystems Analysis, Inc.	
ST-03630	NADB-R - 1363545	1999	Nave, T. E.	Cultural Resources Survey for the Turlock Irrigation District Westside Transmission Line Project, Stanislaus and Merced Counties, California	Applied Earthworks, Inc. for Russell Associates	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
ST-04175	NADB-R - 1364048	2000	Flint, Sandra S.	Letter Report: Addendum Phase 1 Archaeological Survey for the Turlock Irrigation District Westside 115-kV Transmission Line Project	Applied Earthworks Inc. for Russell Associates	50-000007, 50-000300
ST-04649	NADB-R - 1364564	2000	Billat, L. B.	Letter Report: Nextel Communications Wireless Telecommunications Service Facility - Stanislaus County, California, CA-1680D/Westley, North Side of Howard Road	EarthTouch LLC	
ST-06133	NADB-R - 1366152	2006	Sikes, N. E., E. Holmes, and J. Cervantes	Cultural Resources Inventory for the Westley-Marshall Substation and Transmission Line Project, Stanislaus County, California	SWCA Environmental Consultants for CH2M Hill	50-001903, 50-001904
ST-06384	NADB-R - 1366616	2006	Sikes, N. E. and C. J. Arrington	Cultural Resources Inventory of Alternative Substations and Transmission Lines of the Westley-Marshall Project, Stanislaus County, California	SWCA Environmental Consultants for CH2M Hill	50-001903, 50-001904
ST-06972	NADB-R - 1367266	2008	Chotkowski, M. A.	Letter Report: Section 106 Compliance for Installating a Discharge Pipe on the Delta-Mendota Canal, Stanislaus County, California (Tracking #08-SCAO-319)	Bureau of Reclamation	
ST-07779		2018	Bailey, J., Ph.D. (2009 Draft) and Palmer, L. (2018)	California's Central Valley Project: Historic Engineering Features to 1956: A Multiple Property Documentation Form, April 2009 (National Register of Historic Places Nomination).	Bureau of Reclamation	50-001904
ST-07779A		2009	Bailey, Jim,. Ph.D.	Reclamation, Managing Water in the West: California's Central Valley Project: Historic Engineering Features to 1956	Bureau of Reclamation	
ST-07779B		2018	Palmer, L.	Central Valley Project (CVP), National Register of Historic Places Determinations of Eligibility, Multiple Counties, California. Bureau of Reclamation, Mid-Pacific Region Division of Environmental Affairs, Cultural Resources Branch, Sacramento. Central Valley Project (CVP), National Register of Historic Places Determinations of Eligibility, Multiple Counties, California. Bureau of Reclamation, Mid-Pacific Region Division of Environmental Affairs, Cultural Resources Branch, Sacramento.	Bureau of Reclamation	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
ST-08638		2015	Jordan, N.	Letter Report: South County Corridor Feasibility Study - Cultural Resources Constraints Analysis	LSA, for Edward Heming and for Caltrans District 10	
ST-09727		2023	Hudlow, S. M.	A Phase I Cultural Resource Survey for Stanislaus County Solar Farm, Stanislaus County, California	Hudlow Cultural Resource Associates for Elevated Entitlements	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-50-000012		Resource Name - PEP 12-ISO-4	Other	Historic	AH16	1992 (G. Bowyer, Infotech Research, Inc.)	ME-01846, ME-02753, SJ-02753, ST-01846, ST-02753
P-50-001903		Resource Name - California Aqueduct	Structure	Historic	HP20	2004 (Richard Deis, EDAW, Inc.); 2006 (Cindy J. Arrington, SWCA Environmental Consultants); 2007 (Carey & Co.); 2011 (P. Ambacher, AECOM); 2018 (Miller and Beck, AECOM); 2020 (Coleman & Millen, Solano Archaeological Services)	ST-05482, ST-06133, ST-06384, ST-07387, ST-07527, ST-08055, ST-08056, ST-08057, ST-08058, ST-08252, ST-08592, ST-08960, ST-09233
P-50-001904		Resource Name - Delta Mendota Canal	Structure	Historic	HP20	2003 (B. Larson, E. Johnson, JRP historical Consulting Services); 2004 (R. Deis, EDAW, Inc.); 2006 (Cindy J. Arrington, SWCA Environmental Consultants); 2006 (Cindy J. Arrington, SWCA Environmental Consultants); 2006 (James Bailey, Historian, US Bureau of Reclamation); 2007 (Carey & Co., Carey & Co.); 2010 (P. Ambacher & D. Lemon, ICF International); 2016 (Asselin, K., Applied EarthWorks, Inc.)	SJ-07779, SJ-08257, ST-05482, ST-06133, ST-06384, ST-07260, ST-07387, ST-07527, ST-07595, ST-07779, ST-07826, ST-07967, ST-07968, ST-08251, ST-08252, ST-08255, ST-08257, ST-08265, ST-08341, ST-08594, ST-08794, ST-08993
P-50-002328		Resource Name - Tesla-Salado-Manteca 115 kV Transmission Line	Structure	Historic	HP11	2017 (M. Walker, Cardo, Inc., for PG&E)	

Solar Project SLF Search
Yahoo/Sent

Scott Hudlow

From: shudlow@sbcglobal.net

To: NAHC

Wed, Nov 20, 2024 at 1:26 PM

Hi,

I need another SLF search for a completed project in Stanislaus County. Thanks. Scott Hudlow, HCRA

Download all attachments as a zip file

- scan0145.jpg

  780.7kB

- scan0096.jpg

  1.5MB

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Elevated 23-01

County: ~~Stanis~~ Stanislaus

USGS Quadrangle Name: Westley & Sdyo

Township: T5S **Range:** R7E **Section(s):** 6, 7, 8

T5S R6E S.1

Company/Firm/Agency: Hidlow Cultural Resource Associates

Street Address: 1405 Sutter Lane

City: Bakersfield, CA **Zip:** 93309

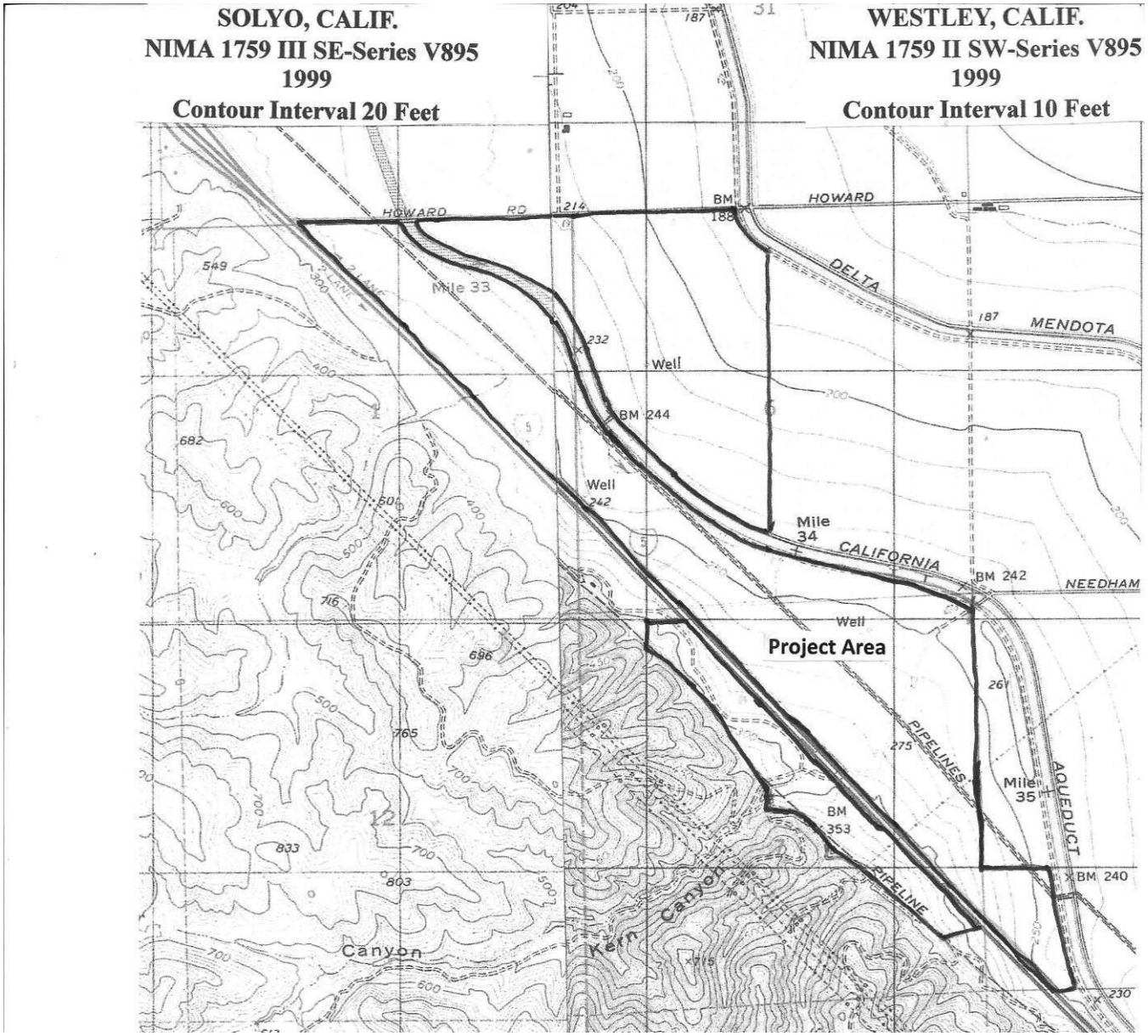
Phone: (661) 834-9183

Fax:

Email: shidlow@sbcglobal.net

Project Description:

Solar Project


SOLYO, CALIF.
NIMA 1759 III SE-Series V895
1999
Contour Interval 20 Feet
WESTLEY, CALIF.
NIMA 1759 II SW-Series V895
1999
Contour Interval 10 Feet
HOWARD RD
HOWARD
BM 188
DELTA
MENDOTA
Mile 33
Well
BM 244
Well
Mile 34
CALIFORNIA
BM 242
NEEDHAM
Well
Project Area
PIPELINES
Mile 35
AQUEDUCT
BM 353
PIPELINE
BM 240
Kern Canyon
Canyon

RE: Solar Project SLF Search
Yahoo/Inbox

NAHC@NAHC

From:nahc@nahc.ca.gov

To: Scott Hudlow

Fri, Dec 27, 2024 at 7:53 AM

Good Morning,

Thank you for contacting the Native American Heritage Commission regarding your request for your upcoming Solar Project. Please see the attached documents pertaining to your request dated December 3, 2024. Please feel free to reach out if you have any questions. Have a great weekend.

Kind Regards,

Native American Heritage Commission
1550 Harbor Blvd Suite 100
West Sacramento, CA 95691
Phone: 916-373-3710

From: Scott Hudlow <shudlow@sbcglobal.net>
Sent: Monday, December 23, 2024 11:32 AM
To: NAHC@NAHC <NAHC@nahc.ca.gov>
Subject: Re: Solar Project SLF Search

Hi,

I know it's barely been four weeks, but I'm getting harassed by my client about the status of this SLF request. So, you have a status update for my Stanislaus County SLF request. Thanks. Scott Hudlow, HCRA

On Wednesday, November 20, 2024 at 03:12:58 PM PST, NAHC@NAHC <nahc@nahc.ca.gov> wrote:

Hello,

Thank you for your message. We're in receipt of your project. Our turn-around time is approximately 4 weeks, and we don't anticipate responding sooner than that timeframe. Our response will be delivered by email. Please let us know if you have any questions.

Kind Regards,

Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(T) 916-373-3710

From: Scott Hudlow <shudlow@sbcglobal.net>
Sent: Wednesday, November 20, 2024 1:26 PM
To: NAHC@NAHC <NAHC@nahc.ca.gov>
Subject: Solar Project SLF Search

Hi,

I need another SLF search for a completed project in Stanislaus County. Thanks. Scott Hudlow, HCRA

Download all attachments as a zip file

SLF No 2024 Elevoded 23-01 Project 12.3.24.pdf

151.6kB

Elevoded 23-01 list.xlsx

13.1kB

STATE OF CALIFORNIA — Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: **shudlow@sbcglobal.net**

Re: Elevoded 23-01 Project, Stanislaus County

Dear Mr. Hudlow:

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If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Bennae Calac
Pauma-Yuima Band of Luiseño Indians

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok, Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710

Native American Heritage Commission
Native American Contact List
Stanislaus County
12/3/2024

County	Tribe Name	Fed (F) Non-Fed	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
Stanislaus	Amah Mutsun Tribal Band	N	Valentin Lopez, Chairperson	P.O. Box 5272 Galt, CA, 95632	(916) 743-5833		vjltestinqcenter@aol.com	Costanoan Northern Valley Yokut	Alameda,Calaveras,Contra Costa,Fresno,Madera,Mariposa,Merced,Monterey,San Benito,San Francisco,San	7/20/2023
	Amah Mutsun Tribal Band	N	Ed Ketchum, Vice-Chairperson		(530) 578-3864		serioussyr@aol.com	Costanoan Northern Valley Yokut	Alameda,Calaveras,Contra Costa,Fresno,Madera,Mariposa,Merced,Ma	7/20/2023
	Muwekma Ohlone Tribe of the SF Bay Area	N	Richard Marriott, Councilmember/MLD Tribal Rep.	1169 S. Main Street, Ste. 336 Manteca, CA, 95377	(209) 321-0372		rmarriott@muwekma.org	Costanoan	Alameda,Contra Costa,Marin,Merced,Napa,Sacramento,San Francisco,San Joaquin,San Mateo,Santa	3/28/2024
	Muwekma Ohlone Tribe of the SF Bay Area	N	Charlene Nijmeh, Chairperson	1169 S. Main Street, Ste. 336 Manteca, CA, 95377	(408) 464-2892		cnijmeh@muwekma.org	Costanoan	Alameda,Contra Costa,Marin,Merced,Napa,Sacramento,San Francisco,San Joaquin,San Mateo,Santa	3/28/2024
	Northern Valley Yokut / Ohlone Tribe	N	Katherine Perez, Chairperson	P.O. Box 717 Linden, CA, 95236	(209) 649-8972		canuter@verizon.net	Costanoan Northern Valley Yokut	Alameda,Calaveras,Contra Costa,Fresno,Madera,Mariposa,Merced,Sacramento,San Benito,San Joaquin,Santa	4/30/2024
	Northern Valley Yokut / Ohlone Tribe	N	Timothy Perez, Tribal Compliance Officer	P.O. Box 717 Linden, CA, 95236	(209) 662-2788		tperez@muwekma.org	Costanoan Northern Valley Yokut	Alameda,Calaveras,Contra Costa,Fresno,Madera,Mariposa,Merced,Sacramento,San Benito,San Joaquin,Santa	11/21/2023
	Southern Sierra Miwuk Nation	N	Jaxzmyn Gogoro, Director of Cultural Resource Preservation	P.O. Box 186 Mariposa, CA, 95338	(209) 742-3104		preservation@southernsierramiwuknation.org	Miwuk Northern Valley Yokut Paiute	Calaveras,Fresno,Madera,Mariposa,Merced,Mono,San Joaquin,Stanislaus,Tuolumne	2/1/2024
	Southern Sierra Miwuk Nation	N	Sandra Chapman, Chairperson	P.O. Box 186 Mariposa, CA, 95338	(559) 580-7871		sandra47ray@gmail.com	Miwuk Northern Valley Yokut Paiute	Calaveras,Fresno,Madera,Mariposa,Merced,Mono,San Joaquin,Stanislaus,Tuolumne	2/1/2024
	Tule River Indian Tribe	F	Kerri Vera, Environmental Department	P. O. Box 589 Porterville, CA, 93258	(559) 783-8892	(559) 783-8932	kerri.vera@tulerivertribe-nsn.gov	Yokut	Alameda,Amador,Calaveras,Contra Costa,Fresno,Inyo,Kern,Kings,Madera,Mariposa,Merced,Monterey,Sacramento,San	7/22/2016
	Tule River Indian Tribe	F	Joey Garfield, Tribal Archaeologist	P. O. Box 589 Porterville, CA, 93258	(559) 783-8892	(559) 783-8932	joey.garfield@tulerivertribe-nsn.gov	Yokut	Alameda,Amador,Calaveras,Contra Costa,Fresno,Inyo,Kern,Kings,Madera,Mariposa,Merced,Monterey,Sacramento,San	7/22/2016
	Tule River Indian Tribe	F	Neil Peyran, Chairperson	P.O. Box 589 Porterville, CA, 93258	(559) 781-4271	(559) 781-4610	neil.peyran@tulerivertribe-nsn.gov	Yokut	Alameda,Amador,Calaveras,Contra Costa,Fresno,Inyo,Kern,Kings,Madera,Mariposa,Merced,Monterey,Sacramento,San	
	Wilton Rancheria	F	Herbert Griffin, Executive Director of Cultural Preservation	9728 Kent Street Elk Grove, CA, 95624	(916) 683-6000		hgriffin@wiltonrancheria-nsn.gov	Nisenan Miwuk	Alameda,Alpine,Amador,Contra Costa,El Dorado,Mono,Nevada,Placer,Sacramento,San	8/7/2023
	Wilton Rancheria	F	Cultural Preservation Department,	9728 Kent Street Elk Grove, CA, 95624	(916) 683-6000		cp-d@wiltonrancheria-nsn.gov	Nisenan Miwuk	Alameda,Alpine,Amador,Contra Costa,El Dorado,Mono,Nevada,Placer,Sacramento,San	8/7/2023
	Wukchumni Indian Tribe/Eshom Valley Band	N	Kenneth Woodrow, Chairperson	1179 Rock Haven Ct. Salinas, CA, 93906	(831) 443-9702		kwood8934@aol.com	Foothill Yokut Mono	Alameda,Calaveras,Contra Costa,Fresno,Inyo,Kings,Madera,Marin,Mariposa,Merced,Mono,Monterey,San	6/19/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Elevated 23-01 Project, Stanislaus County.

Record: PRO-2024-001454
Report Type: List of Tribes
Counties: Stanislaus
NAHC Group: All

Amah Mutsun Tribal Band
Valentin Lopez, Chairperson
P.O. Box 5272
Galt, California, 95632

December 27, 2024

Dear Ms. Lopez,

Elevated Entitlements is doing the planning for the construction of a solar array on multiple parcels that are fruit and almond orchards, in Stanislaus County, California. The parcels lie along Interstate 5, south of Howard Road, south of the Westley intersection in Stanislaus County, California. After consultation with the Native American Heritage Commission, the project area is not known to have Native American cultural resources in close proximity. The record search and reporting were performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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This project falls within SB 18 guidelines and is subject to Native comment and consultation. As such, this letter informs your group that this project is proceeding and requests comments with respect to the proposed project as outlined above.

No cultural resource were identified.

If you have any questions, comments, or need additional information, please inform Scott M. Hudlow in writing on or before Friday, January 24, 2024. My business address is below.

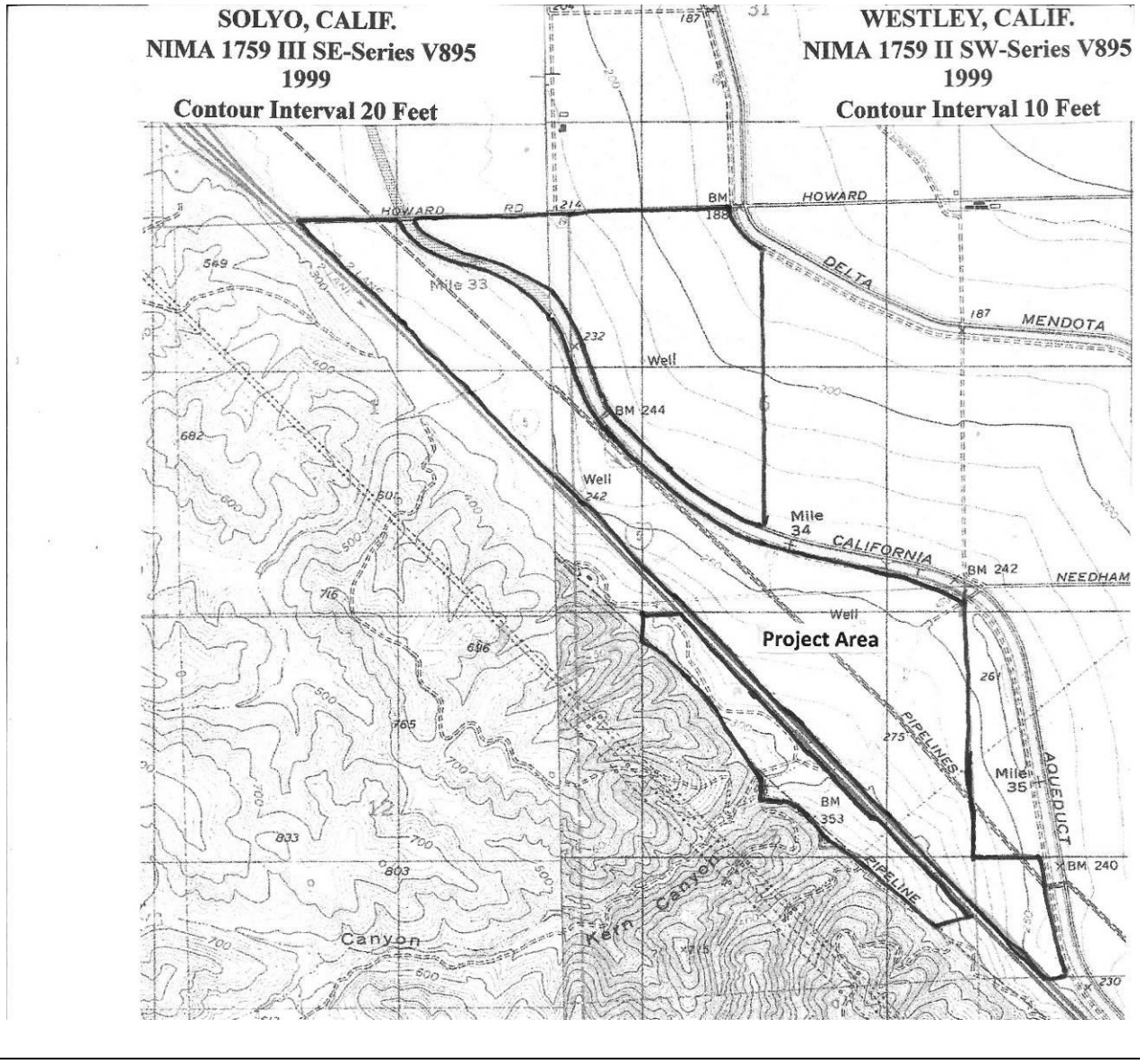
Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183
shudlow@sbcglobal.net

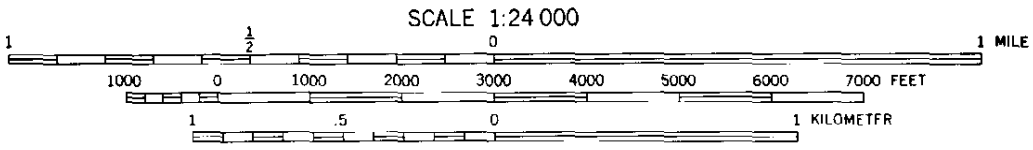
Sincerely,

/signed/

Scott M. Hudlow
Hudlow Cultural Resource Associates

Enclosures





Project Area Location Map

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

Re: Elevoded 23-01 Project, Stanislaus County

Dear Mr. Hudlow:

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If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

Amah Mutsun Tribal Band
Ed Ketchum, Vice-Chairperson
P.O. Box 5272
Galt, California, 95632

December 27, 2024

Dear Mr. Ketchum,

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Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183
shudlow@sbcglobal.net

Sincerely,

/signed/

Scott M. Hudlow
Hudlow Cultural Resource Associates

Enclosures

STATE OF CALIFORNIA Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

Re: Elevoded 23-01 Project, Stanislaus County

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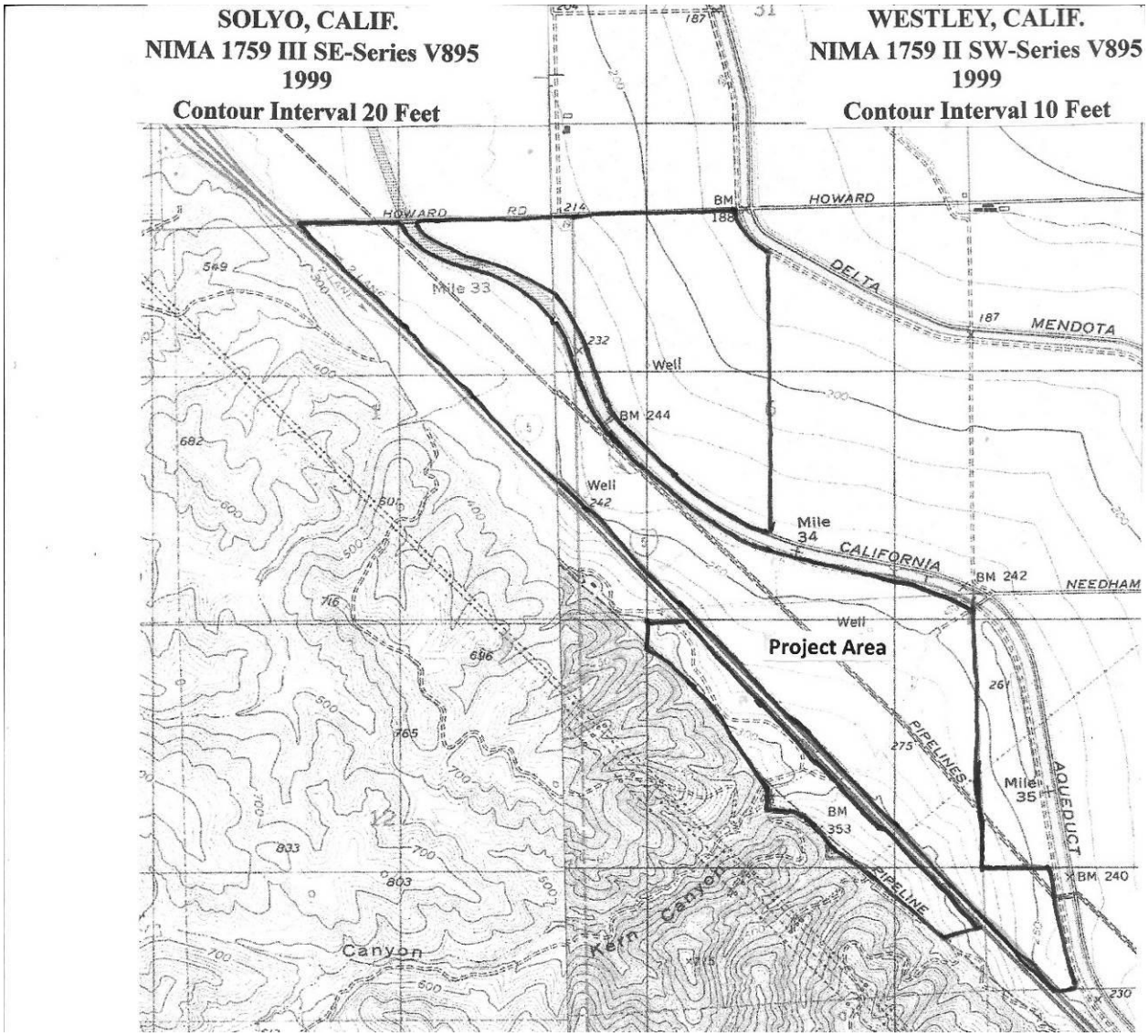
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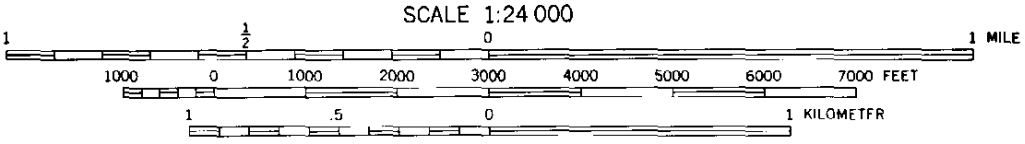
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Sincerely,

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment





Survey Area Location Map

Muwekma Ohlone Tribe of the San Francisco Bay Area
N. Richard Massiatt, Councilmember/MLD Tribal Representative
1169 S. Main Street, Ste. 336
Manteca, California 95377

December 27, 2024

Dear Mr. Massiatt,

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Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183
shudlow@sbcglobal.net

Sincerely,

/signed/

Scott M. Hudlow
Hudlow Cultural Resource Associates

Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

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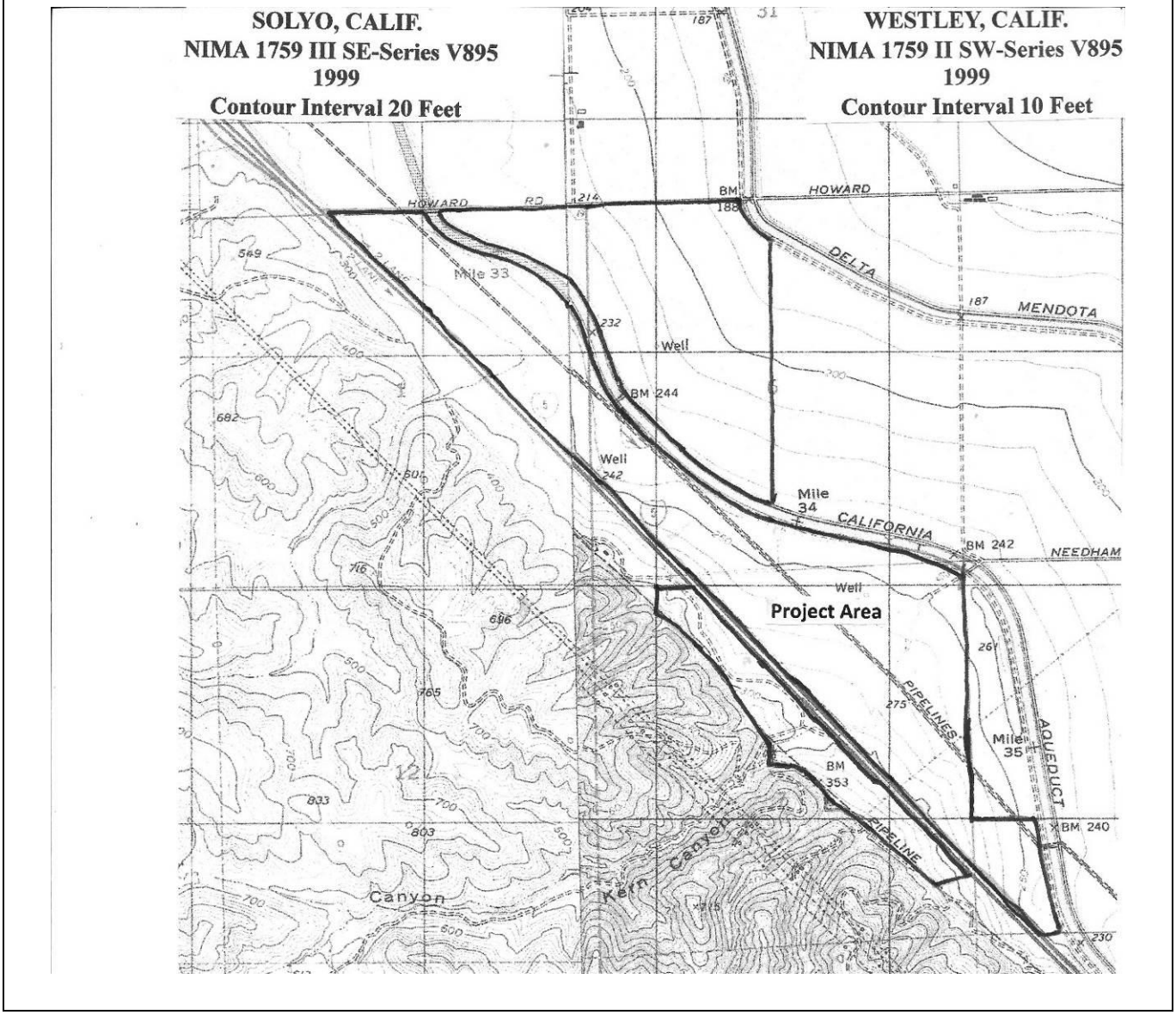
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Sincerely,

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Survey Area Location Map

Muwekma Ohlone Tribe of the San Francisco Bay Area
Charlene Nijmeh, Chairperson
1169 S. Main Street, Ste. 336
Manteca, California 95377

December 27, 2024

Dear Ms. Nijmeh,

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Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183
shudlow@sbcglobal.net

Sincerely,

/signed/

Scott M. Hudlow
Hudlow Cultural Resource Associates

Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

Re: Elevoded 23-01 Project, Stanislaus County

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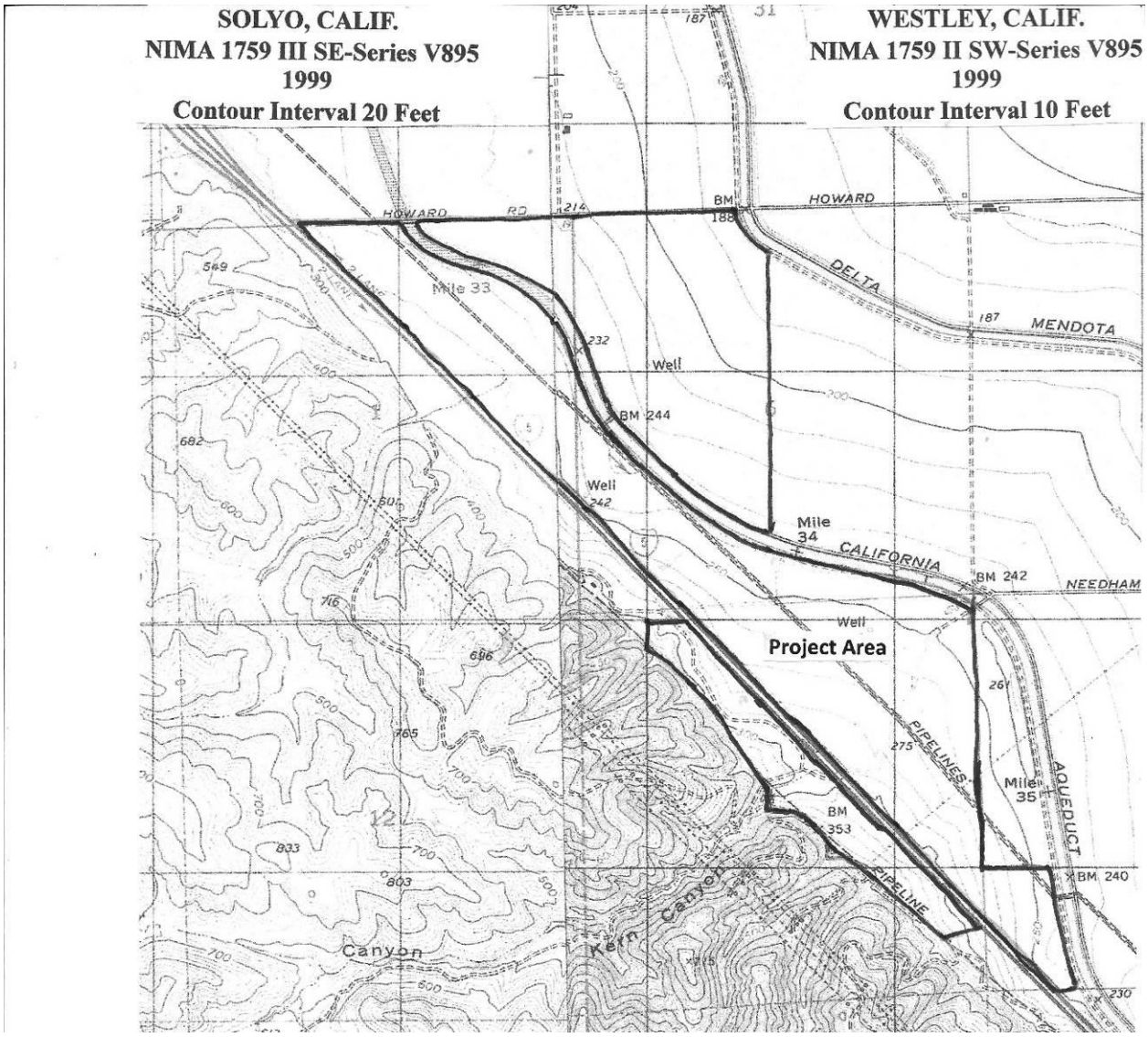
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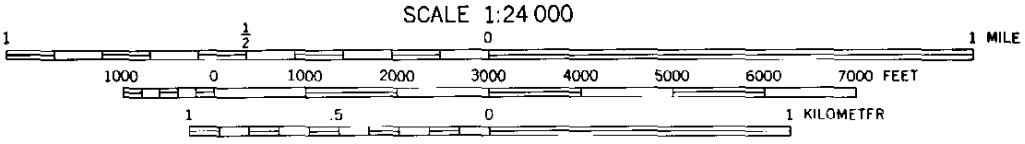
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Sincerely,

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment





Survey Area Location Map

Northern Valley Yokut/Ohlone Tribe
Katherine Perez, Chairperson
P.O. Box 717
Linden, California, 95236

December 27, 2024

Dear Ms. Perez,

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No cultural resource were identified.

If you have any questions, comments, or need additional information, please inform Scott M. Hudlow in writing on or before Friday, January 24, 2024. My business address is below.

Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183
shudlow@sbcglobal.net

Sincerely,

/signed/

Scott M. Hudlow
Hudlow Cultural Resource Associates

Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

Re: Elevoded 23-01 Project, Stanislaus County

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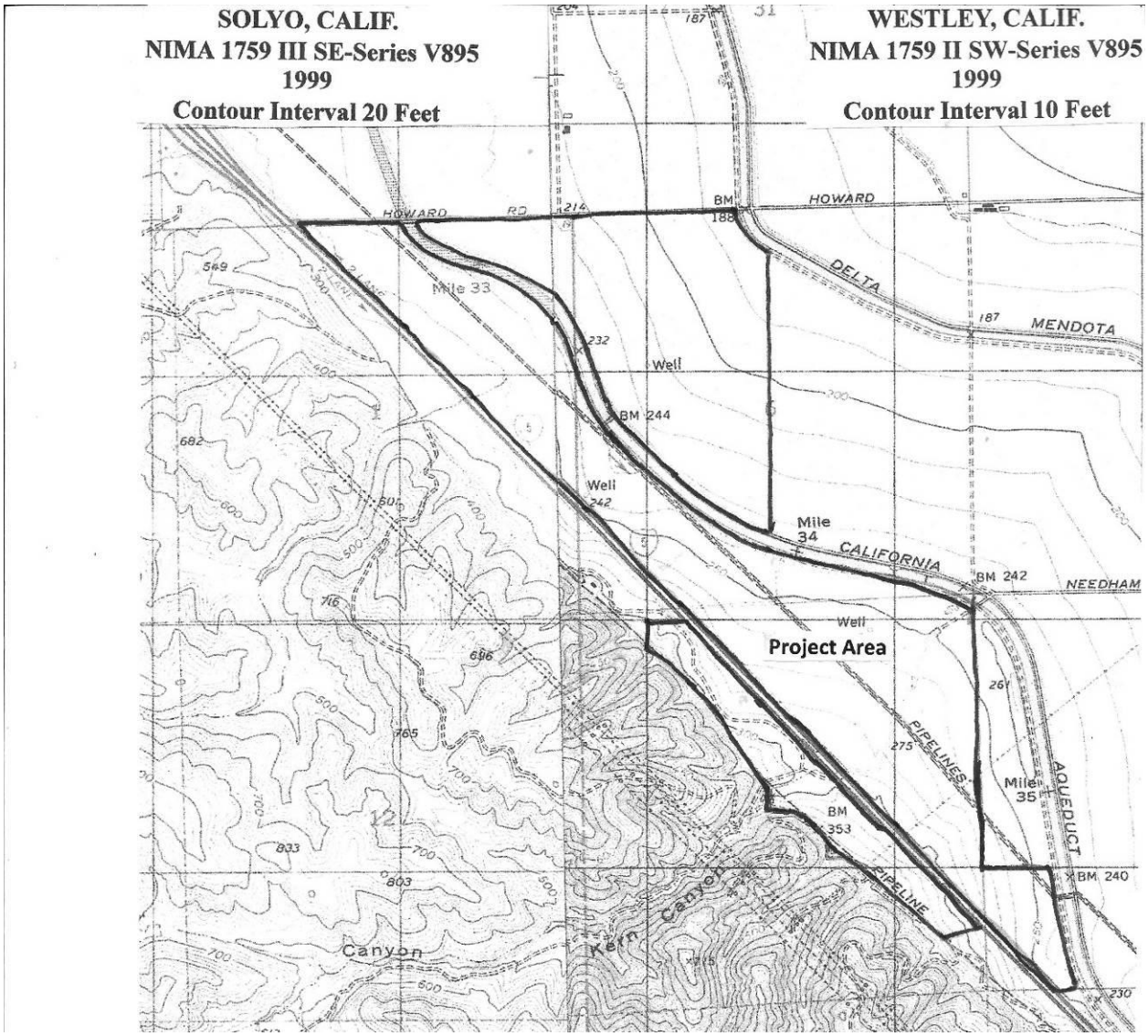
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Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment



SCALE 1:24 000

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Survey Area Location Map

Tule River Indian Tribe
Joey Garfield, Tribal Archaeologist
P. O. Box 589
Porterville, California 93258

December 27, 2024

Dear Mr. Garfield,

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(661) 834-9183
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Sincerely,

/signed/

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Hudlow Cultural Resource Associates

Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

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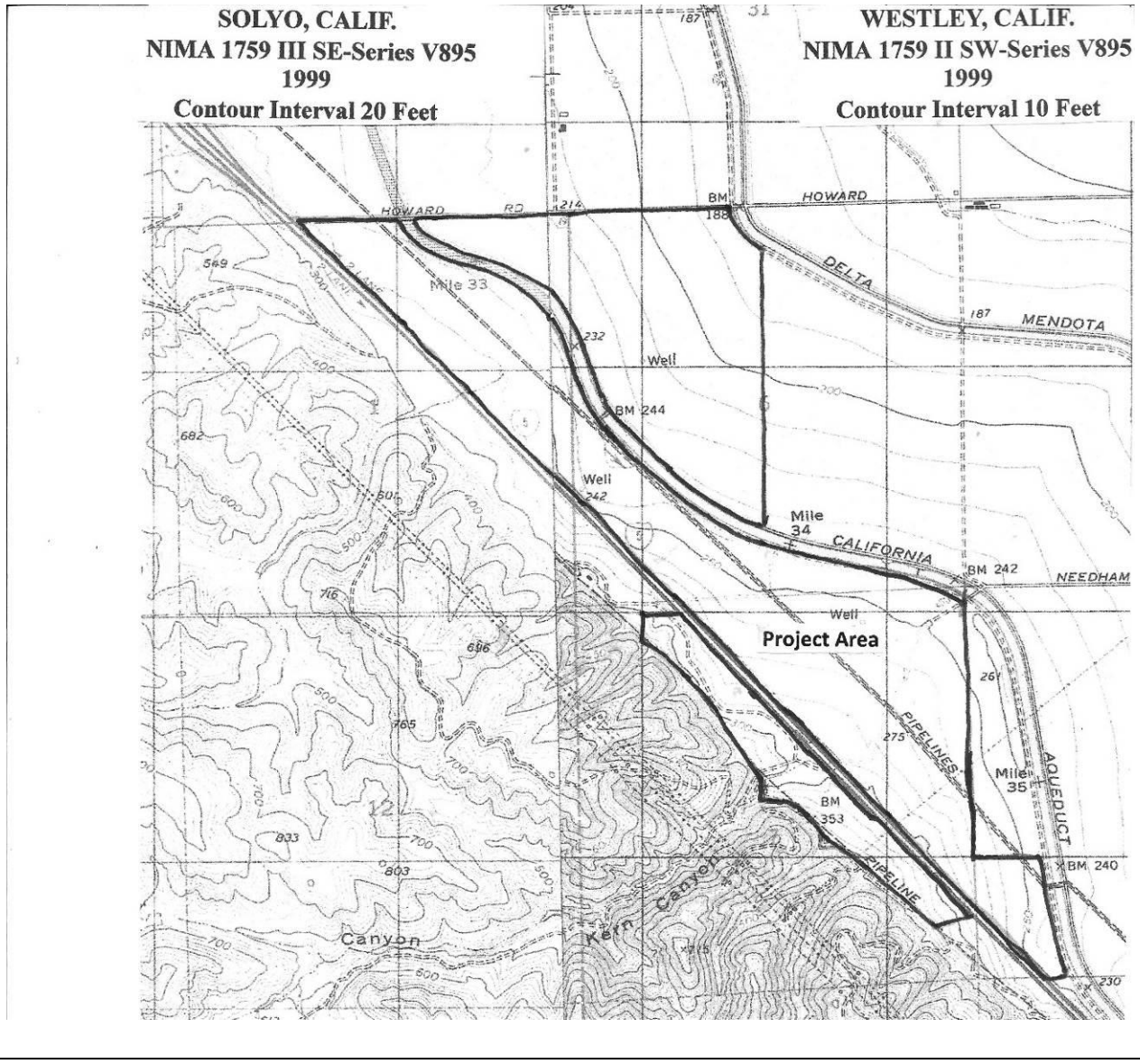
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Cultural Resources Analyst

Attachment



SCALE 1:24 000

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1 .5 0 1 KILOMETFR

Survey Area Location Map

Tule River Indian Tribe
Neil Peyron, Chairperson
P. O. Box 589
Porterville, California 93258

December 27, 2024

Dear Mr. Peyron,

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1405 Sutter Lane
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(661) 834-9183
shudlow@sbcglobal.net

Sincerely,

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Hudlow Cultural Resource Associates

Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

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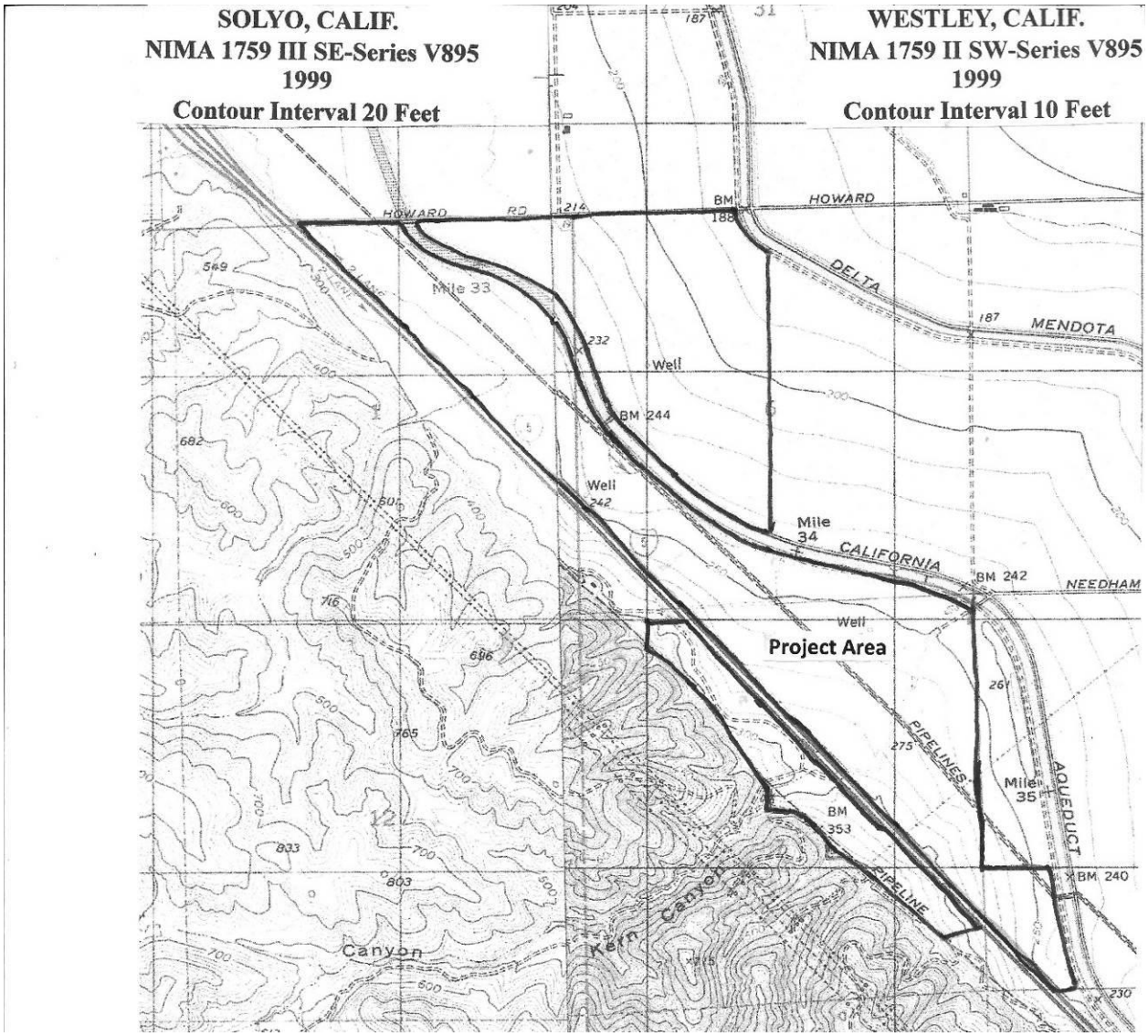
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Cultural Resources Analyst

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SCALE 1:24 000

1 0 1 MILE

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1 .5 0 1 KILOMETER

Survey Area Location Map

Tule River Indian Tribe
Kerri Vera, Environmental Department
P. O. Box 589
Porterville, California 93258

December 27, 2024

Dear Ms. Vera,

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Sincerely,

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Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

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Via Email to: shudlow@sbcglobal.net

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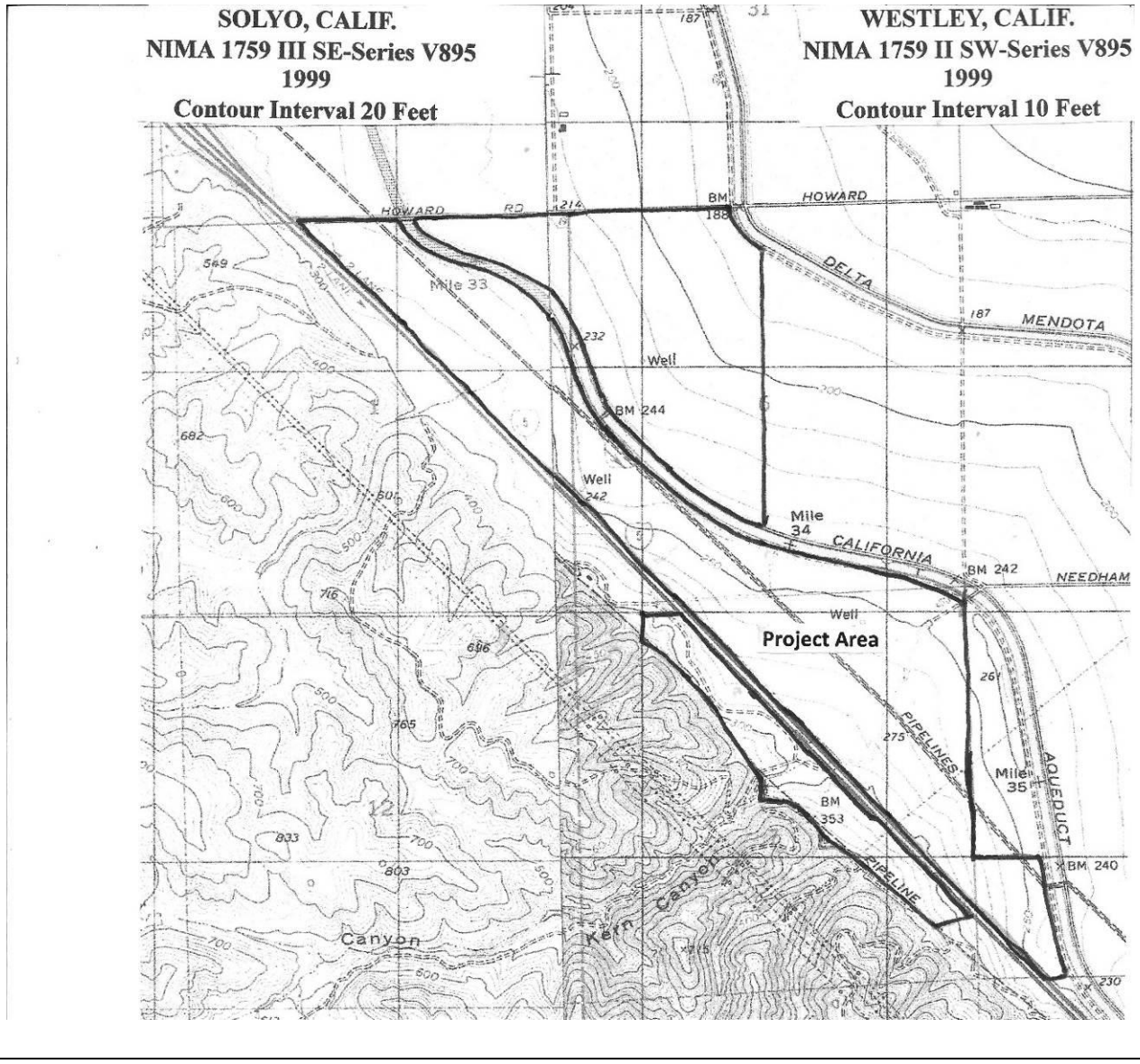
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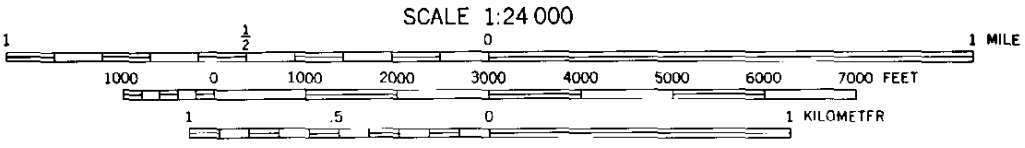
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Cultural Resources Analyst

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Northern Valley Yokut/Ohlone Tribe
Timothy Perez, Tribal Compliance Officer
P.O. Box 717
Linden, California, 95236

December 27, 2024

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Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

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Hudlow Cultural Resource Associates

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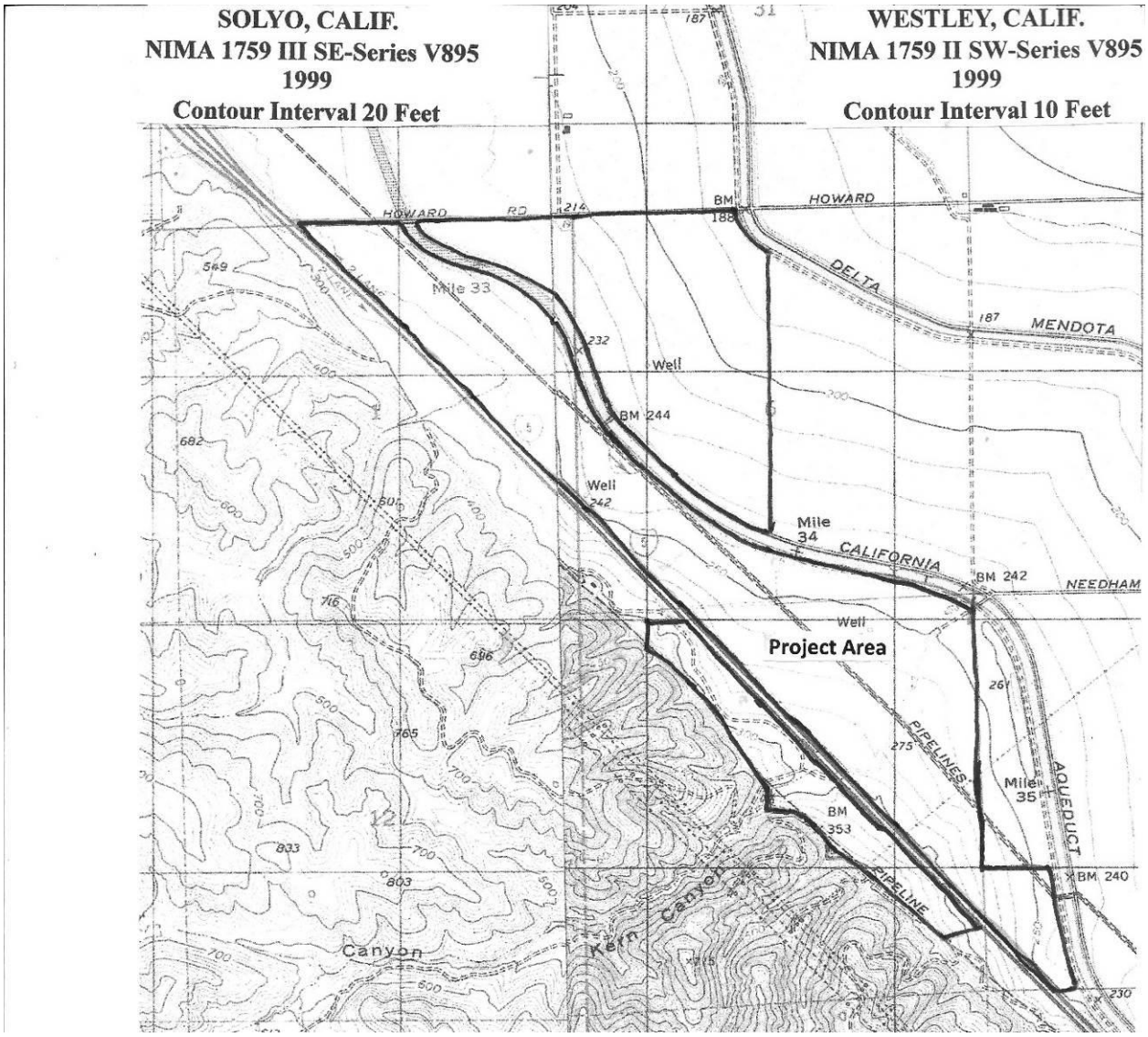
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1 KILOMETER

Survey Area Location Map

Southern Sierra Miwuk Nation
Jazzmyn Gegere, Director of Cultural Resource Preservation
P.O. Box 186
Mariposa, California 95338

December 27, 2024

Dear Ms. Gegere,

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Enclosures

STATE OF CALIFORNIA Gavin Newsom, *Governor*

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

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Via Email to: shudlow@sbcglobal.net

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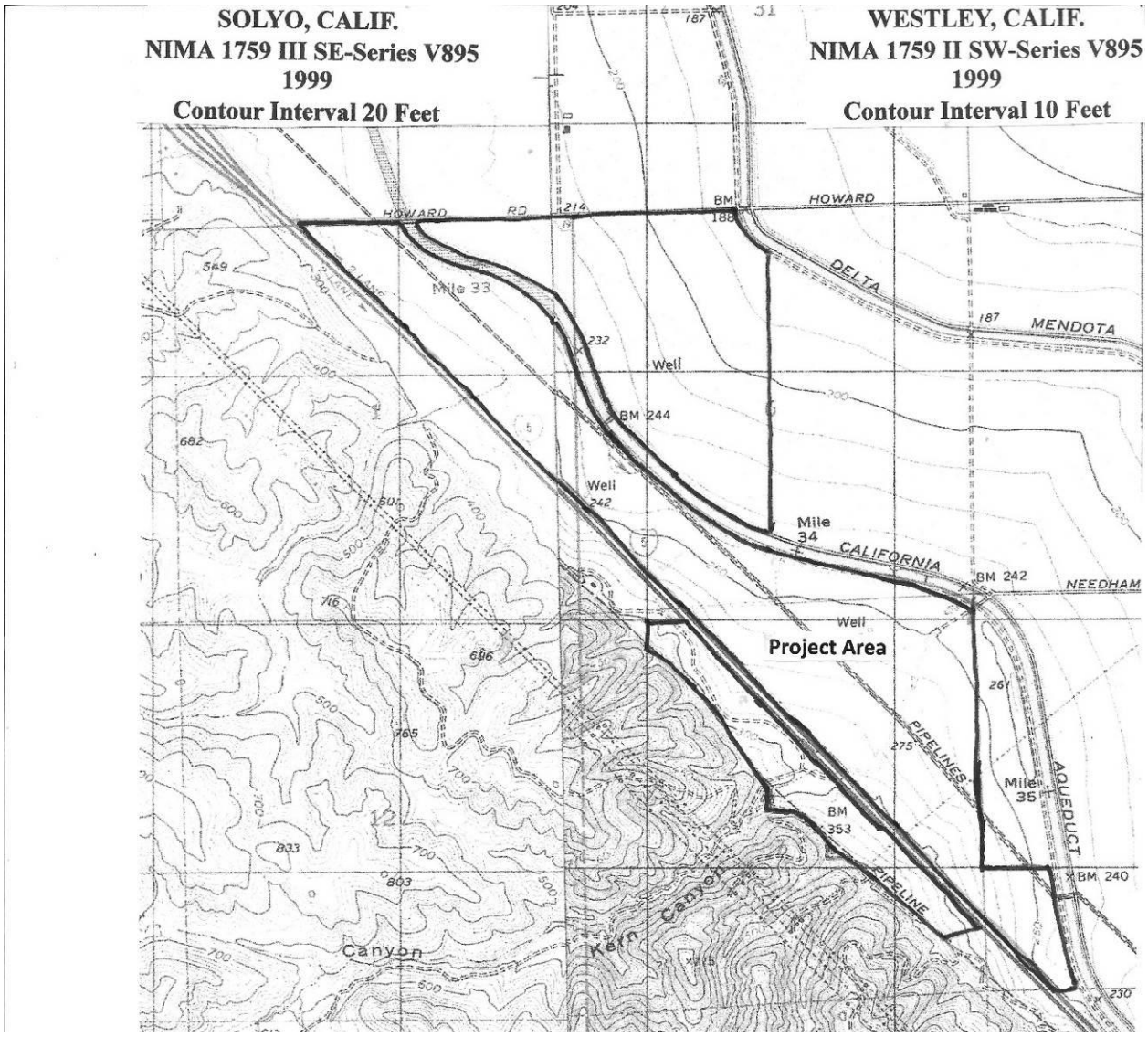
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Survey Area Location Map

Southern Sierra Miwuk Nation
Sandra Chapman, Chairperson
P.O. Box 186
Mariposa, California 95338

December 27, 2024

Dear Ms. Chapman,

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Enclosures

STATE OF CALIFORNIA Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

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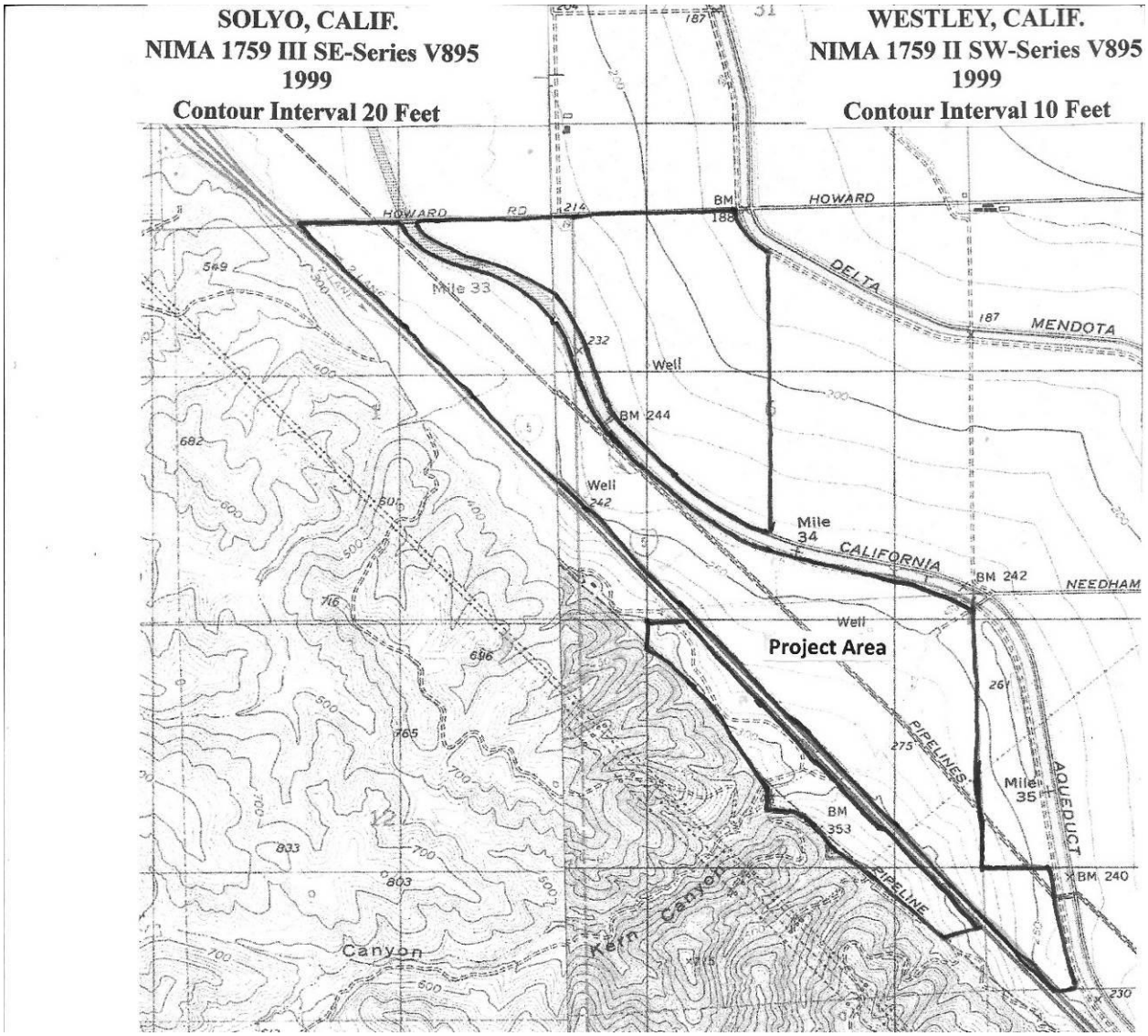
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Cultural Resources Analyst

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Survey Area Location Map

Wilton Rancheria
Herbert Griffin, Executive Director of Cultural Preservation
9728 Kent Street
Elk Grove, California, 95624

December 27, 2024

Dear Mr. Griffin,

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Enclosures

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NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

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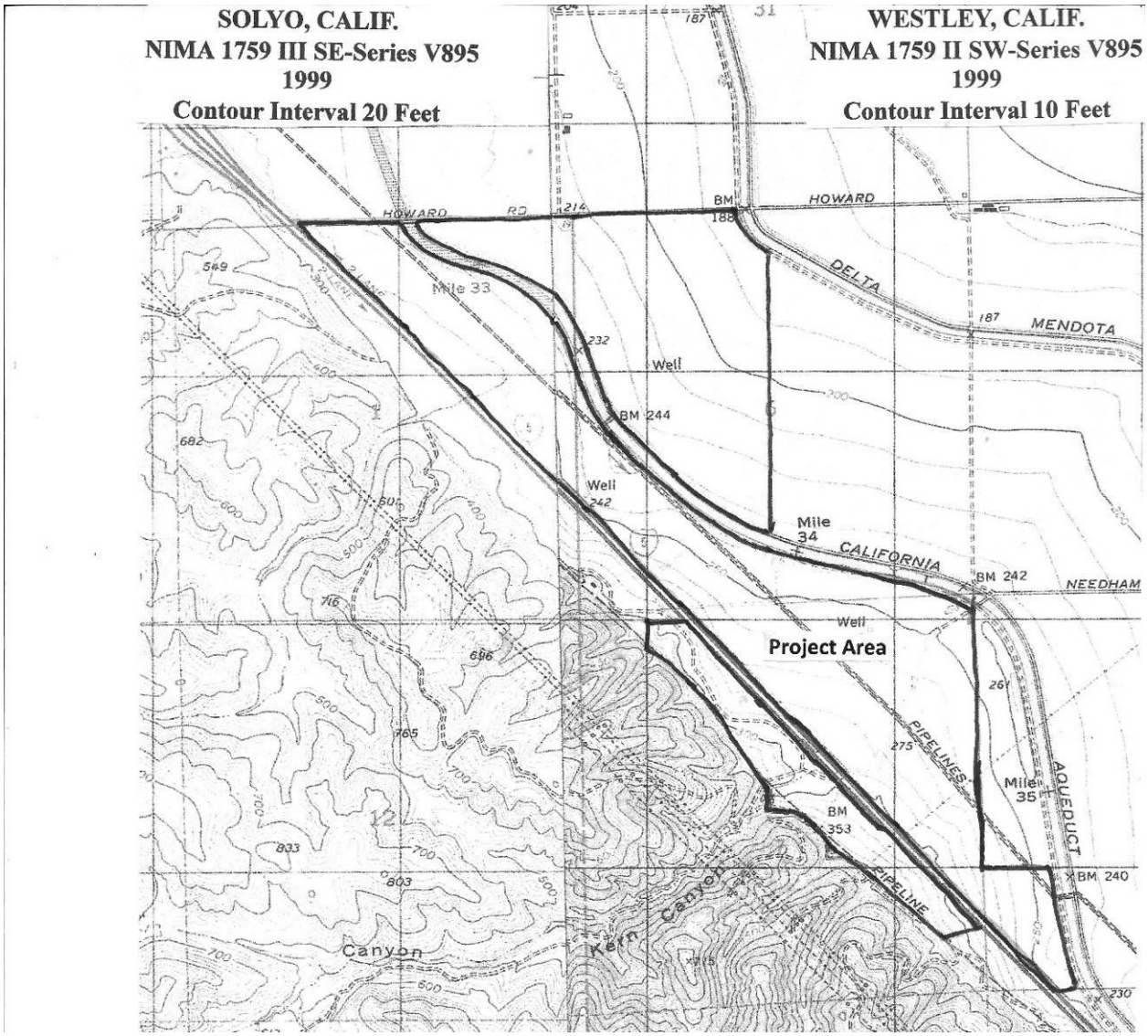
If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment



SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

Survey Area Location Map

Wilton Rancheria
Cultural Preservation Department
9728 Kent Street
Elk Grove, California 95624

December 27, 2024

Dear Cultural Preservation Department,

Elevated Entitlements is doing the planning for the construction of a solar array on multiple parcels that are fruit and almond orchards, in Stanislaus County, California. The parcels lie along Interstate 5, south of Howard Road, south of the Westley intersection in Stanislaus County, California. After consultation with the Native American Heritage Commission, the project area is not known to have Native American cultural resources in close proximity. The record search and reporting were performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

Elevated Entitlements retained Hudlow Cultural Resource Associates of Bakersfield, California on behalf of itself to conduct a cultural resource survey, an Information Center record search, and a Sacred Land Search.

This project falls within SB 18 guidelines and is subject to Native comment and consultation. As such, this letter informs your group that this project is proceeding and requests comments with respect to the proposed project as outlined above.

No cultural resource were identified.

If you have any questions, comments, or need additional information, please inform Scott M. Hudlow in writing on or before Friday, January 24, 2024. My business address is below.

Hudlow Cultural Resource Associates
1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183
shudlow@sbcglobal.net

Sincerely,

/signed/

Scott M. Hudlow
Hudlow Cultural Resource Associates

Enclosures

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

Re: Elevoded 23-01 Project, Stanislaus County

Dear Mr. Hudlow:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

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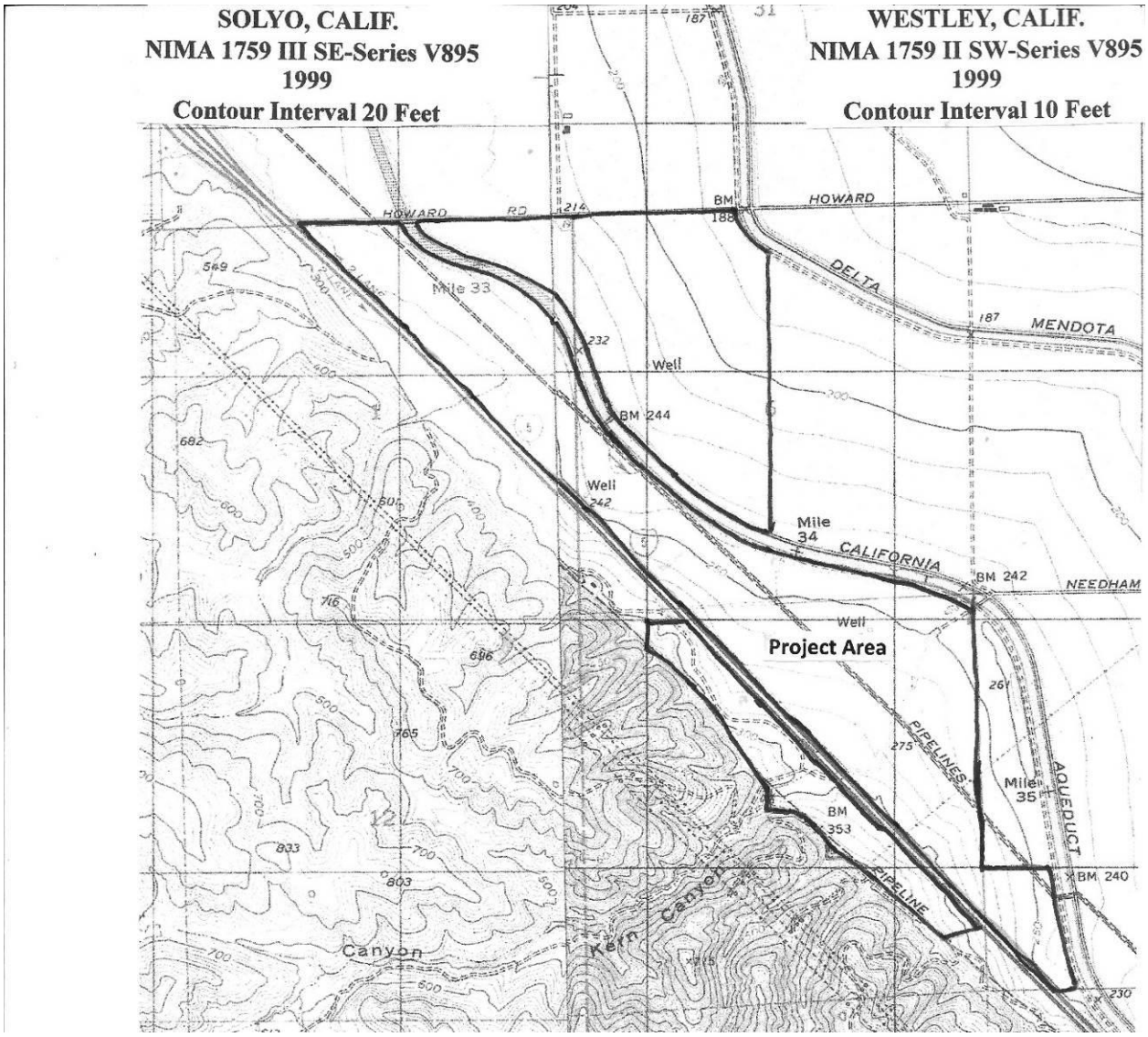
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Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Survey Area Location Map

Wuksachi Indian Tribe/Eshom Valley Band
Kenneth Woodrow, Chairperson
1179 Rock Haven Court
Salinas, California 93906

December 27, 2024

Dear Mr. Woodrow,

Elevated Entitlements is doing the planning for the construction of a solar array on multiple parcels that are fruit and almond orchards, in Stanislaus County, California. The parcels lie along Interstate 5, south of Howard Road, south of the Westley intersection in Stanislaus County, California. After consultation with the Native American Heritage Commission, the project area is not known to have Native American cultural resources in close proximity. The record search and reporting were performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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1405 Sutter Lane
Bakersfield, California 93309
(661) 834-9183
shudlow@sbcglobal.net

Sincerely,

/signed/

Scott M. Hudlow
Hudlow Cultural Resource Associates

Enclosures

STATE OF CALIFORNIA Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION

December 3, 2024

Scott Hudlow
Hudlow Cultural Resource Associates

Via Email to: shudlow@sbcglobal.net

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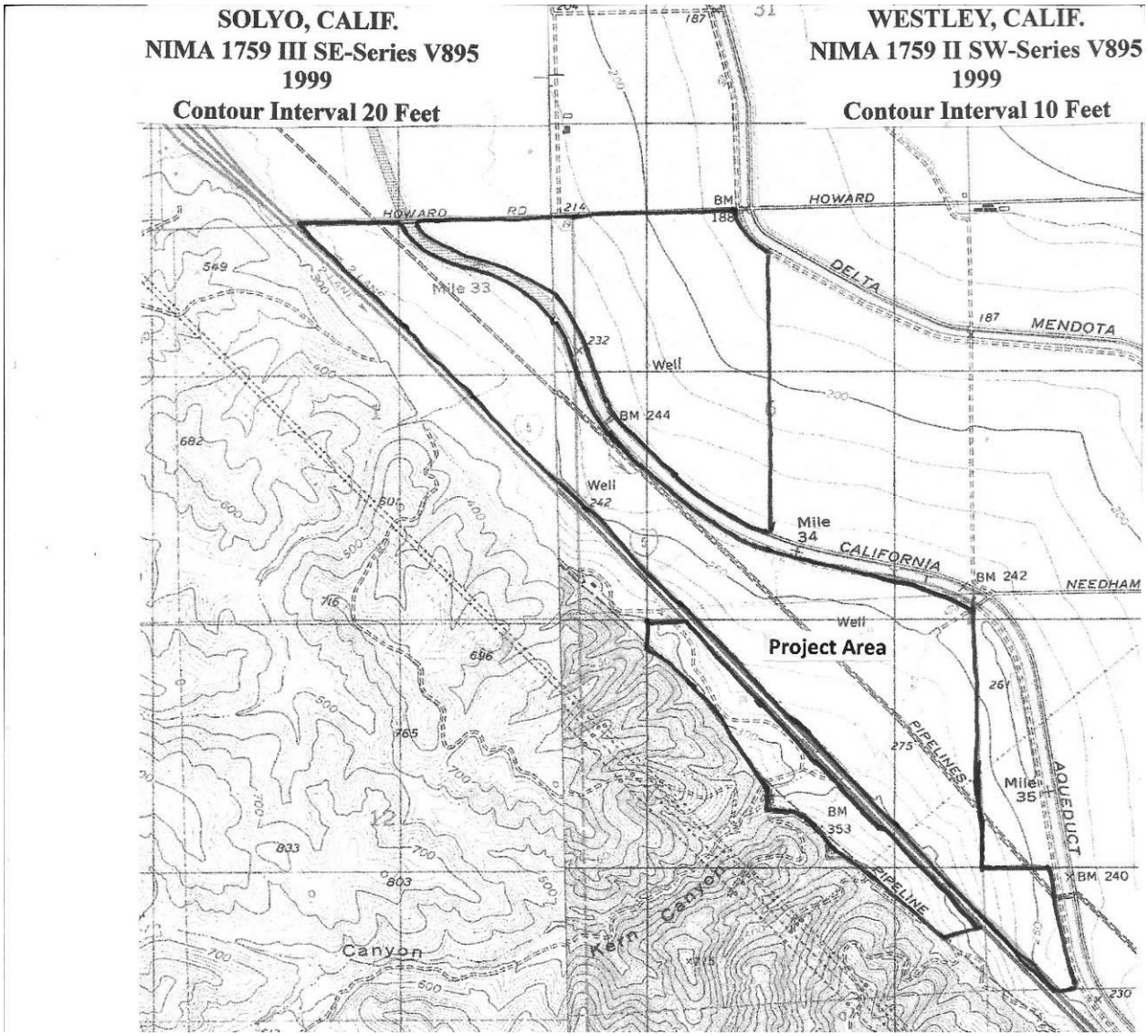
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Sincerely,

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment



SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

Survey Area Location Map

Re: Solar Project SLF Search
Yahoo/Inbox

Jazzmyn Gegere Brochini

From:preservation@southernsierramiwuknation.org

To: Scott Hudlow

Mon, Jan 6 at 1:47 PM

Hello,

The Southern Sierra Miwuk Nation has received SB18 notification for the planning and construction of a solar array on multiple parcels in Stanislaus County, California.
We would like to request a copy of the cultural resource report in order to give a more informed decision regarding comments and consultation.

Thank you,

Jazzmyn Gegere
Cultural Resource Preservation Department Director
Southern Sierra Miwuk Nation
Cell #209-742-3104
preservation@southernsierramiwuknation.org

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From: Scott Hudlow <shudlow@sbcglobal.net>
Sent: Friday, December 27, 2024 10:13 PM
To: Jazzmyn Gegere Brochini <preservation@southernsierramiwuknation.org>
Subject: Solar Project SLF Search

Hi,

I have a solar project in Stanislaus County that required a Sacred Land File search. Thanks. Scott Hudlow, HCRA

Fw: Solar Project SLF Search

Yahoo/Sent

Scott Hudlow

From:shudlow@sbcglobal.net

To: Moe Farrag,Michael Brown,Kevin Kohan

Tue, Jan 7 at 8:45 AM

Hi, I received this comment, yesterday. I'm on the road and will not be in my office until the end of the week, so can you please address their request for my report? Thanks.
Scott Hudlow, HCRA

----- Forwarded Message -----

From: Jazzmyn Gegere Brochini <preservation@southernsierramiwuknation.org>

To: Scott Hudlow <shudlow@sbcglobal.net>

Sent: Monday, January 6, 2025 at 01:47:18 PM PST

Subject: Re: Solar Project SLF Search

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Thank you,

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Cultural Resource Preservation Department Director
Southern Sierra Miwuk Nation
Cell #209-742-3104
preservation@southernsierramiwuknation.org

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Re: Fw: Solar Project SLF Search

Yahoo/Inbox

Jazzmyn Gegere Brochini

From:preservation@southernsierramiwuknation.org

To: Moe Farrag

Cc: Kevin Kohan,Scott Hudlow,Mark Mouavangsou

Wed, Jan 8 at 12:45 PM

Hello,

Thank you for getting this to me while Scott is away.
Based off of the information provided, the Southern Sierra Miwuk Nation will choose to decline consultation for this project.
As for comments, I will suggest refining the inadvertent discovery plan to include an exact measurement of area to flag for avoidance if discovery occurs during construction.
This will allow for project managers, contractors, etc. to confidently move forward in the case that discovery occurs. In my experience, uncertainty = issues.

Thank you,

Jazzmyn Gegere
Cultural Resource Preservation Department Director
Southern Sierra Miwuk Nation
Cell #209-742-3104
preservation@southernsierramiwuknation.org

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violate applicable laws including the Electronic Communications Privacy Act. If you received this in error, please contact the sender and delete the material from any computer.

From: Moe Farrag <Moe@elvted.com>
Sent: Tuesday, January 7, 2025 8:53 AM
To: Jazzmyn Gegere Brochini <preservation@southernsierramiwuknation.org>
Cc: Kevin Kohan <kevin@elvted.com>; Scott Hudlow <shudlow@sbcglobal.net>; Mark Mouavangsou <mark@elvted.com>
Subject: Re: Fw: Solar Project SLF Search

Hi Jazzmyn,

Scott is currently on the road and requested that we assist in this matter. Please see the attached cultural report for the solar project in Stanislaus County. Please feel free to reach out if you have any questions.

Best,

Moe Farrag
Project Planner
Schedule a Meeting
Elevated Entitlements
Office: (805) 232-4383
moe@elvted.com
5716 Corsa Avenue Suite 201
Westlake Village, CA 91362

On Tue, Jan 7, 2025 at 8:45 AM Scott Hudlow <shudlow@sbcglobal.net> wrote:

Hi, I received this comment, yesterday. I'm on the road and will not be in my office until the end of the week, so can you please address their request for my report? Thanks. Scott Hudlow, HCRA

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Subject: Solar Project SLF Search

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I have a solar project in Stanislaus County that required a Sacred Land File search. Thanks. Scott Hudlow, HCRA

Re: Solar Project SLF Search

Yahoo/Inbox

Richard Massiatt

From:rmassiatt@muwekma.org

To: Scott Hudlow

Cc: Alan Leventhal

Wed, Jan 8 at 10:10 PM

Hello Claire,

January 8,2025

Thank you for reaching out to Muwekma Ohlone Tribe, Inc., we are interested in your project and would like to have further discussions in assisting you with our services if needed. We offer Tribal Consultations as defined under Section 106, CEQA, Assembly Bill (AB) 52, Senate Bill (SB) 18 Consultation, and California Public Resources Code § 21080.3.1.

Should your agency and/or project developers choose to work with our Tribe for monitoring and, if necessary, burial recovery services after our Senior Tribal Archeologist and Ethnohistorian Alan Leventhal have reviewed all documents, he will have further discussions with you.

At your request we can email you our services and our Muwekma Rate sheet for your review. Any other future concerns please contact us.

Please update new mailing address 1169 S. Main St. Ste. 336 Manteca CA. 95337

Best regards,

Richard Massiatt

Executive Director

Muwekma Ohlone Tribe of the San Francisco Bay Area

(209) 321-0372

Rmassiatt@muwekma.org

From: Scott Hudlow <shudlow@sbcglobal.net>
Sent: Friday, December 27, 2024 9:43 PM
To: Richard Massiatt <rmassiatt@muwekma.org>
Subject: Solar Project SLF Search

Hi,

I have a solar project in Stanislaus County that required a Sacred Land File search. Thanks. Scott Hudlow, HCRA

○

OhloneElevated23-01NAHCLetter.docx

938.3kB

Hondeville Energy Center

Glint and Glare Assessment

Elevated Entitlements

5716 Corsa Avenue, Suite 201
Westlake Village, CA 91362

Prepared by:

SLR International Corporation

1658 Cole Blvd, Suite 100, Lakewood, Colorado, 80401

SLR Project No.: 123.V21836.00001

Revision: 6

14 October 2026

Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
R01-v0.1	26 June 2024	Peter Hayman	Peter Georgiou	Peter Georgiou
R02-v1.0	26 July 2024	Peter Hayman	Peter Georgiou	Peter Georgiou
R02-V1.1	10 October 2025	Peter Hayman	Peter Georgiou	Peter Georgiou
R02-V1.2	4 February 2026	Peter Hayman	Peter Georgiou	Peter Georgiou
R02-V1.3	6 February 2026	Peter Hayman	Peter Georgiou	Peter Georgiou
Rev3	18 February 2026	Peter Hayman	Joy Rathod	Peter Georgiou
Rev4	24 February 2026	Peter Hayman	Joy Rathod	Peter Georgiou
Rev5	8 October 2026	Peter Hayman	David M. Jones	Peter Georgiou
Rev6	14 October 2026	Peter Hayman	David M. Jones	Peter Georgiou

Limitations

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This work product presents professional opinions and findings of a scientific and technical nature. The work product shall not be construed to offer legal opinion or representations as to the requirements of, nor the compliance with, environmental laws rules, regulations, or policies of federal, state or local governmental agencies.

Executive Summary

SLR International (SLR) has been engaged by Elevated Entitlements to carry out a Reflective Glare assessment of the proposed 130MW dc Hondeville Energy Center (HEC) Solar Farm ("Project") which also contains a Battery Energy Storage System (BESS).

The Project is located 10 km northwest of Patterson, California and features PV solar panels in a series of sub-arrays east of the West Side Freeway (Interstate 5, "I-5"). The northern perimeter of the facility extends one block beyond Howard Road. The southern point of the facility lies where the Californian Aqueduct meets and runs parallel with West Side Freeway.

The following potential glare conditions have been considered:

- Daytime Reflective glare (and glint) arising from the solar PV panels within the facility.
- Night-time Illumination glare from 24/7 operational security lighting within the facility (if such lighting is required).

Baseline Modelling Results

- Initial glare modelling was carried under the following assumptions:
  - The Back-Tracking Rest Angle was assumed to be 0° using the shade-slope method.
  - No vegetation or other screening (e.g. buildings) were included in the baseline model.
  - No allowance was made for the impact of intervening sections of topography which could obscure the view of the facility for passing motorists or residences.
- Predicted glare was as follows:
  - Sub-Array 1 yielded no potential glare at all surrounding road and residential receivers.
  - Sub-Arrays 3, 4, 5, 6 and 7 yield modest to moderate levels of potential glare at surrounding roads, but no glare for all residential receivers.
  - Sub-Array 2 yields potential glare for both surrounding roads and for seven residential receivers.

Mitigation Modelling Results

- Mitigation options were then assessed for the remaining instances of glare following the baseline calculations via the following avenues:
  - Rest Angle Curtailment – employing Rest Angles of 5° and 10°.

Rest Angle Curtailment

  - Employing a Rest Angle of 5° or 10° was able to eliminate all instances of potential glare for Sub-Arrays 2, 3, 4, 5, 6 and 7.

Night-Time Illumination Glare

If night-time lighting is incorporated into the Project, there will not be any potential for future nuisance glare if the following is adopted:

- Setting a goal of limiting light spill to no more than 1 lux falling on the nearby residential facades during night-time curfew hours; combined with
- Following the general light spill minimisation design principles found in standard 150-2017 of the International Commission on Illumination (CIE 150-2017).

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Appendix A Model Inputs

Acronyms and Abbreviations

1P	One Portrait – refers to the orientation of the panels on the support system
SGHAT	Solar Glare Hazard Analysis Tool

1.0 Introduction

SLR has conducted a Reflective Glare assessment of the proposed 130MW dc Hondeville Energy Center (HEC) Solar Farm (the “Project”) at the request of Elevated Entitlements.

The Project will comprise blocks (“sub-arrays”) of panels following the various natural and man-made breaks throughout the site and inverter areas and power stations.

The following potential glare conditions have been considered:

- Daytime Reflective glare (and glint) arising from the solar PV panels within the facility.
- Night-time Illumination glare from 24/7 operational security lighting within the facility (if such lighting is required).

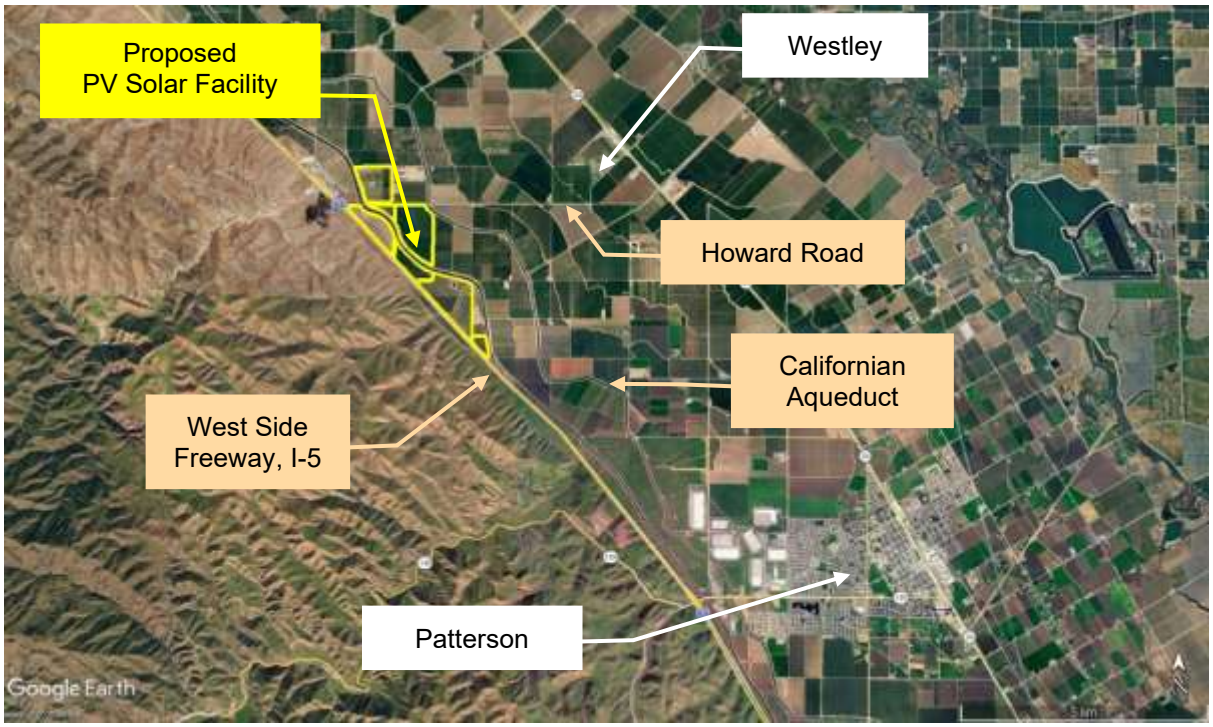
2.0 Proposed HEC Solar Farm Project

2.1 Site Location

The proposed Project is a solar facility at the location shown in **Figure 1**.

- The Project is located 10 km northwest of Patterson, California and would feature PV solar panels in a series of sub-arrays to the east of the West Side Freeway.
- The northern perimeter of the facility extends one block beyond Howard Road. The southern point of the facility lies where the Californian Aqueduct meets and runs parallel with the West Side Freeway (I-5).

Figure 1 HEC Solar Farm – Location Map



2.2 Site Description and Key Project Components

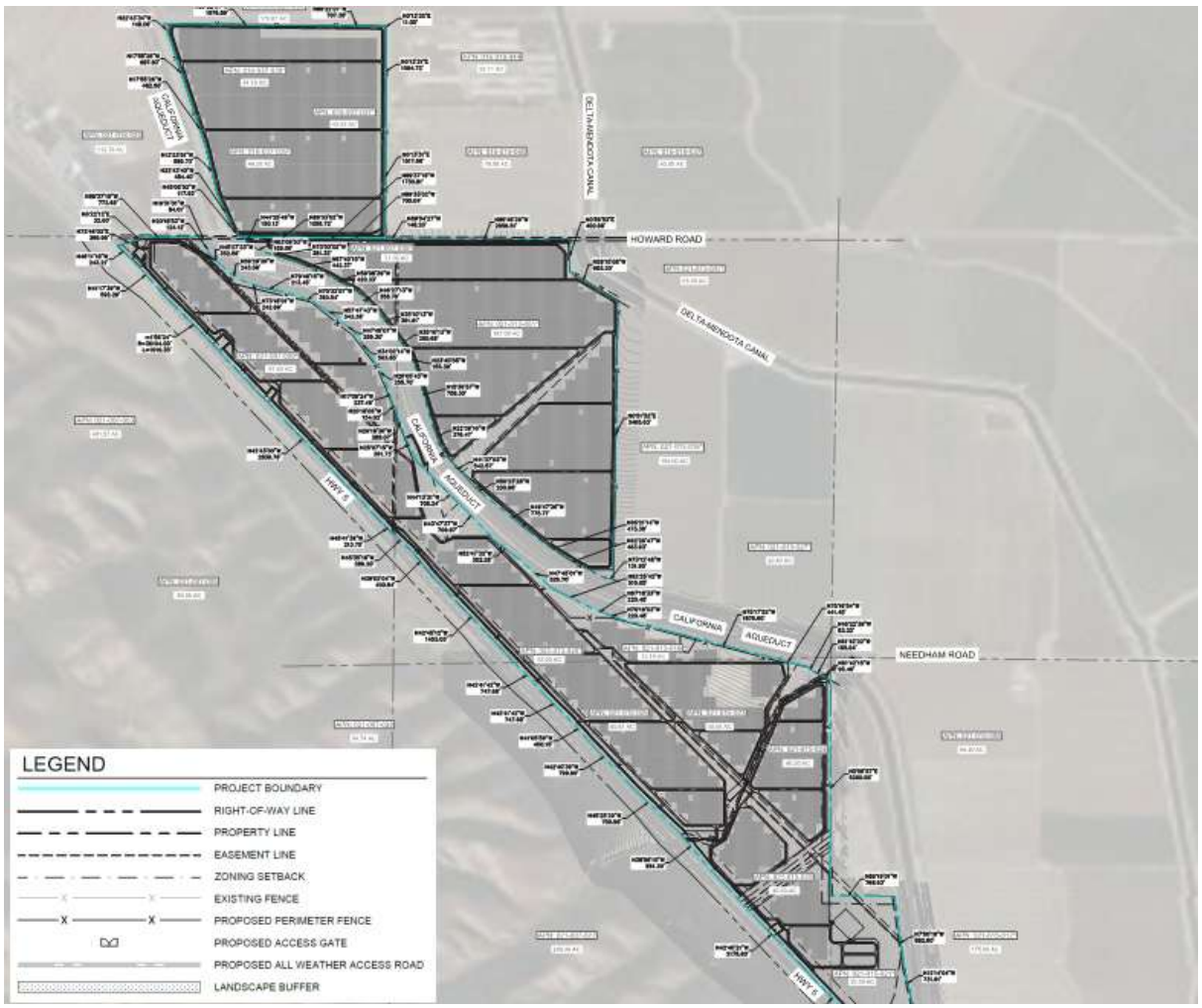
From a glare point of view, the key components of the Project are:

- The photovoltaic (PV) modules in relation to their daytime reflective glare potential; and
- The facility's security/emergency lighting design in relation to potential night-time illumination glare issues, if such 24/7 lighting is incorporated into the Project – note: detailed plans of this are not yet available.
- The project will also incorporate a battery energy storage system (BESS)

Overall Layout

The proposed facility (refer **Figure 2**) would consist of a group of ground-mounted sub-arrays as shown in **Figure 3**.

Figure 2 Site Array Layout



In terms of the relative heights of the Project site and surrounding area, the ground elevations at the site exhibit the following variations:

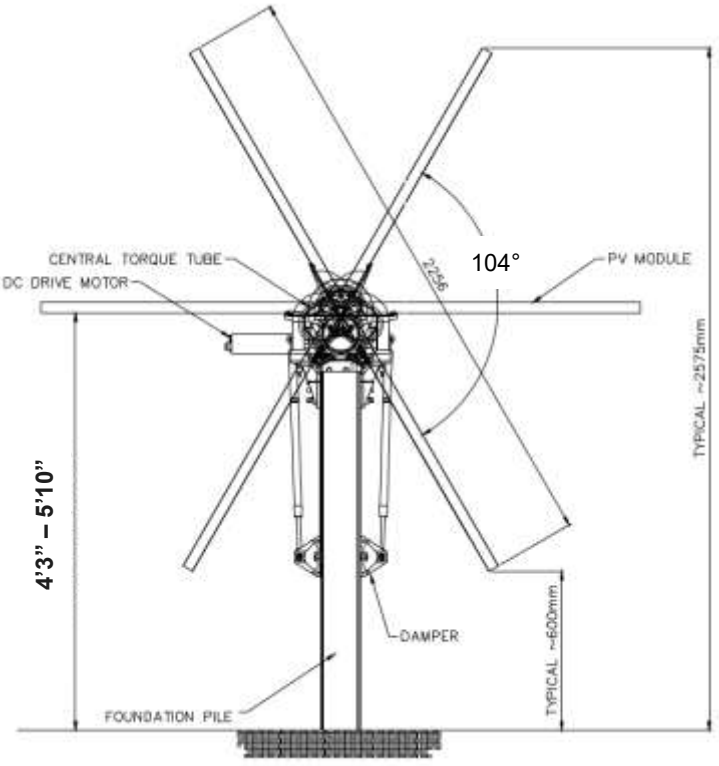
- Elevations (ft) to the east of the I-5 range from RL217 in the north, RL295 in central section and RL250 in the south.
- Elevations (ft) to the west of the I-5 range from RL302 close to the freeway to RL335 along Ingram Creek Road.

Panel Support System

The facility's solar PV panels will be set up in rows with a north-south orientation mounted on a 1P single-axis tracking system (refer **Figure 3**). The following information is based on details provided by Elevated Entitlements or where unavailable has been assumed from previous experience.

- The height to the pivot point of the panels will vary between 4'3" ft and 5'10" ft above ground level. The 4'3" height will be used for the modelling of the 1P tracker system. This is more conservative as the lower the panels are, the more chance there is for an observer to experience glare. As an example if the panels were on the ground the reflections may reach an observer's eye but if the panels were set above ground level the same reflection may bounce over the observer.
- The ground coverage ratio will be approximately 40%.
- During the middle of the day, when the solar panels are in "Normal" tracking mode, the tracking system will have a tilt range of ±52°.
- During Back-tracking, the sunrise and sunset tilt of the panels will have a potential Rest Angle of 0°.

Figure 3 Sideview of Proposed Single-Axis Tracking System



3.0 Requirements

There is currently no known local planning guidance within Stanislaus County for quantifying the impacts associated with solar reflections from PV panels covering Aviation Glare, Road and Rail Traffic Disability Glare or Residential Nuisance Glare.

Aviation Glare

In relation to the potential impact of solar PV systems on aviation activity, guidance is available from the US Federal Aviation Administration (FAA) which regulates and oversees all aspects of American civil aviation. The FAA issued a Technical Guidance Policy in 2010 and a subsequent (over-riding) Interim Policy in 2013, 2018, and 2021.

- FAA, *"Technical Guidance for Evaluating Selected Solar Technologies on Airports"*, Federal Aviation Administration, Washington, D.C., November 2010.
- FAA, *"Interim Policy, FAA Review of Solar Energy System Projects on Federally Obligated Airports"*, Federal Register, Oct. 23, 2013.
- FAA, *"Technical Guidance for Evaluating Selected Solar Technologies on Airports"*, Federal Aviation Administration, Washington, D.C., Version 1.1, April 2018.
- FAA, *"FAA Aviation Administration Policy, Review of Solar Energy System Projects on Federally Obligated Airports"*, Federal Register, Vol.86, No.89, May 11, 2021.

The April 2018 interim policy and guidance notes the use of the ForgeSolar SGHAT software tool to assess aviation glare. SGHAT has been accepted by regulatory bodies globally.

In the 2021 updated policy:

- The FAA concluded that the glare from solar installations impacting on pilots is similar to the glare routinely experienced by pilots from bodies of water and glass-facade buildings.
- Accordingly, the FAA refined the scope of their policy to focus on the glare received by ATCTs (Air Traffic Control Towers) and no longer provide guidance as to the glare experienced by pilots on final (landing) approach.
- The FAA is no longer recommending the use SGHAT due to it no longer being free to use. However, the FAA is not requiring or endorsing a specific tool for assessing ocular impact. SLR continues to use SGHAT due to its industry leading solar glare analysis capabilities.

SLR typically takes a precautionary approach and has continued to include assessment of approach flightpaths when they are within approximately 3 miles (5 km) of a proposed solar facility, given that this will be a new source of glare.

For this assessment, there are no airfields close enough to the Project site and further analysis in relation to aviation glare is not required.

Residential Nuisance Glare

Since there are no known County, State or Federal regulations for residential glare, SLR has utilized international guidelines to interpret the SGHAT output. The criteria available in the Australian New South Wales (NSW) Large Scale Solar Energy (LSSE) Guideline (2022) provide a way to do this. The LSSE Guideline classifies Residential Nuisance Glare into "High", "Moderate" and "Low" impact levels by minutes per day and/or hours per year.

Figure 4 summarises the three impact levels and associated amenity objectives.

When applying the LSSE Guideline to Residential Nuisance Glare, it is standard industry practice to use the occurrence of predicted SGHAT YELLOW glare, noting that:

- SGHAT GREEN glare implies LOW potential for an after-image and is acceptable in terms of aviation glare for pilots on final landing approach.

Figure 4 Extract (*Table 2*) from NSW Large-Scale Solar Energy Guideline (2022)

High glare impact	Moderate glare impact	Low glare impact
> 30 minutes per day > 30 hours per year	< 30 minutes & > 10 minutes per day < 30 hours & > 10 hours per year	< 10 minutes per day < 10 hours per year
Significant amount of glare that should be avoided.	Implement mitigation measures to reduce impacts as far as practicable.	No mitigation required.

Road and Rail Traffic Disability Glare

There are no SGHAT nor LSSE Guideline criteria for Road and Rail Traffic Disability Glare.

Accordingly, when considering motorists and/or rail operators, the predicted occurrence of SGHAT YELLOW glare for ANY number of minutes per day or hours per year is taken by SLR as necessitating consideration of mitigation, unless the reflection condition occurs at a time of day when the difference in angle between an incoming solar ray and its associated reflection is less than around 10°. Such a condition would not constitute a glare situation as the intensity of the incoming solar ray would dominate the field of vision perceived by the observer.

4.0 Background

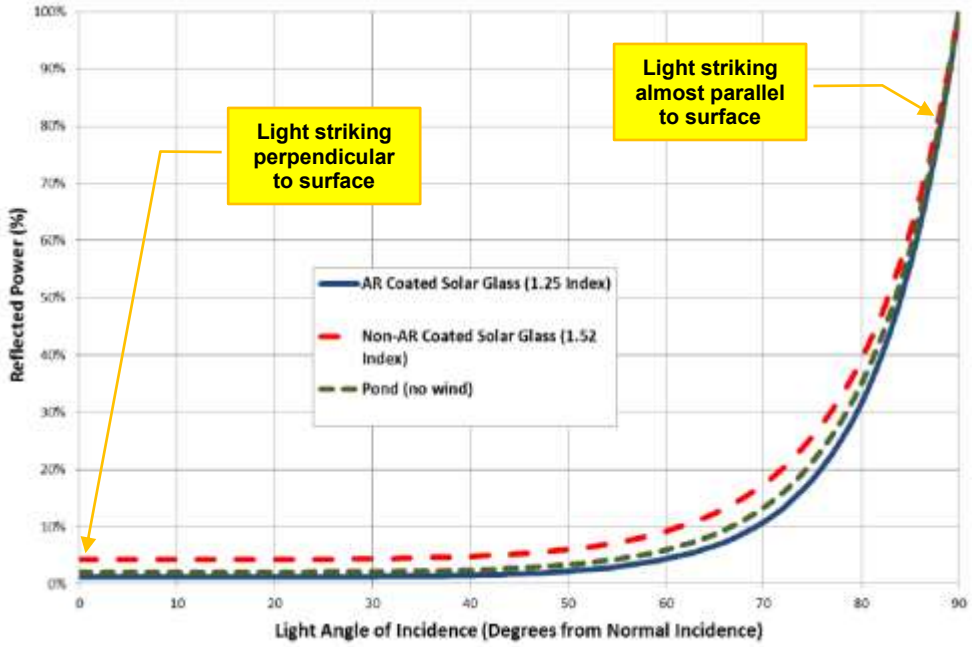
4.1 Solar Panel Reflectivity

Solar PV panels are designed to capture (absorb) the maximum possible amount of light within the layers below the front (external) surface and therefore minimise reflections off the surface of each panel. Reflections are a function of:

- The angle at which the light is incident onto the panel (which will vary depending on the specific location, time of day and day of the year), and
- The index of refraction of the front surface of the panel and associated degree of diffuse (non-directional) versus specular (directional or mirror-like) reflection, which is a function of surface texture of the front module (reflecting) surface.

Representative reflectivity curves are shown in **Figure 5**.

Figure 5 Typical Reflectivity Curves as a Function of Incidence Angle



- When an incoming solar ray strikes the surface of a solar PV panel close to perpendicular to the panel surface (i.e. low angle of “incidence”), reflectivity is minimal, less than 5% for all solar panel surface types.
- It is only when an incoming solar ray strikes the panel at large “incidence” angles, i.e. closer to parallel to the panel, that reflectivity values increase. When this happens, reflections become noticeable and potentially at “glare” level – this can occur for all solar panel surface types.
- However, for very high incidence angles, it would almost always be the case that the observer (motorist, resident, etc.) would perceive reflections coming from virtually the same direction as the incoming solar rays themselves. Such a condition would not constitute a glare situation as the intensity of the incoming solar ray would dominate the field of vision perceived by the observer.

4.2 Project Site Angles – Annual Variations

One of the challenging issues encountered with daytime solar panel glare is the varying nature of the associated reflections, whose occurrence will vary with time of day and day of the year as the sun's rays follow varying incoming angles between the two extremes of:

- Summer solstice – sunrise incoming rays from just north of east, maximum angle altitude rays at midday, sunset incoming rays from just north of west.
- Winter solstice – sunrise incoming rays from almost southeast, minimum angle altitude rays at midday, sunset incoming rays from almost southwest.

Any solar glare analysis must take into account the complete cycle of annual reflection variations noted above. The potential range of incoming solar angles at the Project site relevant to daytime glare is shown in **Figure 6**, with critical angles summarised in **Table 1**.

Figure 6 Project Site Incoming Solar Angle Variations

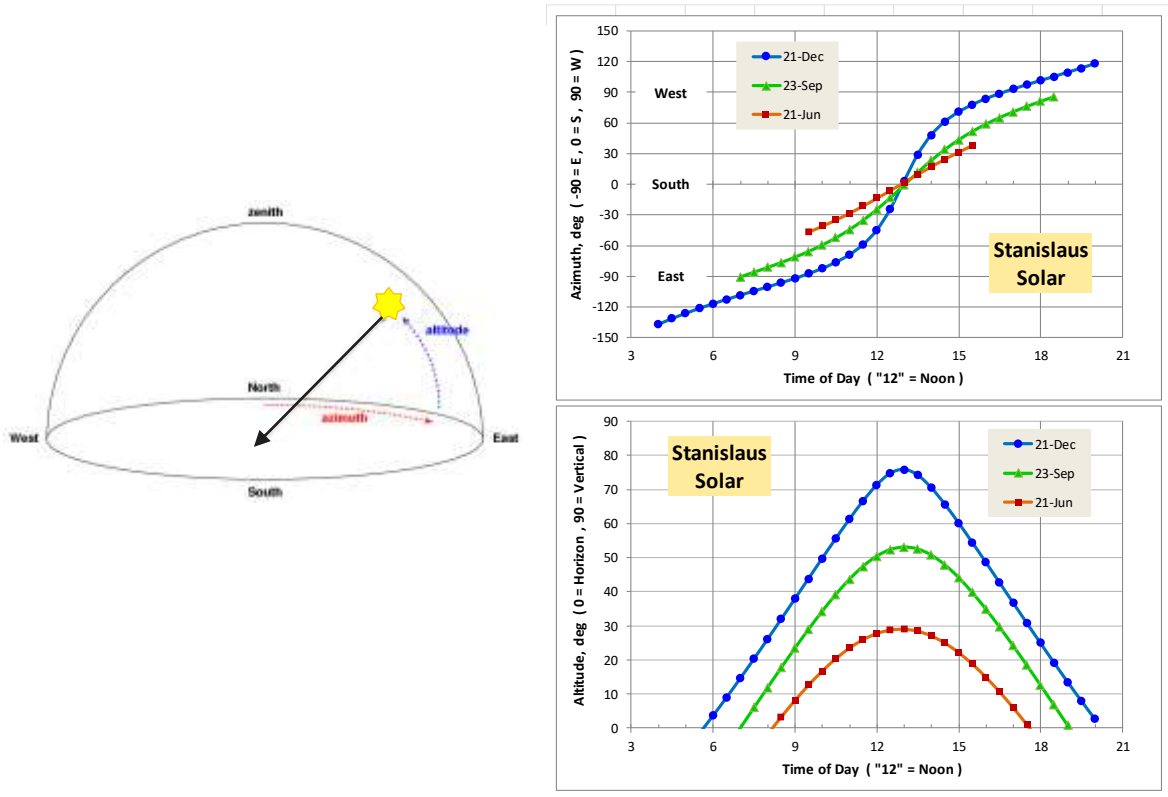


Table 1 Key Annual Solar Angle Characteristics for Project Site

Day of Year [1]	Sunrise	Sunset	Sunrise-Sunset Azimuth Range	Max Altitude
Summer Solstice [2]	5:39 am	8:25 pm	±120° East & West of North	76°
Equinox [2]	7:00 am	7:04 pm	±90° East & West of North	52.5°
Winter Solstice	8:11 am	5:36 pm	±60° East & West of North	29°

Note 1: NOAA Global Monitoring Division: General Solar Position Calculations

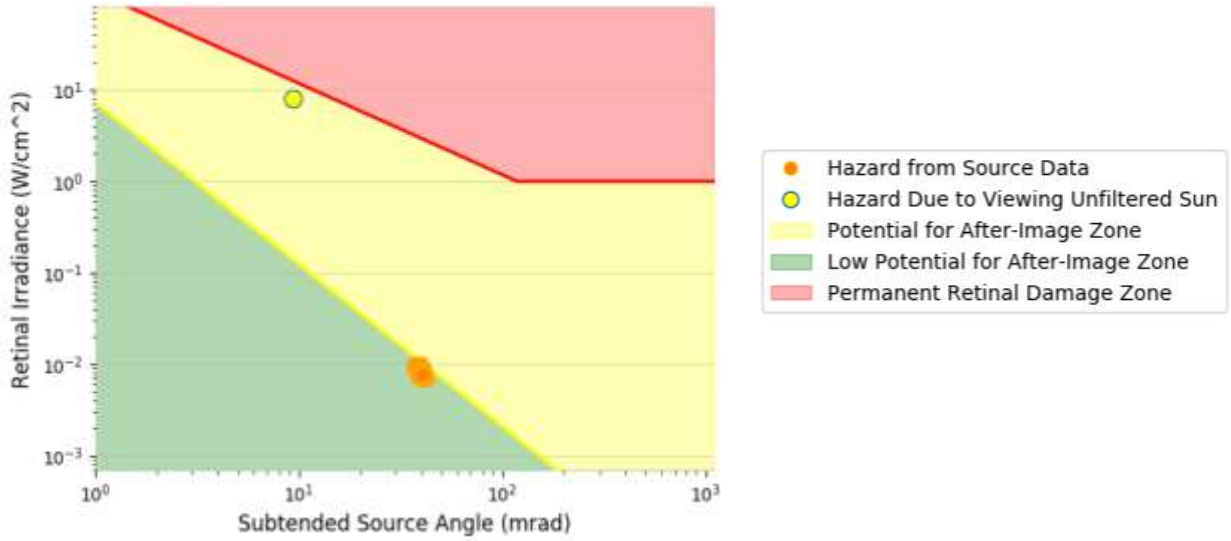
Note 2: Times of day do not take into account Daylight Savings Time

4.3 Modelling Outputs

Project modelling was completed using the Forge Solar SGHAT software suite. This provides output in the form of an ocular hazard analysis plot, a sample of which is shown in **Figure 7**.

The analysis displayed in this plot is derived from solar simulations that extend over the entire calendar year in 1-minute intervals, sunrise to sunset.

Figure 7 Example Solar Glare Ocular Hazard Plot (SGHAT Software Output)



The following is noted regarding **Figure 7**.

- SGHAT ocular impact is a function of both the “retinal irradiance” (i.e. the light seen by the eye) and “subtended source angle” (i.e. how wide an arc of view the light appears to be arriving from).
- SGHAT ocular impact falls into three categories:
  - GREEN: low potential to cause “after-image”
  - YELLOW: potential to cause temporary “after-image”
  - RED: potential to cause retinal burn (permanent eye damage)
    - “After Image” is the term applied to a common retinal phenomenon that most people have experienced at some point or other, such as the effect that occurs when a photo with flash is taken in front of a person who then sees spots in front of their eyes for a few seconds. A more extreme example of “after-image” occurs when staring at the sun. “After-image” (also known as “photo bleaching”) occurs because of the de-activation of the cells at the back of the eye’s retina when subjected to a very bright light.
- The SGHAT plot provides an indication of the relative intensity of both the reflections of interest and the source of light itself (i.e. the sun).
  - The occurrence of glare is shown in the plot as a series of **orange circles**, one circle for each minute that a reflection is visible.
  - A reference point is also shown in each SGHAT plot, the **yellow circle** with the **green outline**, representing the hazard level of viewing the sun without filtering, i.e. staring at the sun.

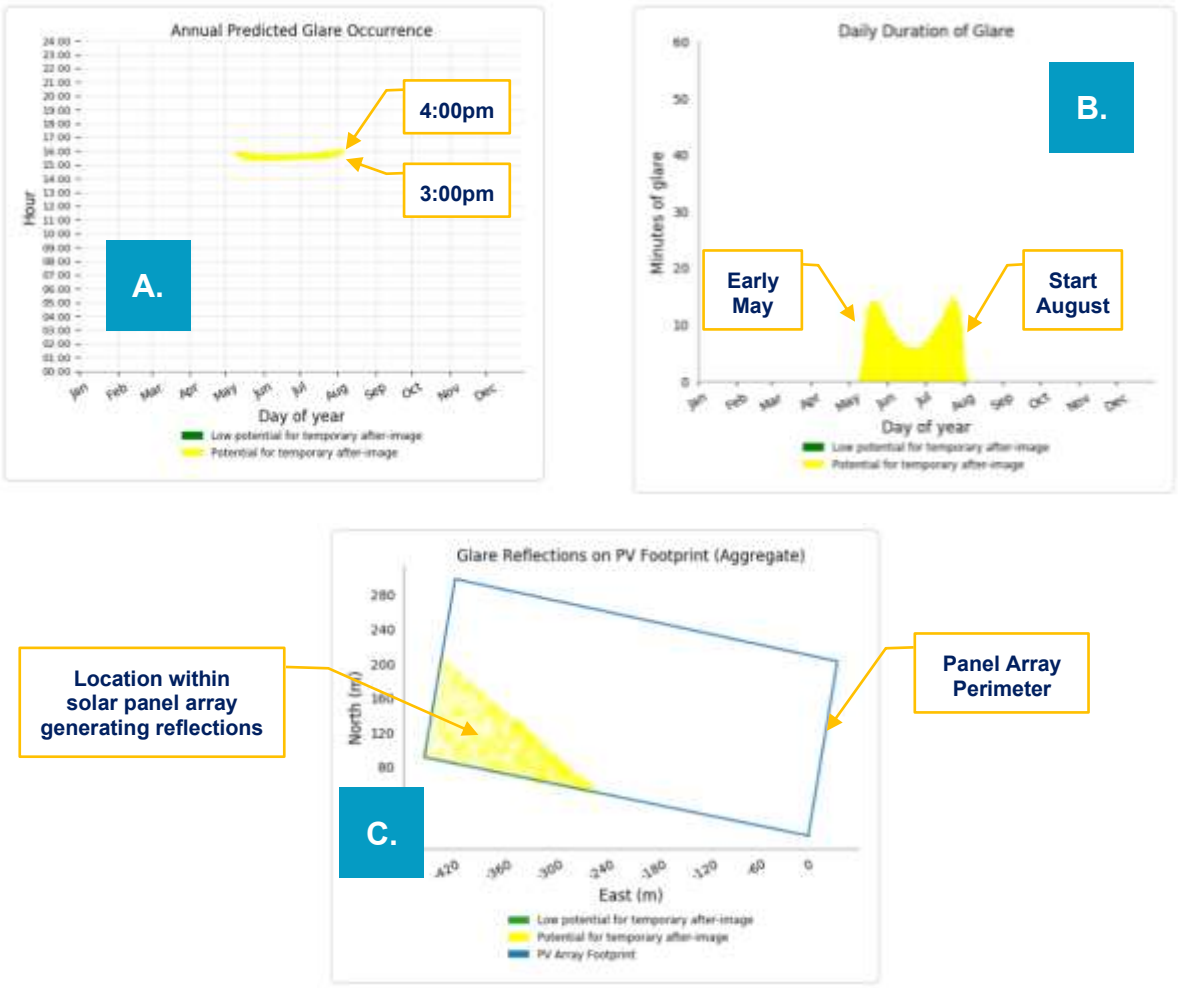
- In **Figure 7**, it can be seen that the reflection visible by the receiver is roughly one thousand times less intense than the light from the sun.

- Finally, in relation to PV Solar facilities, it is important to note that the third SGHAT Ocular Plot "RED" category is not possible, since standard PV modules do not focus reflected sunlight.

In addition to the above "assessment" output, the SGHAT software package also produces information which reveals the extent of visibility of reflections at any chosen receiver position, regardless of whether the reflections constitute a glare condition or not. An example is shown in **Figure 8**.

- **Figure 8-A** shows the am/pm time periods when reflections occur at a specific receptor throughout the year, in this case between around 3:30 pm and 4:00 pm.
- **Figure 8-B** shows the months during the year and the minutes per day when reflections occur at a specific position, in this case from early-May to the start of August, for periods ranging up to 13 minutes per day.
- Finally, **Figure 8-C** shows where within the solar farm panel array the reflection rays of interest are emanating from, in this case from panels near the southwest corner.

Figure 8 Example Solar Glare Output Plots (SGHAT Software Output)



4.4 Other Factors Relevant to Glare Prediction

Weather

SGHAT and all commercially available glare models assume CLEAR skies all year round.

Stanislaus County (https://www.bestplaces.net/climate/county/california/stanislaus) is both drier and sunnier than US climate averages:

- 261 sunny days (versus a US average of 205).
- 56 rain days (versus a US average of 106).
- 33 cm of rain (versus a US average of 93 cm).

At the HEC, the weather is therefore expected to be overcast or mostly cloudy roughly 20% of the time throughout the year.

This means that the total annual minutes of duration for any potential glare conditions predicted using SGHAT (or any “clear sky” glare model) should be reduced by an appropriate “overcast” factor, resulting in overall lower impacts.

- Note however that this would only reduce the likely cumulative impact over the entire year.
- The maximum duration on any one day predicted by SGHAT would not be affected.

Terrain

Terrain features such as natural obstacles (vegetation, tree lines, etc.) are not explicitly considered within SGHAT.

These however can be added to the simulation as so-called “obstructions” which can model tree lines for example as solid (obstructing) walls. In this case, it would be assumed that the vegetation has dense coverage and is of an evergreen species.

Topography

Similarly, topography is not modelled within SGHAT.

This can only be overcome by an examination of the Viewshed Analysis often undertaken for such projects, which reveals which surrounding receivers (roadways, houses, etc.) will be able to “see” the solar panels within a proposed facility and hence experience reflections.

Alternatively, the “Elevation Profile” function available in Google Earth (or alternative mapping tools) may be able to identify sensitive receivers which do not have a view of the proposed facility.

5.0 Glare Impacts

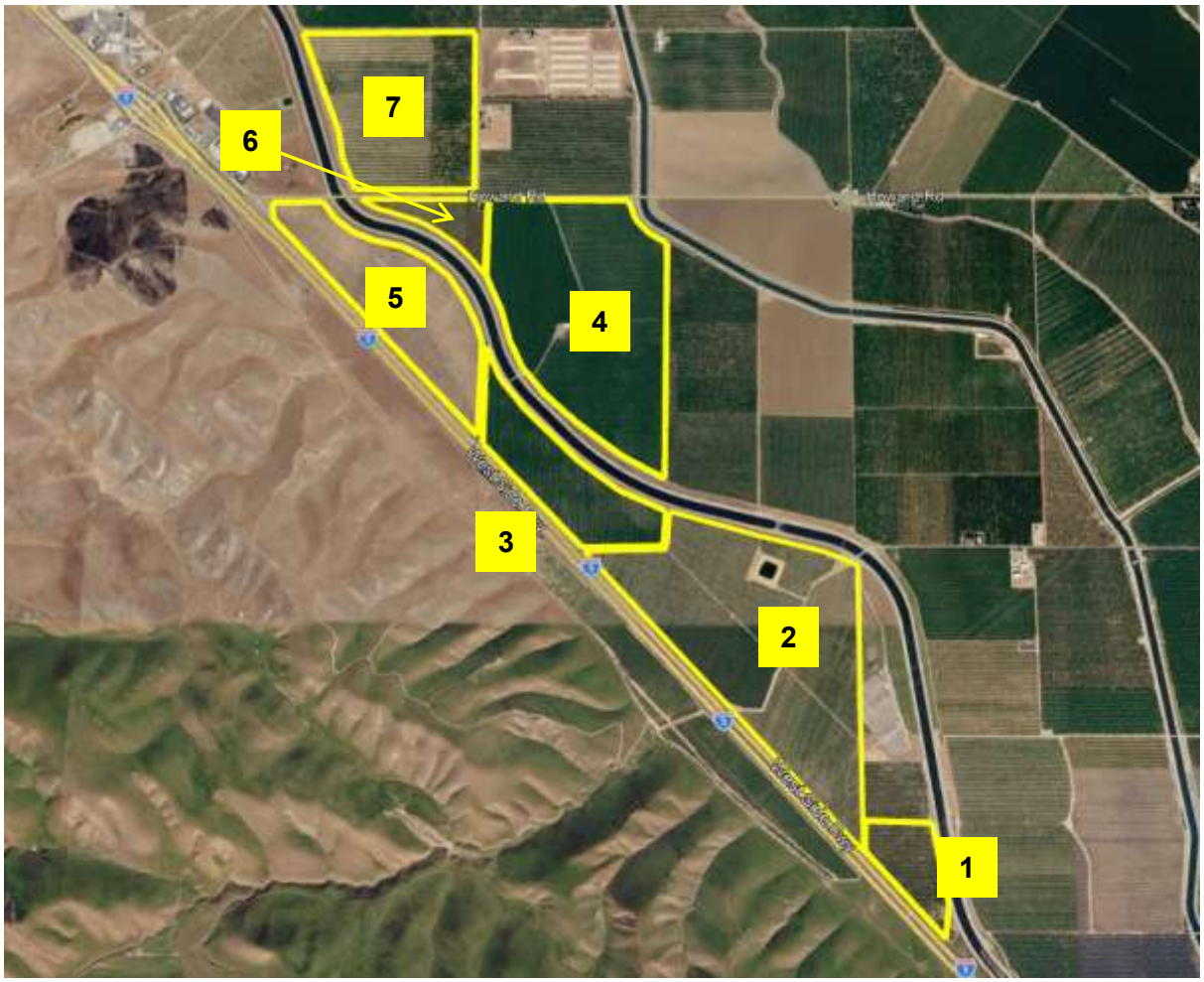
5.1 Modelling Inputs

Panel Sub-Arrays

Following the layout shown in **Figure 2**, the Project was modelled as seven smaller "sub-arrays" – refer **Figure 9**.

- This was done to better follow the undulating terrain of the site and give more detailed information as to which specific sub-areas of the proposed facility were responsible for potential glare occurrences.

Figure 9 Glare Modelling Sub-Arrays 1-7



Road and Residential Receptors

The roadways included in the analysis are shown in **Figure 10**. The motorist viewing heights for the roadways were as follows:

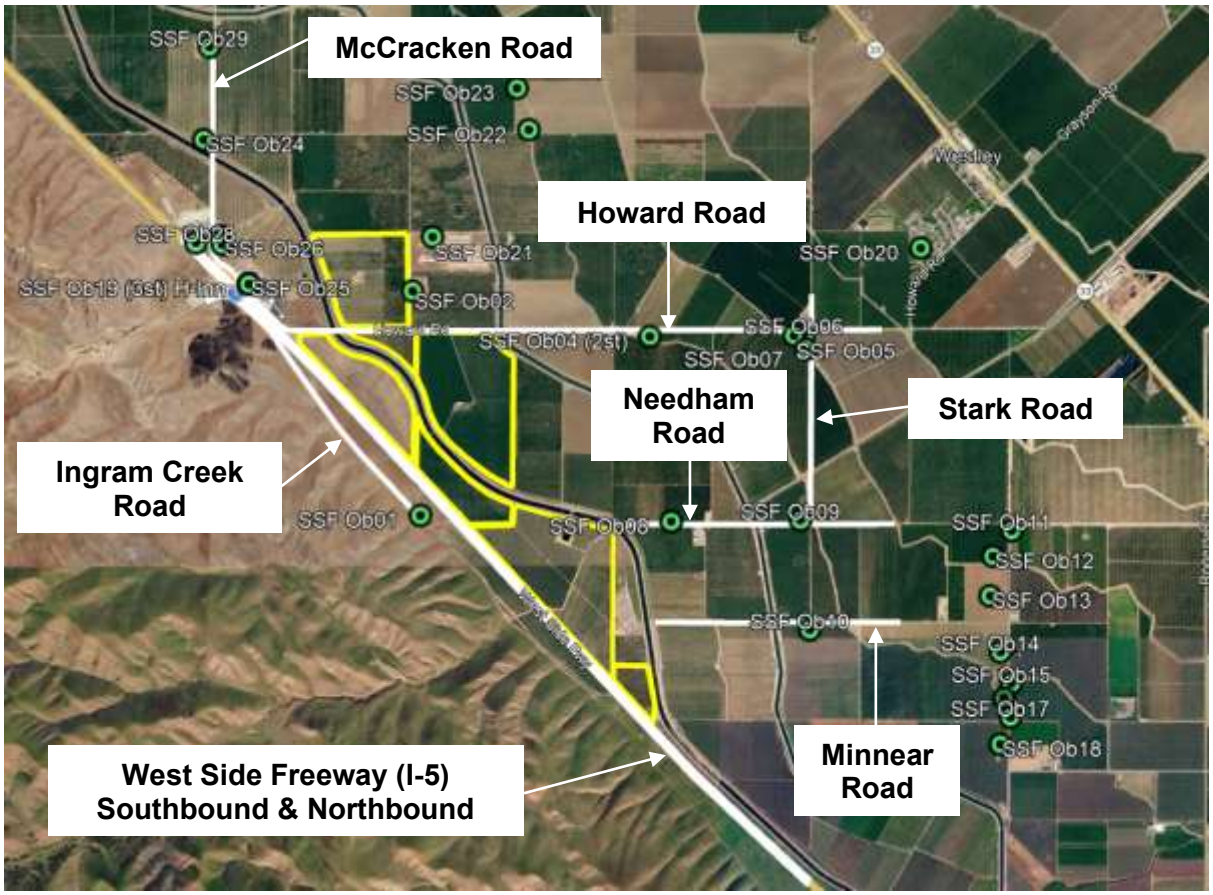
- 7.5 ft for the I-5 (Northbound and Southbound) McCracken Road and Howard Road.
- 6 ft for Markham Road, Needham Road, and Stark Road.
- 5 ft for Ingram Creek Road.

The 29 residential locations included in the analysis are also shown in **Figure 10**.

- For surrounding residential dwellings, the default observer height was set at 5 ft above the ground, unless the residence was known to be multi-storey, e.g. Ob03 (2-storey), Ob19 (3-storey).

The latitude and longitude coordinates of the representative residential locations shown in **Figure 10** can be found in **Appendix A**.

Figure 10 Roadway and Surrounding Residential Receiver Locations



Note 1: Ob = Observer

5.2 Modelling Staging Methodology

The modelling study involved the following stages:

Stage 1 Baseline Modelling

Rest Angle 0°; no existing vegetation screens; no allowance for shielding by intermediate topography.

Stage 2 Mitigation Modelling

Various mitigation options analysed to eliminate all potential glare.

5.3 Stage 1 – Baseline Modelling

The Project was modelled using the seven PV "sub-arrays" shown in **Figure 9** with the following assumptions:

- The median array height was modelled at 4.25 ft above ground.
- The Rest Angle was set to 0°.
- No vegetation or other screening (e.g. buildings) were included in the model.
- No allowance was made for the impact of intervening sections of topography which could obscure the view of the facility for passing motorists or residences.

This run was designed to give an initial indication of potential locations of glare prior to considering the need for mitigation and to identify which specific panel arrays were critical from the point of view of glare.

5.3.1 SGHAT Results

Table 2 shows the total annual minutes of potential SGHAT YELLOW glare, with both the individual PV sub-array annual minutes of glare and the total over all PV sub-arrays.

The residential receiver results in **Table 2** are shown with shading of the annual totals used to identify the relevant LSSE Guideline impact category:

- Green Low Impact < 10min/day OR < 10hr/year
- Orange Moderate Impact 10-30min/day OR 10-30hr/year
- Red High Impact > 30min/day OR > 30hr/year

Note again that the above LSSE green/orange/red categories are not relevant to road traffic disability glare.

Discussion – by Sub-Array

- Sub-Array 1 yielded no potential glare at all surrounding road and residential receivers.
- Sub-Arrays 3, 4, 5, 6 and 7 yield modest to moderate levels of potential glare at surrounding roads, but no glare for all residential receivers.
- Sub-Array 2 yields potential glare for both surrounding roads and for seven residential receivers.

Note again that, in this first round of modelling, no allowance was made for existing vegetation screening or topographic screening.

Table 2 Annual Minutes of SGHAT YELLOW Glare (Baseline Geometry)

Receptor	PV Sub-Array							Yearly Total
	1	2	3	4	5	6	7	
Howard Road	-	498	556	-	3456	2918	180	**7608**
Ingram Creek Road	-	462 NG	-	-	-	-	-	**462**
Minnear Road	-	1977 NG	-	-	-	-	-	**1977**
Needham Road	-	6247	-	356 NG	-	-	-	**6603**
Stark Road	-	67 NG	-	-	-	-	-	**67**
I-5 - Northbound	-		-	-	-	-	-	**124**
I-5 - Southbound	-	754 NG	-	-	-	-	-	**1153**
McCracken Road	-		-	-	-	-	-	-
Ob 01	-	149 NG	-	-	-	-	-	**149**
Ob 02	-		-	-	-	-	-	-
Ob 03	-		-	-	-	-	-	-
Ob 04	-	106 NG	-	-	-	-	-	**106**
Ob 05	-	368	-	-	-	-	-	**368**
Ob 06	-	495	-	-	-	-	-	**495**
Ob 07	-	1049	-	-	-	-	-	**1049**
Ob 08	-	558	-	-	-	-	-	**558**
Ob 09	-	-	-	-	-	-	-	-
Ob 10	-	-	-	-	-	-	-	-
Ob 11	-	-	-	-	-	-	-	-
Ob 12	-	-	-	-	-	-	-	-
Ob 13	-	-	-	-	-	-	-	-
Ob 14	-	-	-	-	-	-	-	-
Ob 15	-	-	-	-	-	-	-	-
Ob 16	-	-	-	-	-	-	-	-
Ob 17	-	-	-	-	-	-	-	-
Ob 18	-	-	-	-	-	-	-	-
Ob 19	-	-	-	-	-	-	-	-
Ob 20	-	161 NG	-	-	-	-	-	**161**
Ob 21	-	-	-	-	-	-	-	-
Ob 22	-	-	-	-	-	-	-	-
Ob 23	-	-	-	-	-	-	-	-
Ob 24	-	-	-	-	-	-	-	-
Ob 25	-	-	-	-	-	-	-	-
Ob 26	-	-	-	-	-	-	-	-
Ob 27	-	-	-	-	-	-	-	-
Ob 28	-	-	-	-	-	-	-	-
Ob 29	-	-	-	-	-	-	-	-

Note "NG" = No Glare due to the angle difference between incoming direct solar rays and reflections as seen by observer (refer **Section 5.3.2**).

Additional Observations

- Almost all instances of potential glare occur for afternoon conditions.
- The only occurrences of predicted glare for morning conditions are:
  - PV Sub-Array 2: Ingram Creek Road
  - PV Sub-Array 2: I-5 Southbound
  - PV Sub-Array 2: Residential Ob01
  - PV Sub-Array 7: Howard Road

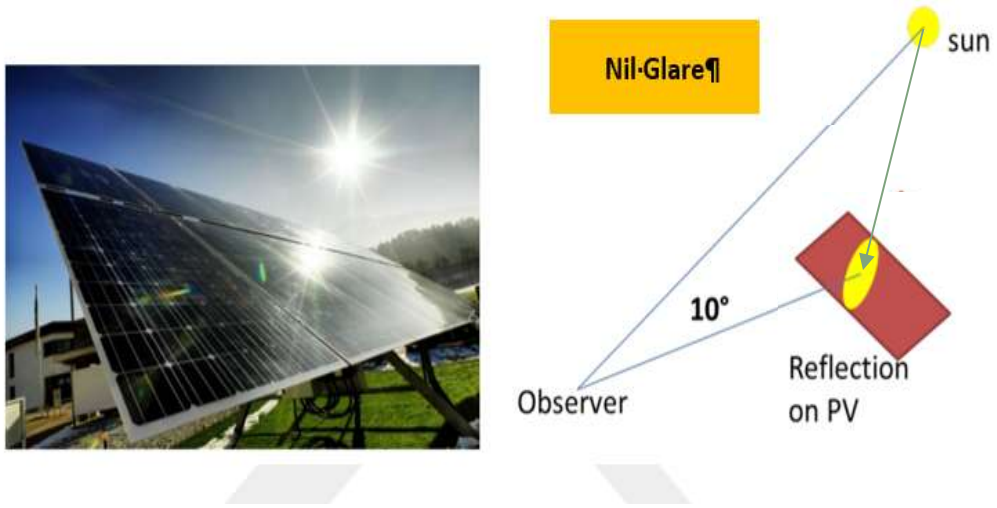
5.3.2 Reflections Not Considered as "Glare"

The predicted reflections shown in **Table 2** were examined further to assess whether they had the potential to cause actual glare.

The context of this assessment was made considering the observation made in **Section 3**, where it was noted that for very high incidence angles, it would almost always be the case that an observer would perceive reflections coming from virtually the same direction as the incoming solar rays themselves. Such a condition would not constitute a glare situation as the intensity of the incoming solar ray would dominate the field of vision perceived by the observer.

In fact, this latter condition has evolved into a globally adopted "acceptability" glare axiom, namely that a glare condition can only exist if the angle difference between an incoming solar ray and its associated reflection is greater than approximately 10° – refer **Figure 11**.

Figure 11 No Glare Condition Applicable to High Incidence Angle Reflections



Example Incidence Angle Occurrence diagrams are shown in **Figure 12** for:

- PV Sub-Array 2: Minnear Road
- PV Sub-Array 4: Needham Road

In both of the above cases

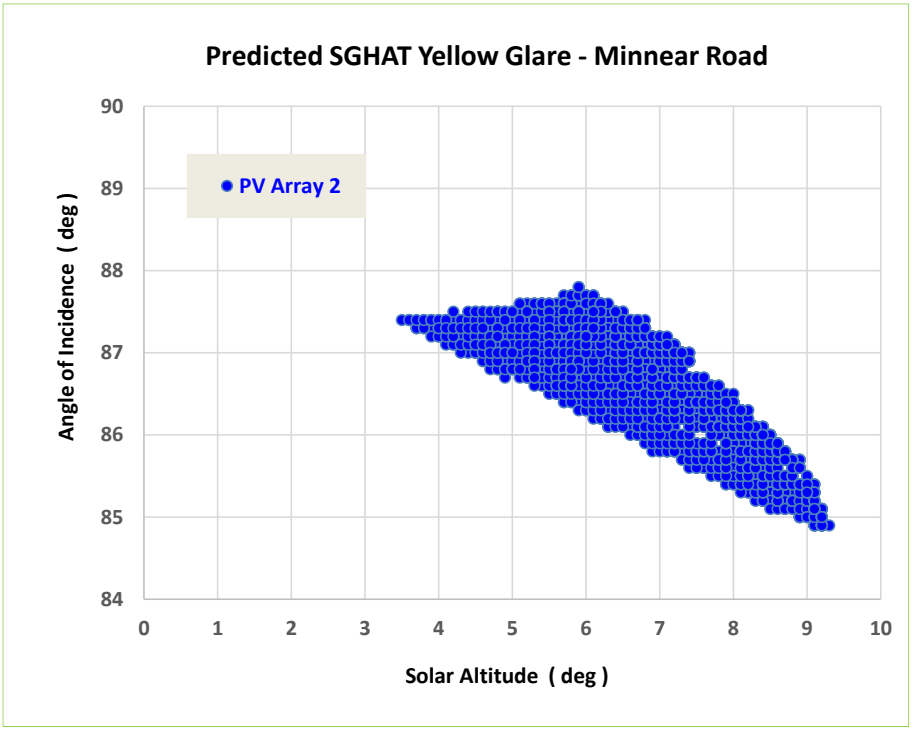
- Potential reflections impacting Minnear Road and Needham Road occur for very low altitude angles close to sunset.

- At those times, the incidence angles are very high (>85°).
- The resulting difference between the angle of incoming direct solar rays and associated reflections would be less than 10°.

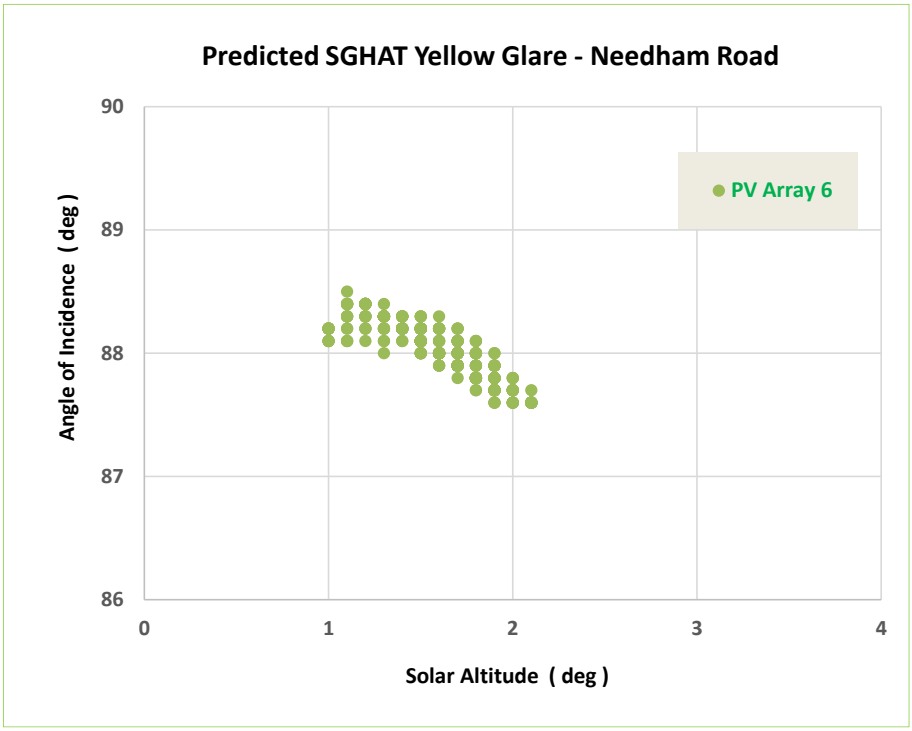
On this basis, the predicted reflections would not constitute a glare condition.

Figure 12 Representative Altitude and Incidence Angles for no Glare Cases

PV Sub-Array 2: Reflection onto Minnear Road



PV Sub-Array 4: Reflections onto Needham Road



All potential reflection conditions indicated in **Table 2** were assessed in terms of their incidence angle occurrence. Cases where the difference between the angle of incoming direct solar rays and associated reflections was less than 10° were identified. These have been marked a "NG" in **Table 2** (refer examples in **Figure 12**).

The remaining cases of actual potential glare are shown in **Table 3**, noting the following:

- All remaining cases of potential glare are for AFTERNOON reflections except for Sub-Array 7 which occurs in the morning and afternoon.
- This implies that there are NO restrictions on panel tracking during the MORNING period and the sunrise REST ANGLE can be set to 0° for the majority of the sub-arrays.
- Finally, NO allowance was made in **Table 3** for existing vegetation screening or topographic screening.

Table 3 Annual Minutes of SGHAT YELLOW Glare (Baseline Geometry, No Glare Condition taken into account)

Receptor	PV Sub-Array							Yearly Total
	1	2	3	4	5	6	7	
Howard Road		498	556		3456	2918	180	**7608**
Ingram Creek Road								
Minnear Road								
Needham Road		6247						**6247**
Stark Road								
I-5 - Northbound								**124**
I-5 - Southbound								**399**
McCracken Road								
Ob 01 - Ob 04								
Ob 05		368						368
Ob 06		495						495
Ob 07		1049						1049
Ob 08		558						558
Ob 09 - Ob 29								

Discussion – by Sub-Array

- Sub-Arrays 1 and 4 are predicted to yield no potential glare at all surrounding road and residential receivers.
- Sub-Arrays 3, 5 and 6 yield potential glare at surrounding roads, but no glare for all residential receivers.
- Sub-Array 2 yields potential glare for both surrounding roads and for 4 residential receivers.
- Sub-Array 7 yields potential glare for Howard Road

Mitigation option modelling designed to eliminate the above remaining instances of potential glare is examined in the following section.

5.4 Mitigation Option Modelling

5.4.1 Mitigation via Afternoon Rest Angle Curtailment

For most PV solar facilities, an effective means of limiting glare from solar PV arrays is to curtail the rest angle, i.e. not allow the full tilt angle at sunrise or sunset to reach 0°.

Table 4 shows the impact of altering the Rest Angle to 5° and 10°.

Discussion: Rest Angle 5°

- Potential glare was totally eliminated for ALL residential receivers.
- Potential glare was reduced on Howard Road.
- Potential glare on Needham Road (from PV Sub-Array 2) was reduced.

Discussion: Rest Angle 10°

- Potential glare was totally eliminated for ALL residential receivers.
- Potential glare was totally eliminated on Howard Road and Needham Road.

Conclusion

Mitigation via Rest Angle Curtailment is able to achieve the following:

- A Rest Angle of 5° eliminates all glare potential for PV Sub-Array 3, 5 and 6.
- A Rest Angle of 10° eliminates all glare potential for PV Sub-Array 2 and 7.

Table 4 Annual Minutes of SGHAT YELLOW Glare (Mitigation Modelling via REST ANGLE)

REST ANGLE = 5°

Receptor	PV Sub-Array							Yearly Total
	1	2	3	4	5	6	7	
Howard Road							10	**10**
Ingram Creek Road								
Minnear Road								
Needham Road		2126						**2126**
Stark Road								
I-5 - Northbound								
I-5 - Southbound		1021						**1021**
Ob 01 - Ob 04								
Ob 05								
Ob 06								
Ob 07								
Ob 08								
Ob 09 - Ob 20								

5.5 Mitigation Summary

The results of the mitigation option modelling are shown in **Table 5**.

The mitigations shown in **Table 5** would eliminate ALL instances of potential glare from the proposed facility.

Table 5 Mitigation Summary

Detailed PV Sub-Array (refer Fig.9)	Recommended Mitigation involving: Back-Tracking Rest Angle Curtailment OR Solar Panel Placement OR Vegetation Screening											
NO Mitigation Restrictions in Relation to Back-Tracking Rest Angle and NO Screening recommendations												
1 and 4	**Back-Tracking AM and PM can use Rest Angle 0°** (NO Restrictions)											
Mitigation involving Restriction on Back-Tracking Rest Angle NOTE: the restrictions below ONLY APPLY to the PM Afternoon-Sunset Period (there are NO Rest Angle restrictions for the AM Morning period) except for Sub-Array 7												
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2	**10°**			**0°** (NO Restriction)					**10°**			
3	**5°**		**0°** (NO Restriction)									**5°**
5	**5°**			**0°** (NO Restriction)							**5°**	
6	**5°**			**0°** (NO Restriction)							**5°**	
7	**10°**			**0°** (NO Restriction)					**10°**			

6.0 Night-Time Illumination Glare

6.1 Background and Criteria

Light spill from outdoor lighting has the potential to impact residents, transport users, transport signalling systems and locations dedicated to astronomical observations. Light spill from outdoor lighting can be influenced by a number of factors:

- Topology: light spill is more likely to be perceived as obtrusive if the lighting installation is located higher up than the observer. Lighting installations are usually directed towards the ground and an observer could have a direct view of the luminaire.
- Surrounding Terrain: hills, trees, buildings, fences, and general vegetation have a positive effect by shielding the observer from the light installation.
- Existing Lighting Environment: light from a particular light source is seen as less obtrusive if it is located in an area where the lighting levels are already high, e.g. in cities. The same lighting installation would be seen as far more bothersome in a less well-lit rural residential area.
- Zoning: a residential/rural area is seen as more sensitive compared to commercial/urban areas where high lighting levels are seen as more acceptable.

Typical illuminance levels for a variety of circumstances are given in **Table 6** for comparison.

Table 6 Typical Illuminance Levels for Various Scenarios

Lighting Scenario	Horizontal Illuminance (lux)
Moonless overcast night	0.0001
Quarter Moon	0.01
Full Moon	0.1
Twilight	10
Indoor office	300
Overcast day	1,000
Indirect sunlight clear day	10,000-20,000
Direct sunlight	100,000-130,000

Recommended criteria of light technical parameters for the control of obtrusive lighting relevant to the critical night-time period are provided in various international lighting standards, e.g. the CIE suite of standards. Key objectives for technical lighting parameters found in these standards are summarized in **Table 7**.

- Limits for luminous intensity for *curfew hours* apply in directions where views of bright surfaces of luminaires are likely to be troublesome to residents, from positions where such views are likely to be maintained.
- The vertical illuminance limits for *curfew hours* apply in the plane of the windows of habitable rooms or dwellings on nearby residential properties.
- The vertical illuminance criteria for *pre-curfew hours* apply at the boundary of nearby residential properties in a vertical plane parallel to the boundary.

- Limits for luminous intensity for *pre-curfew* hours apply to each luminaire in the principal plane, for all angles at and above the control direction.
- Values given in **Table 7** are for the direct component of illuminance, i.e. no reflected light is taken into account.

Table 7 Typical Recommended Maximum Values of Light Technical Parameters

Light Technical Parameter	Time of Operation	Zone "A4"	Zone "A3"	Zone "A2"	Zone "A1"	Zone "A0"
Illuminance in vertical plane (E_v)	Pre-curfew hours	25 lx	10 lx	**5 lx**	2 lx	ALARP [1]
	Curfew hours	5 lx	2 lx	**1 lx**	0.1 lx	0 lx
Luminous Intensity emitted by luminaires (I)	Pre-curfew hours	25,000 Cd	12,500 Cd	**7,500 Cd**	2,500 Cd	ALARP [1]
	Curfew hours	2,500 Cd	2,500 Cd	**1,000 Cd**	500 Cd	0 Cd

Zone A0	"Intrinsically Dark", e.g. UNESCO Starlight Reserve; IDA Dark Sky Parks; major optical observatories; no road lighting, unless specifically required by the relevant road controlling authority
Zone A1	"Dark", e.g. relatively uninhabited rural areas; no road lighting, unless specifically required by the relevant road controlling authority
Zone A2	"Low District Brightness", e.g. sparsely inhabited rural and semi-rural areas
Zone A3	"Medium District Brightness", e.g. suburban areas in towns and cities
Zone A4	"High District Brightness", e.g. town and city centers and other commercial areas; residential areas abutting commercial areas
ALARP	As low as reasonably practical

The Project is located in a semi-rural / rural area with the potential to impact on surrounding residential properties.

- These properties would be classed as being in a Zone "A2" area – refer **Table 7**.

The applicable limits for adverse spill light will also depend on the time of operation for the lighting installation, i.e. Pre-curfew or Curfew hours.

For the Project, it is understood that perimeter lighting may be incorporated into the Project, and that there may some night-time security lighting, suggesting the application of the more restrictive limit relevant to *Curfew hours*.

Accordingly:

- Light spill from the Project onto the facades of the surrounding residential dwellings should be kept below **1 lux** during Curfew hours.



6.2 Night-Time Illumination Glare – Assessment and Mitigation

The only potential for future night-time illumination glare, if night-time lighting is employed at the site, would be associated with the nearest roadways and residential receivers to the Project.

The recommendations below are therefore aimed at achieving the best lighting performance (taking into account safety considerations) while having a minimal impact on the surrounding properties, carriageways and nocturnal fauna.

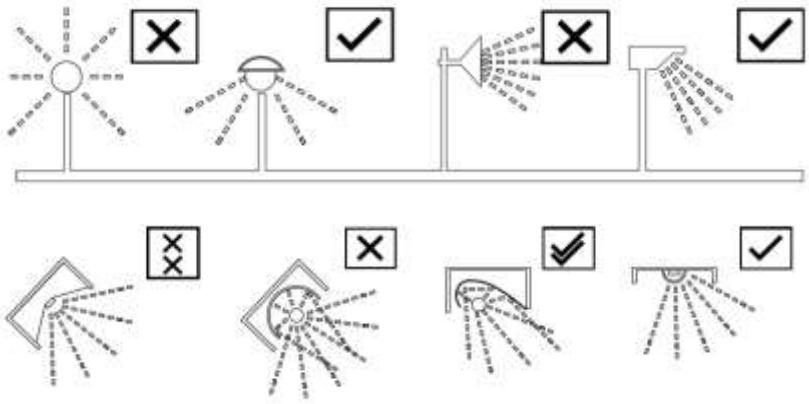
In terms of any future potential night-time lighting, the adopted goal of limiting night-time light spill to no more than 1 lux is expected to be readily achieved given the guidance available in:

- CIE 150:2017, *"Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations,"* 2nd Ed.

CIE 150-2017 sets out general principles that should be applied when designing outdoor light to minimise the potential adverse effects of a light installation. It is expected that these will be applied to the design of the project lighting.

- Direct lights downward as much as possible and use luminaires that are designed to minimise light spill, e.g. full cut-off luminaires where no light is emitted above the horizontal plane, ideally keeping the main beam angle less than 70°. Less spill-light means that more of the light output can be used to illuminate the area and a lower power output can be used, with corresponding energy consumption benefits, but without reducing the illuminance of the area – refer **Figure 13**.
- Do not waste energy and increase light pollution by over-lighting.
- Wherever possible use floodlights with asymmetric beams that permit the front glazing to be kept at or near parallel to the surface being lit.

Figure 13 Luminaire Design Features that Minimise Light Spill (refer CIE 150-2017)



7.0 Conclusion

SLR has conducted a glare assessment of the proposed HEC solar farm located in Stanislaus County, California.

Baseline calculations were initially carried out under the following assumptions:

- The median array height was modelled 4.3 ft above ground.
- The Back-Tracking Rest Angle was set to 0° using the shade-slope method.
- No vegetation or other screening (e.g. buildings) were included.
- No allowance was made for the impact of intervening sections of topography which could obscure the view of the facility for passing motorists or residences.

The baseline results showed the potential for glare impact to occur at several surrounding locations.

- Half of these instances could be discounted as the observer would also be looking almost directly at the sun at the times when these occurred.

Mitigation glare modelling showed that the residual impacts could be mitigated through the following methods.

- Control of the Afternoon Back-Tracking Rest Angle for:
  - September-March for Sub-Array 2.
  - November-January for Sub-Array 3.
  - October-February for Sub-Array 5.
  - October-February for Sub-Array 6.
- Control of the morning and afternoon Back-Tracking Rest Angle for:
  - April-August for Sub-Array 7.

These measures are detailed in **Table 5**.

If night-time lighting is incorporated into the Project, there will not be any potential for future nuisance glare if the following is adopted:

- Setting a goal of limiting light spill to no more than 1 lux falling on the nearby residential facades during night-time curfew hours; combined with
- Following the general light spill minimisation design principles found in standard 150-2017 of the International Commission on Illumination (CIE 150-2017).

8.0 Closure

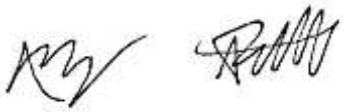
This document has been prepared by SLR International Corporation (SLR).

The material and data in this report were prepared under the supervision and direction of the undersigned.

Regards,

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Appendix A Model Inputs

Hondeville Energy Center

Glint and Glare Assessment

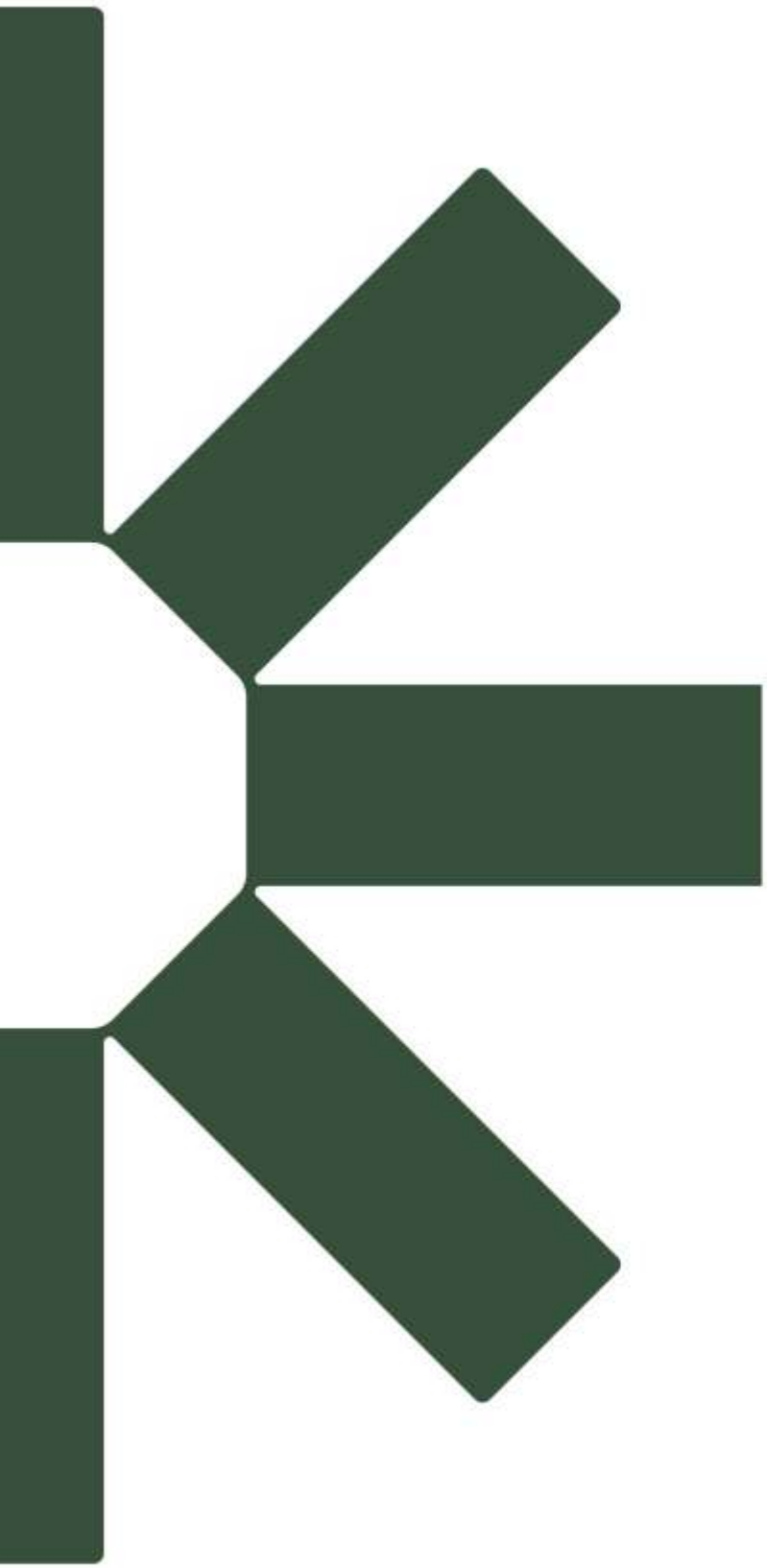
Elevated Entitlements

SLR Project No.: 123.V21836.00001

14 October 2026

Revision: 5

Location	Latitude	Longitude
Ob 01	37.523187	-121.249335
Ob 02	37.539377	-121.250370
Ob 03	37.536228	-121.228577
Ob 04	37.536785	-121.217895
Ob 05	37.536802	-121.214441
Ob 06	37.535190	-121.214001
Ob 07	37.522481	-121.226612
Ob 08	37.522219	-121.224087
Ob 09	37.522568	-121.214648
Ob 10	37.514719	-121.213768
Ob 11	37.522006	-121.195132
Ob 12	37.520138	-121.196768
Ob 13	37.517141	-121.197294
Ob 14	37.512761	-121.196304
Ob 15	37.510772	-121.195100
Ob 16	37.509690	-121.195911
Ob 17	37.508275	-121.195271
Ob 18	37.506383	-121.196192
Ob 19	37.539875	-121.265418
Ob 20	37.542379	-121.203502
Ob 21	37.543481	-121.248429
Ob 22	37.551409	-121.239706
Ob 23	37.554411	-121.240773
Ob 24	37.550594	-121.269456
Ob 25	37.540237	-121.265227
Ob 26	37.542999	-121.267938
Ob 27	37.543568	-121.268115
Ob 28	37.543181	-121.270390
Ob 29	37.557200	-121.269141



Making Sustainability Happen

Visual Impact Assessment Memorandum
Hondeville Energy Center

Prepared for:
Mid Valley Power
Hondeville Energy Center

Prepared by:
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215 E Thousand Oaks Blvd #2
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October 15, 2026

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1. Introduction

1.1 Purpose of Report and Assessment Methodology

The purpose of this Visual Impact Assessment (VIA) memorandum is to document potential visual change in the Area of Visual Effect (AVE) for the Hondeville Energy Center Project (Project). This memorandum follows the guidance outlined in the publication "Guidelines for the Visual Impact Assessment of Highway Projects," published by the Federal Highway Administration (FHWA) in January 2015. The formatting of this template is aligned with the directions and examples included in the Caltrans 2023 VIA Handbook (Handbook).

2. Visual Impact Policy

The California Scenic Highway Program

The California Scenic Highway Program was created by the Legislature in 1963 to preserve and protect scenic highway corridors from changes and development that would diminish the aesthetic value of lands adjacent to highways. Under the program, certain state highways are designated as "Officially Designated State Scenic Highways" once the local jurisdiction adopts and implements a Corridor Protection Program (CPP).

When a City or County nominates an eligible scenic highway for official designation, it must adopt ordinances to preserve the scenic quality of the corridor or document such regulations that already exist in various portions of local codes. These ordinances make up the scenic corridor protection program.

The County of Stanislaus (County) does not have a CPP developed to implement screening policies to preserve scenic qualities, including regulation of land use and density development, control of outdoor advertising, or control over earthmoving and landscaping. Instead, the County has General Plan policies to protect State Scenic Highways and would defer to the Caltrans program. Therefore, there are no specific screening requirements set in place for this State Scenic Highway through a CPP. Projects within the County that impact Officially Designated State Scenic Highways must submit their analysis of visual impacts to both the California Department of Transportation (Caltrans) and the County for review and approval. Screening consisting of a mixture of chain-link fencing with slats and/or drought tolerant vegetation will be required by the County. While there is no specific requirement for the size of plants that will be incorporated onsite, the final size of the screening tree as maturity will be analyzed by the County and Caltrans to confirm the effectiveness of screening impacts to the proposed Project based on site conditions and elevations.

Stanislaus County General Plan

Section 65302 (h) of the Government Code requires the general plan to include a Scenic Highways Element for the development, establishment, and protection of scenic highways pursuant to the provision of the Streets and Highways Code

The Stanislaus County General Plan 2015 (General Plan) emphasizes preservation of scenic resources as a primary planning goal. Chapter 2, the Circulation Element, states: "Interstate 5 is the only officially designated State Scenic Highway in Stanislaus County. Standards for official designation of scenic highway rest on the analysis, planning, and protection of the scenic corridor through which the highway traverses" (GP, 2-21). The Circulation Element provides enforceable provisions tied to state scenic designation, which include maintaining areas which are in their natural or undeveloped conditions and imposing land use controls within the corridor to maintain the natural beauty of the area.

3. Establishment Phase

3.1 Project Location

The Project would be located in the community of Westley, in unincorporated Stanislaus County, California, generally at 3348 Howard Road (Project site). The Project site is bound by Howard Road to the north with Interstate 5 (I-5) and the California Aqueduct forming much of the western and eastern boundary, respectively. The Project site is primarily surrounded by rural, agricultural land.

The Project site would be comprised of 13 Accessor's Parcel Numbers (APNs) parcels (021-015-021, 021-015-025, 021-015-024, 021-015-026, 021-015-023, 021-013-018, 021-013-020, 021-013-001, 021-007-008, 021-007-009, 016-037-037, 016-037-038, and 016-037-039), totaling approximately 738.62 acres.

3.2 Existing and Surrounding Land Use

Existing structures on the Project site include a modular home, agricultural structure, and small solar array on APN 021-013-001, as well as a small structure / mobile home and outdoor vehicle/equipment storage area on APN 016-037-039. Farming across the Project site is sporadic over the year for crop maintenance. Primary harvest seasons are currently May through June for the cherry and apricot crops and August through October for the almond crops. The Stanislaus County General Plan 2015 (General Plan) designates all 13 parcels as Agriculture, and the County's Zoning Ordinance zoned the parcels as General Agriculture – 40 acres. Eight parcels totaling approximately 544.83 acres within the Project site (APN 021-015-021, 021-013-020, 021-013-001, 021-007-009, and 021-007-008, 016-037-037, 016-037-038, and 016-037-039) are enrolled under active Williamson Act Contracts. Additionally, the Project site is in the Del Puerto Water District (Water District) and is currently irrigated by groundwater and limited surface water. Surface water

is provided through the Water District and delivered by various surface water pumps and pipelines from the Delta-Mendota Canal as part of the Central Valley Project (CVP). Ground water is supplied by agriculture water wells located across the Project site located on APN 021-015-021, 021-015-023, 021-013-001, 021-007-008, 016-037-038 and 016-037-039. A new irrigation reservoir is located on APN 021-015-023.

While much of the surrounding land is rural, agricultural land, three single-family homes are located east of the Project, the closest being 100 feet to the east, and a truck stop is located approximately 540 feet north. The truck stop includes a gas station, various commercial/retail uses, and a hotel approximately 1,818 feet to the west of the Project site.

3.3 Project Description

Development of the Project would include the demolition of the existing structures on APN 021-013-001 and 016-037-039, and the development of a utility-scale single-axis tracking solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility, as shown in Exhibit A.

The single-axis tracking solar PV electricity generation (solar panel) component of the Project would be sized to produce 130 megawatt alternating current (MWac). Depending on the ultimate type of solar module selected, the total height of the solar panels measured from the ground surface would be between 4 feet and 6 feet when the solar array is in a flat orientation to as high as 12 feet when the array is in a tilted orientation to the east or west. The solar array is anticipated to have an estimated 40 percent ground coverage ratio (GCR).

The proposed BESS component of the Project is sized to charge and discharge up to 160 MWac which will be limited to a maximum of 130MWac at the point of interconnection and store up to 320 megawatt-hours (MWh) of energy. With the inclusion of foundation piles, each BESS container would be approximately 9.5 feet in height.

A 34.5kV to 115kV Project substation would be constructed on APN 021-015-021 to connect the solar PV and BESS Project components to the existing adjacent Turlock Irrigation District 115kV Westley substation. The Project substation will include two 34.5kV to 115kV transformers in addition to 34.5kV and 115kV breakers and other high voltage equipment. A control center enclosure will also be located on APN 021-015-021 in the substation vicinity. . The substation would be approximately 50 feet in height and have 2 to 3 transmission line towers approximately 90 feet in height connecting to the existing TID Westley substation.

The Project will be required to obtain an encroachment permit from the DWR for the two 34.5 kW overhead distribution lines proposed to cross the California Aqueduct. The power line towers on each side of the aqueduct are expected to be approximately 90 feet tall and span the entire Aqueduct. Additionally, multiple 34.5kV underground 34.5kV distribution lines will cross a petroleum line owned and operated by Crimson Midstream, LLC through the southern portion of the site.

Lastly, two radial existing PG&E overhead distribution power lines serving existing infrastructure on the Project site with be removed across APN 021-013-020, 021-013-001, 021-007-008 and 021-007-009.

Finally, the proposed Project would include a seven-foot-tall chain-link fence around the perimeter of the Project site that would incorporate a10-foot-wide landscaping strip of drought tolerant evergreen trees or shrubs along I-5 , Howard Road, and along the eastern side of the North portion of the Project site near residential dwellings. The final size of the tree at maturity will reach 20 to 30 feet. The Project would also include an eight-foot chain-link fence around the perimeter of the approximately 15-acre substation and BESS facility. The substation and BESS facility will also include a 24-foot-wide emergency vehicle access gate and 20-foot emergency vehicle access road. All other vegetation on the Project site would be completely removed from the areas containing the solar panel and BESS facilities.

The Project will be un-manned during operations, with no habitable buildings or restroom facilities. The developer is requesting a Use Permit from the County to operate the solar facility for a term of 35 years, providing reliable renewable energy to the region.

3.4 Description of Area of Visual Effect

The area of project visibility is referred to as the AVE, which encompasses the geographic extent within which the Project may be visible to viewers. The AVE is determined by the physical constraints of the environment, such as topography and vegetation, and the physiological limits of human sight.

For this Project, the AVE is defined as the area within approximately three to five miles of the Project site, where project components may be visible from publicly accessible vantage points. The AVE is primarily oriented along I-5 corridor, which serves as a prominently traveled viewer. Key viewing locations include segments of I-5 adjacent to and north and south of the Project site, as well as local roadways such as Needham Road and Howard Road. The AVE also includes views from the California Aqueduct corridor, which runs through the north-central portion of the site and provides an open visual corridor with limited vertical obstruction. In addition, the AVE encompasses views from an adjacent truck stop located along I-5 and three existing residential homes located east of the Project, with the closest home being 100 feet east of the Project boundary, which represents stationary viewers of the Project site; see Exhibit D.

The AVE boundaries are generally limited by the region's flat topography and the absence of significant urban development. Within the site, there are surface elevations varying between approximately 212 feet above mean sea level (amsl) to approximately 371 feet amsl, gradually increasing in elevation from the northern section of the site to the south.

3.5 Visual Resources and Scenic Resource

Scenic and visual resources can be both places (such as scenic byways, parks, and historic sites) and features (such as trees and rock outcroppings). An inventory of publicly available and accessible visual and scenic resources within the AVE was explored through the acquisition of GIS data, review of town, county, and agency reports, topographic data, and site visits along with photographic documentation. In addition, Appendix A, Identifying Scenic Resources, of the Caltrans Visual Impact Assessment Handbook, August 2023, was referenced in determining potential scenic resources.

The portion of I-5 parallel to the Project site, which is listed as a California Scenic Highway, is classified as a scenic resource and within the AVE. Caltrans classifies this portion of I-5 based on the amount of natural landscape that can be seen by travelers, the scenic quality of the landscape, and the extent to which development intrudes upon the traveler's enjoyment of the view. I-5 was officially designated on June 7, 1974. Furthermore, I-5 fall under this classification due to the views of the Diablo Mountain Range to the west, Sierra Nevada to the east, the minimal urbanization, and the expansive agricultural landscapes.

4. Inventory Phase

4.1 Description of Landscape Visual Character

Landscape visual character is created by the way the physical features of the landscape come together and can be defined as "a distinct, recognizable and consistent pattern of elements in the landscape that makes one landscape different from another".

The proposed Project is located within U.S. Environmental Protection Agency (EPA) Level IV Ecoregion 7o. The U.S. Department of the Interior states that Ecoregion 7 has "Flat, intensively farmed plains with long, hot, dry summers and mild winters distinguish the Central California Valley ecoregion from its neighboring ecoregions that are either hilly or mountainous, covered with forest or shrub, and generally non-agricultural. Ecoregion 7 includes the flat valley basins of deep sediments adjacent to the Sacramento and San Joaquin Rivers, as well as the fans and terraces around the edge of the valley. The two major rivers flow from opposite ends of the Central California Valley, entering into the Sacramento–San Joaquin River Delta and San Pablo Bay. The region once contained extensive prairies, oak savannas, desert grasslands in the south, riparian woodlands, freshwater marshes, and vernal pools. More than one-half of the region is now in cropland, about three-fourths of which is irrigated. Environmental concerns in the region include salinity due to evaporation of irrigation water, groundwater contamination from heavy use of agricultural chemicals, loss of wildlife and flora habitats, and urban sprawl." Ecoregion 7o is noted by the Westside Alluvial Fans and Terraces. According to the U.S. Geological Survey Open-File Report 2016–1021, this ecoregion "is on very gently to gently sloping terraces and alluvial fans along the western edge of the San Joaquin Valley, adjacent to the Coast Ranges. Elevations

range mostly from 5 to 300 feet, reaching 900 feet in the west. The soil temperature regime is thermic; soil moisture regimes are xeric, but aridic in the south. Vegetation includes perennial and annual grasslands and bladderpod and ephedra shrublands. Vernal pools and winter ponding occur. Agricultural land use is dominant, with grassland at the western margin."

The landscape visual character within the Project AVE is primarily rural agricultural. The landscape visual character consists of one landscape unit, with primarily visually homogeneous features and only one viewshed and two landscape type. The first landscape type is defined by expansive agricultural plains and consists of large rectilinear field patterns that dominate the foreground and middle ground views. Vegetation is generally limited to crop cover. The second landscape type is defined by open grassland hills, with transmission towers dispersed throughout. This landscape unit also includes the California Aqueduct and Interstate 5, introducing pavement and signage that contrast with surrounding fields. Additionally, an existing electrical substation within the Project vicinity contributes vertical and industrial elements, including metal structures, and electrical equipment in the landscape.

Figure 1



View of Existing Visual Character from I-5 facing Southeast with agriculture and California Aqueduct visible

Figure 2



View of Existing Visual Character from I-5 facing Southeast with agriculture and California Aqueduct visible

Figure 3



View of Existing Substation from I-5 facing Northeast

4.2 Description of Landscape Visual Quality

Visual quality is the viewer's overall aesthetic impression of a view or a landscape. Landscape visual quality considers the intactness, unity, and vividness of natural, cultural, and existing visible project environments. Natural environments include land, water, vegetation, animals, and atmospheric conditions. Cultural environments include building, infrastructure, other structures, art or artifacts. Existing project environments include natural and cultural elements within the project boundary, including right of way grading, constructed elements, highway planting and other vegetation cover, and ancillary visual features.

Intactness is the degree to which a landscape maintains its natural or characteristic visual qualities without disruption from features that are out of place, missing, or in poor condition. Unity is the degree to which the features within a landscape are visually organized, balanced, and compatible with one another, creating a sense of harmony and coherence. Vividness is the degree to which a landscape stands out and captures attention due to the strong visual elements such as line, form, color, texture, or movement.

The Project site consists of natural and cultural elements, including agriculture, hillsides, highways, and surrounding electrical infrastructure. The landscape unit has medium intactness, as there are no extraneous features or distractions located within the landscape. The landscape unit has medium unity. The design features are well balanced; however, the presence of human made infrastructure, such as the electrical substation to the southeast of the project site, the existing residences to the east of the Project site, and the California Aqueduct forming much of the western and eastern boundary, which introduce engineered elements that contrast with the surrounding landscape character and slightly disrupt the overall visual harmony. Finally, the landscape unit has low vividness, as the existing design features are plain and do not significantly enhance the view.

4.3 Viewers

Viewer sensitivity of neighbors (people with views of the Project) and of travelers (people viewing the Project while traveling through the AVE) have been analyzed.

As the site is adjacent to I-5, travelers driving on I-5 will be the primary viewer of the proposed Project. In addition, there are three residential homes located east of the Project site, with the closest being approximately 100 feet from the Project site boundary, and there is a truck stop located approximately 540 feet northwest of the Project site, which includes a gas station, a hotel, and various commercial/retail uses. People would be able to view the Project from both locations as well.

The Project will include a seven-foot-tall chain-link fence around the perimeter of the Project site that would incorporate a 10-foot-wide landscaping strip of drought tolerant evergreen trees or shrubs along I-5, Howard Road, and along the eastern side of the North portion of the Project site

near residential dwellings. The final size of the tree at maturity will reach 20 to 30 feet. The Project would also include an eight-foot chain-link fence around the perimeter of the approximately 15-acre substation and BESS facility. Although the solar arrays may reach 12 feet when tilted towards the east or west, the BESS will reach 11 feet with foundation piles, the substation's components will reach up to 50 feet with 2 – 3 transmission line towers as high as 90 feet, with remaining components such as the PDC not exceeding 25 feet, and lastly the DWR pole crossing will reach as high as 90 feet, the proposed screening would reduce direct views of the solar arrays and associated equipment and soften views of the Project from public vantage points, including I-5. Therefore, due to the implementation of fencing and drought tolerant screening proposed along the perimeter of the proposed Project along I-5,Howard Road and near residential dwellings, there would not be significant impacts to viewers from the proposed Project. Furthermore, the site already contains transmission line towers exceeding 100 feet in height and the neighboring TID Westley substation well exceeding 50 feet and visible from Highway I5.

Viewer exposure is a measure of the viewer's ability to see a particular object, with three attributes, including proximity, extent, and duration.

When analyzing proximity, the existing residential homes to the east of the Project site would have a closer view of the proposed Project, as the homes range from approximately 100 feet to 130 feet east of the project boundary. However, there are no views that are more impacted than others to the proposed Project that would result in more significant impacts, given the consistent fencing and vegetative screening near the residential homes.

Regarding viewer extent, the three main viewer groups that would be impacted by the proposed Project would be travelers driving along I-5, viewers traveling down Howard Road and viewers from the adjacent residential homes. Although I-5 carries regional and interstate traffic, the surrounding land uses in this portion of Stanislaus County are predominantly agricultural, with limited adjacent development or scenic destinations that would concentrate viewer activity at this specific location. The Project would be visible from approximately 2.75 miles of I-5 frontage. However, the duration of potential views would be brief due to elevation changes and the high travel speeds along the I-5 and incorporation of perimeter fencing and drought tolerant vegetative screening. Therefore, impacts to a particular view would not increase or lessen based on the length of time to view the Project.

Viewer awareness is a measure of the viewer's recognition of a particular object, with three attributes, including attention, focus, and protection. Viewer attention, which examines how observant viewers are to their surroundings, is anticipated to be low to moderate, as the surrounding landscape in the unincorporated County is characterized primarily by agricultural operations and utility infrastructure, with limited presence of residential or commercial uses. In addition, the proposed Project includes perimeter fencing and drought tolerant vegetation screening along I-5 and Howard Road, which would reduce visibility of solar panels and associated equipment from public viewing, lowering viewer attention to the facility. Viewer focus, which relates to if there is an iconic focal point, would be generally broad and general, as the existing view consists of open agricultural fields, and is not centered on a specific scenic feature.

Viewer preference considers the extent to which a viewer group places value on visual quality, as well as whether a particular visual resource is formally recognized or protected at the local, State, or national level. Because the Project is located adjacent to a State Scenic Highway, viewers are anticipated to exhibit sensitivity to visible changes in the landscape. However, the incorporation of perimeter fencing and drought tolerant vegetative screening along I-5 and Howard Road would shift the viewer's experience from direct views of utility infrastructure to views of landscaped elements, thereby reducing potential visual contrasts. Therefore, neighbors (people with views of the Project) and travelers (people with views from the Project) will not be significantly impacted by the proposed Project.

4.4 Viewpoints

Viewpoints can be vistas, open landscape views, ocean views, views of important mountains, views of historic or attractive buildings, rock outcrops, heritage trees, tree groves etc. Viewpoint sensitivity is a judgment of the scenic importance of a viewpoint and whether it is part of an identified scenic resource. The importance of each viewpoint, and the level of viewpoint sensitivity, is determined from three factors, including the level of scenic resource designation and importance in the view, the distance of the scenic or visual resource from the Project, and the visual quality of the scenic or visual resource. The Handbook scoring requires a narrative of the viewpoint, and must include a descriptive rank, and a numeric rating, as discussed below.

The level of scenic resource designation is high (+3) for nationally or state recognized scenic resources, moderate (+2) for regionally and locally recognized scenic resources, low (+1) or moderate (+2) for visual resources identified by the preparer of the VIA report (based on their professional judgement), and none (0) for scenic and visual resources that are not visible from any publicly accessible viewpoints. The distance from the Project viewpoint sensitivity factor is rated: high (+3) when the scenic or visual resource is in the immediate foreground; moderate (+2) when the scenic or visual resource is in the foreground; low (+1) when the scenic or visual resource is in the middle ground; and none (0) when the scenic or visual resource is in the background. The visual quality of the scenic or visual resource should be rated based on its intactness, unity and vividness on the same scale (0 through +3).

For the proposed Project, the level of scenic resource designation would be high (+3), due to the Project's proximity to the State Scenic Highway. The distance of the scenic or visual resource from the Project would be rated high (+3), given the State Scenic Highway is in the immediate foreground of the Project site. The visual quality of the scenic or visual resource, which is based on intactness, unity and vividness of the scenic resource would be moderate (+2), given medium intactness, medium unity, low vividness, as analyzed above in Section 4.2. Therefore, the proposed Project would have high visual sensitivity, with a numeric ranking of eight out of nine.

5. Analysis Phase

5.1 Evaluation of Visual Impacts

The surrounding visual environment consists of cultivated fields, irrigation features, electric transmission lines, rural infrastructure, and I-5. The Project would represent a change from agriculture to renewable energy infrastructure.

Temporary visual impacts may occur during construction, including road improvements constructing laydown areas, vegetation removal, material transport, solar racking assembly, and associated infrastructure development. Anticipated visual contrasts may include contrasts in form, line, color, and texture resulting from road upgrading; construction and use of staging and laydown areas; vehicular, equipment, and worker presence and activity; and dust. However, due to the temporary nature of the proposed construction activities, this would not result in a significant impact to scenic resources.

The proposed Project would introduce solar arrays, inverters, a substation, BESS, perimeter fencing and drought tolerant vegetative screening to the subject site. Solar arrays are low-profile, horizontally oriented features that would not significantly exceed existing site contours. As discussed above, the solar arrays will reach 12 feet when titled towards the east or west, the BESS will reach 11 feet with foundation piles, and the substation's components will reach 50 feet with 2 – 3 transmission line towers as high as 90 feet, with remaining components, such as the PDC not exceeding 25 feet. The implementation of seven-foot chain-link fencing with a 10-foot-wide landscaping strip of drought tolerant evergreen trees or shrubs along I-5, Howard Road and residential dwellings, along with an eight-foot chain-link fence around the perimeter of the approximately 15-acre substation and BESS facility, would soften views of the Project from public vantage points, including I-5.

While the presence of a State Scenic Highway elevates viewer sensitivity relative to local rural roads, views from I-5 are generally experienced at high travel speeds and for limited duration. In addition, because the Project's design incorporates fencing and vegetative screening to reduce visibility along I-5 and Howard Road, and the surrounding landscape is predominantly agricultural, overall viewer sensitivity in this context is considered moderate. Photo simulations from representative vantage points were developed to provide a view that will occur as a result of the Project (Exhibit B). These photos indicate that long-term visual impacts will be limited to the provided screening. The primary viewers affected are travelers along local roadways, viewers from the truck stop, and nearby rural residences and farmlands.

Although the Project may alter the visual character of the site, the scenic quality would not substantially degrade and no dominant visual elements incompatible with the surrounding landscape would be introduced. Based on the Project's visual compatibility with the existing agricultural setting, the limited duration of views from I-5, and the incorporation of fencing and drought tolerant vegetative screening, the overall visual impact of the Project would not be

significant. An analysis of potential impacts has been provided below, by addressing each of the thresholds in CEQA Guidelines, Appendix G, Environmental Checklist for Aesthetics:

Would the project:

a) Have a substantial adverse effect on a scenic vista?

The Project would not have a substantial adverse effect on scenic vista. A scenic vista is a public viewpoint that provides expansive views of a valued landscape. Although the Project is adjacent to I-5, a State Scenic Highway, the Project is not located within a scenic vista, due to the lack of distinctive scenic features and recognized scenic value. Given the presence of existing visual elements, including developed agricultural land, highway infrastructure, signage, electric transmission lines, a large regional electric substation, and an adjacent truck stop, the proposed Project would not contribute to the degradation of a scenic vista. In addition, the Project would soften visual impacts to scenic vista, with the proposed fencing and landscape screening incorporated as part of the design. Therefore, impacts would be less than significant.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

The Project is adjacent to I-5, which is a State Scenic Highway. The site consists primarily of cultivated agricultural land and does not contain prominent rock outcroppings, native trees, or known historic structures that contribute to scenic quality within I-5. The Project would not remove or materially damage protected scenic resources. In addition, the Project would soften visual impacts with the proposed fencing and landscape screening incorporated along I-5 and Howard Road as part of the design. Therefore, impacts would be less than significant.

c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

The proposed Project is located within a nonurbanized area. The Project would convert developed agricultural land to renewable energy infrastructure, resulting in a change in land use appearance. However, the visual character of the broader area would remain rural and would not degrade the existing visual character or quality of public views of the site and its surroundings. The Project would not introduce substantial vertical development, and the Project's low profile and vegetative screening would reduce visual impacts to public views. Therefore, impacts would be less than significant.

d) Create a new source of substantial light or glare which would adversely affect day or night-time views in the area?

The proposed Project was analyzed through a separate Glint and Glare Assessment, prepared by SLR International Corporation in October 2026. The Assessment considered the daytime potential glare conditions (reflective glint and glare arising from the solar PV panels within the facility) and night-time potential glare conditions (Illumination glare from 24/7 operational security lighting within the facility) from the proposed Sub-Arrays locations (Exhibit C).

The Assessment indicated that, in certain portions of the development, there were modest to moderate levels of potential glare at surrounding roads and residential receivers from daytime glare. Specifically, Sub-Array 1 yielded no potential glare at all surrounding road and residential receivers. Sub-Arrays 3, 4, 5, 6 and 7 yield modest to moderate levels of potential glare at surrounding roads, but no glare for all residential receivers. Sub-Array 2 yields potential glare for both surrounding roads and for seven residential receivers.

The report assessed and provided mitigation to address the potential flare at surrounding roads and residential receivers by proposing to adjust the rest angle curtailment – employing rest angles of 5° and 10° (**Mitigation Measure** [**MM] G&G-1**). The solar tracking system Rest Angle (often used in the context of backtracking) is the specified tilt angle a solar tracker assumes when it is not operating in maximum sun-tracking mode, particularly during early morning and late afternoon. Utilizing a Rest Angle of 5° totally eliminated all potential glare for all residential receivers, reduced potential glare on Howard Road, and reduced potential glare on Needham Road (from PV Sub-Array 2). Utilizing a Rest Angle of 10° totally eliminated potential glare for all residential receivers and totally eliminated potential glare on Howard Road and Needham Road. Therefore, implementation of **MM G&G-1** was able to eliminate all instances of potential daytime glare.

Regarding night-time illumination glare, the report indicates that if night-time lighting is incorporated into the Project, the following mitigation, **MM G&G-2**, will be required to ensure no potential for future nuisance glare. **MM G&G-2** requires the Project applicant to: 1)set a goal of limiting light spill to no more than 1 lux falling on the nearby residential facades during night-time curfew hours (10:00pm-7:00am); combined with 2) following the general light spill minimization design principles found in standard 150-2017 of the International Commission on Illumination (CIE 150-2017).

Therefore, with the implementation of the proposed mitigation measures from the Glint and Glare Assessment, prepared by SLR International Corporation, impacts from substantial light or glare would be less than significant.

Mitigation Measures:

MM G&G 1: The Applicant shall employ a Rest Angle of 5° and 10° to eliminate all instances of potential glare. The Applicant shall utilize a Rest Angle of 5° to eliminate all glare potential for PV

Sub-Array 3, 5 and 6, and shall utilize a Rest Angle of 10° to eliminate all glare potential for PV Sub-Array 2 and 7, as described below:

- Sub-Array 2 – Rest Angle of 10 degrees only required in the afternoon (start of September to end of March)
- Sub-Array 3 – Rest Angle of 5 degrees only required in the afternoon (start of November to end of January)
- Sub-Array 5 – Rest Angle of 5 degrees only required in the afternoon (start of October to end of February)
- Sub-Array 6 – Rest Angle of 5 degrees only required in the afternoon (start of October to end of February)
- Sub-Array 7 – Rest Angle of 10 degrees only required in the afternoon (start of September to end of March)

MM G&G 2: The Applicant shall adopt the following, if night-time lighting is incorporated into the Project, in order for there to not be any potential for future nuisance glare: 1)Setting a goal of limiting light spill to no more than 1 lux falling on the nearby residential facades during night-time curfew hours; combined with 2) Following the general light spill minimization design principles found in standard 150- 2017 of the International Commission on Illumination (CIE 150-2017).

6. Conclusion

This VIA Memorandum demonstrates that, with mitigation **MM G&G-1 and MM G&G-2**, the Project will result in less-than-significant impacts on light and glare. Vegetative buffers will substantially reduce visibility within the visual study area. While overall visual contrast will vary depending on viewing distance and context, landscaping will effectively minimize panel visibility and integrate the facility into its surroundings. As a result, the Project will maintain consistency with scenic resource protection goals in the County's General Plan and avoid adverse visual impacts.

Sources:

California Department of Transportation (Caltrans). 2023. *Visual Impact Assessment (VIA) Handbook*. Sacramento, California.

California Department of Transportation (Caltrans). 2023. *Visual Impact Assessment (VIA) Handbook*. Sacramento, California. Appendix A, Identifying Scenic Resources, of the Caltrans Visual Impact Assessment Handbook.

California Department of Transportation. *California Scenic Highway Program* and Officially Designated State Scenic Highway List.

California Department of Transportation. Project Development Procedures Manual (PDPM). Sacramento, California.

California Department of Transportation (Caltrans). 2023 (Revised August 31, 2023). *Visual Impact Assessment (VIA) Memorandum Template – Scenic Resource Evaluation Annotated Outline*. Sacramento, California.

California Environmental Quality Act (CEQA). California Public Resources Code §21000 et seq.

County of Stanislaus. (2016). Stanislaus County General Plan (Land Use, Circulation, Conservation/Open-Space, Noise, Safety, Housing Element, and Agricultural Element). Stanislaus County Department of Planning & Community Development, Modesto, CA. Adopted August 23, 2016

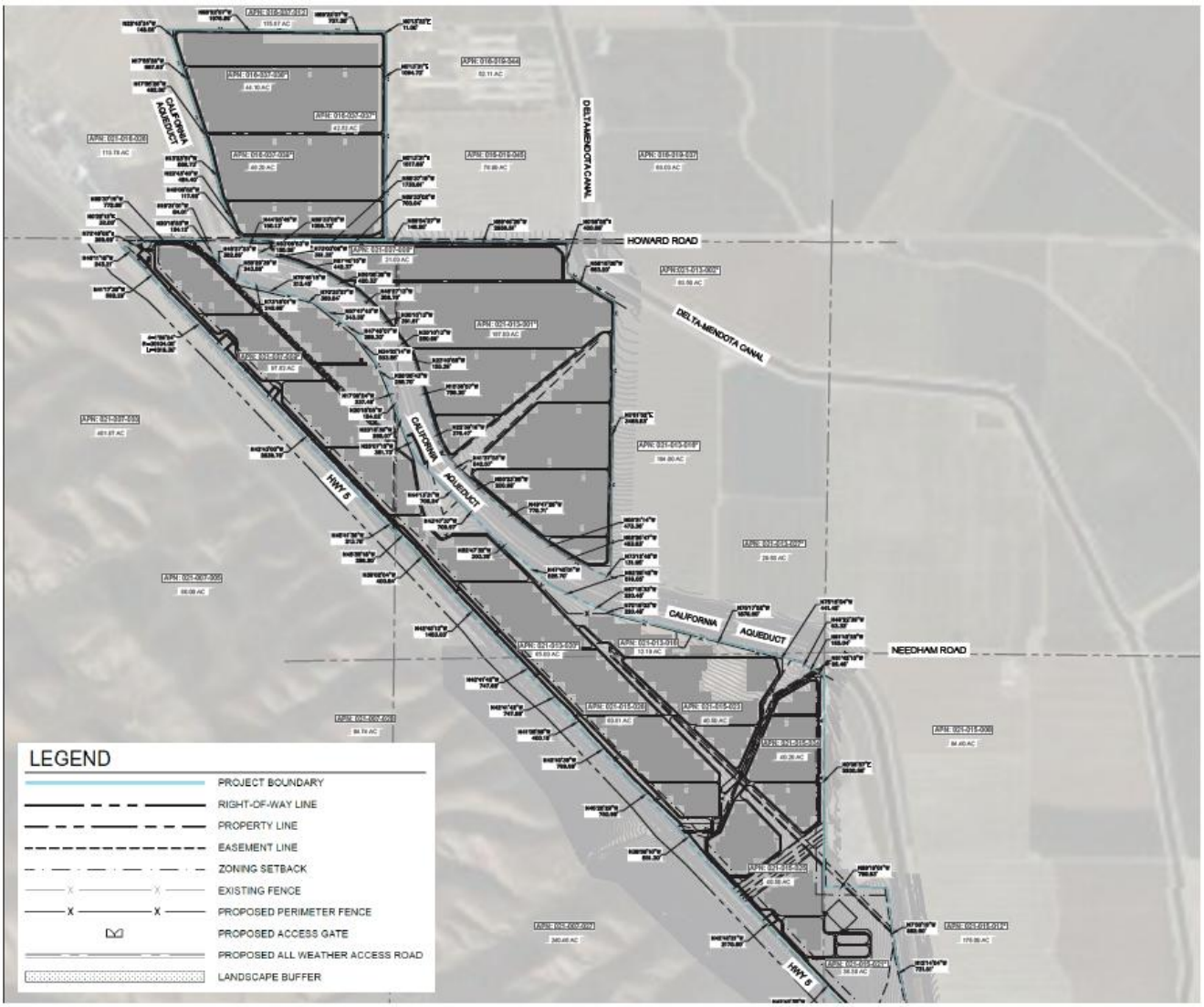
Federal Highway Administration (FHWA). 2015. *Guidelines for the Visual Impact Assessment of Highway Projects*. U.S. Department of Transportation, Washington, D.C.

Griffith, G.E., Omernik, J.M., Smith, D.W., Cook, T.D., Tallyn, E., Moseley, K., and Johnson, C.B., 2016, Ecoregions of California (poster): U.S. Geological Survey Open-File Report 2016–1021, with map, scale 1:1,100,000, http://dx.doi.org/10.3133/ofr20161021.

Stanislaus County Solar Farm, Glint and Glare Assessment, Prepared by SLR International Corporation. October 14, 2026

Exhibit A

Proposed Site Plan



Source: Mid Valley Power, 2026

Exhibit B

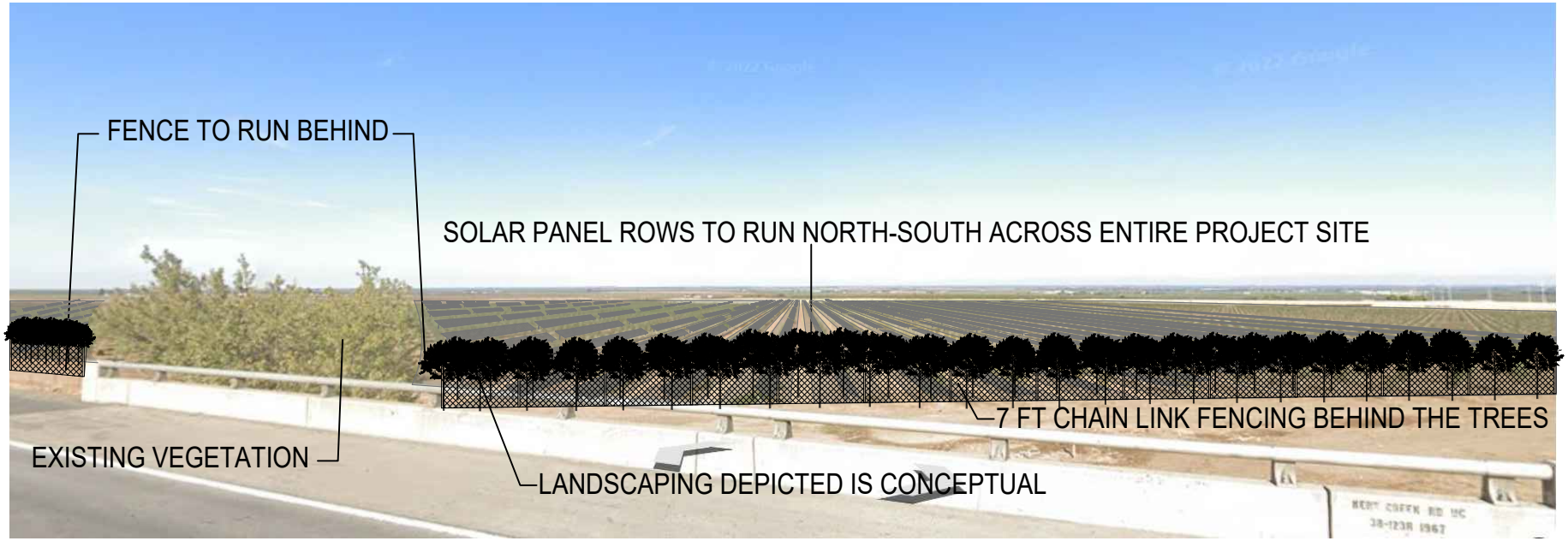
Photo simulations from representative vantage points

LOCATION A - FACING NORTHEAST FROM HIGHWAY 1-5 AT KERN CANYON

EXISTING SITE CONDITIONS (VIA GOOGLE EARTH IMAGERY)



PROPOSED SITE CONDITIONS - SOLAR PANEL ARRAYS, CHAIN LINK FENCE, VEGETATIVE SCREENING



LOCATION B - SOUTH OF HOWARD ROAD

EXISTING SITE CONDITIONS (VIA GOOGLE EARTH IMAGERY)



PROPOSED SITE CONDITIONS - SOLAR PANEL ARRAYS, CHAIN LINK FENCE, VEGETATIVE SCREENING

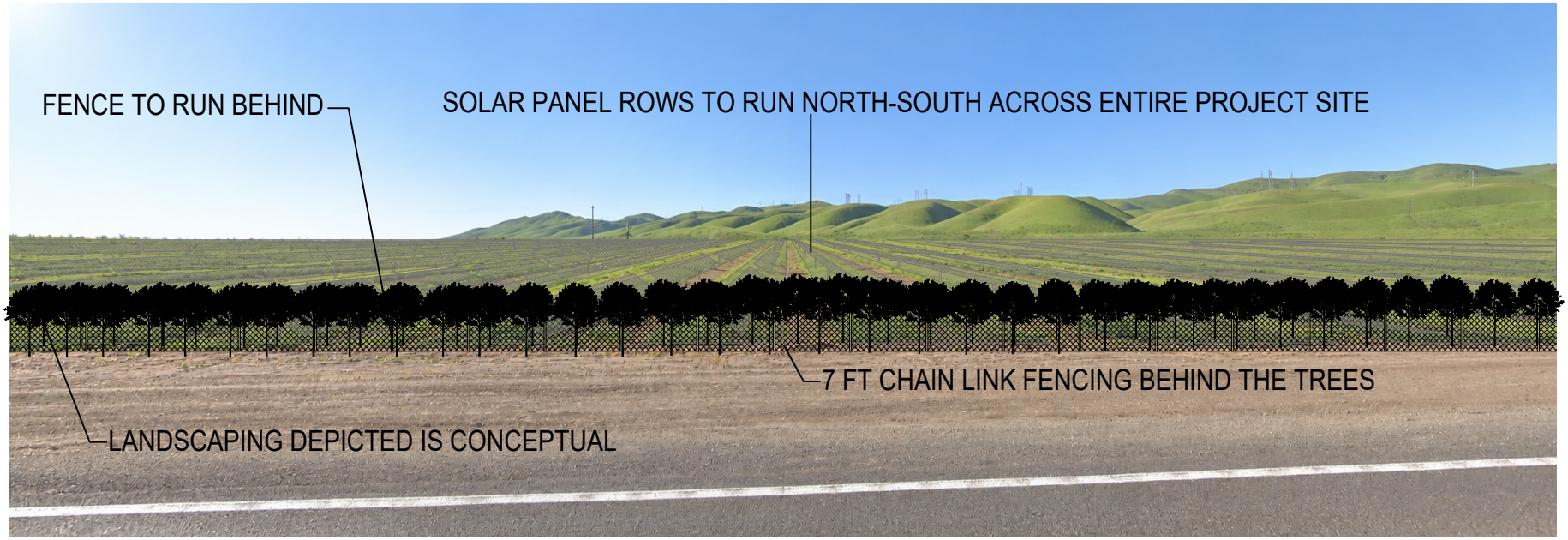


Exhibit C

Proposed Sub-Arrays locations

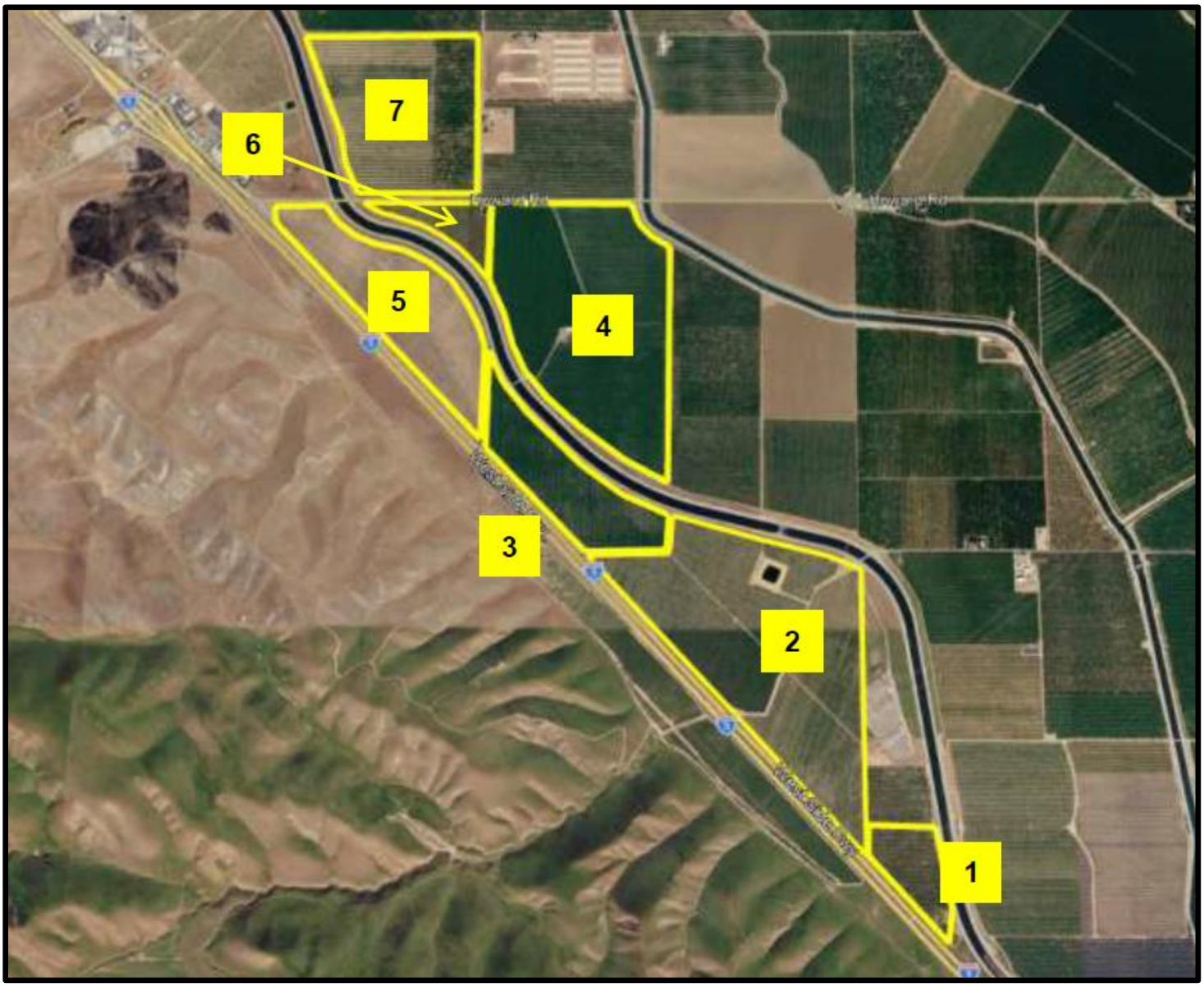


Exhibit D

Existing Adjacent Residents



TECHNICAL MEMORANDUM

To:	Tyler Ott, Mid Valley Power
From:	Sophia LaHerran, Kimley-Horn and Associates, Inc. Ciara Anderson, Kimley-Horn and Associates, Inc.
Date:	November 5, 2026
Subject:	Hondeville Energy Center (HEC) Project – Energy Technical Memorandum

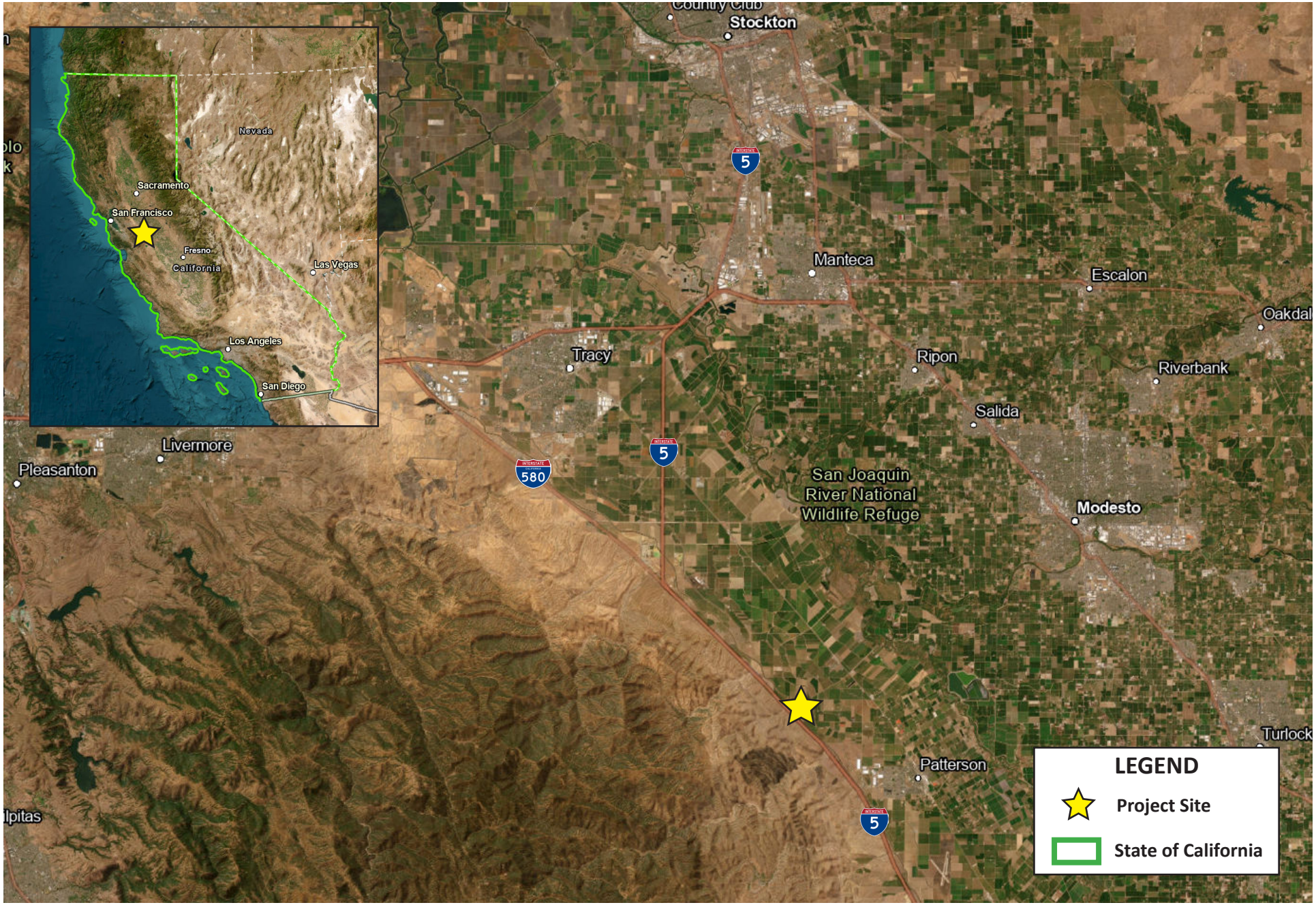
PURPOSE

The purpose of this memorandum is to evaluate potential construction and operational energy consumption impacts of the Hondeville Energy Center Project (Project), located in unincorporated Stanislaus County (County), California.

PROJECT LOCATION

The Hondeville Energy Center Project (Project) site is located near the community of Westley, in unincorporated Stanislaus County (County), California, at 3348 Howard Road. The Project site is broken into three primary areas consisting of the southern portion, central portion and northern portion. The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east. See **Figure 1: Regional Vicinity Map** and **Figure 2: Local Vicinity Map**. The Project site is primarily surrounded by rural, agricultural land.

The approximately 738.62-acre Project site would be comprised of 13 Accessor Parcel Numbers (APNs): 021-015-021, 021-015-025, 021-015-024, 021-015-026, 021-015-023, 021-013-018, 021-013-020, 021-013-001, 021-007-008, 021-0007-009, 016-037-038, 016-037-039, and 016-037-037.



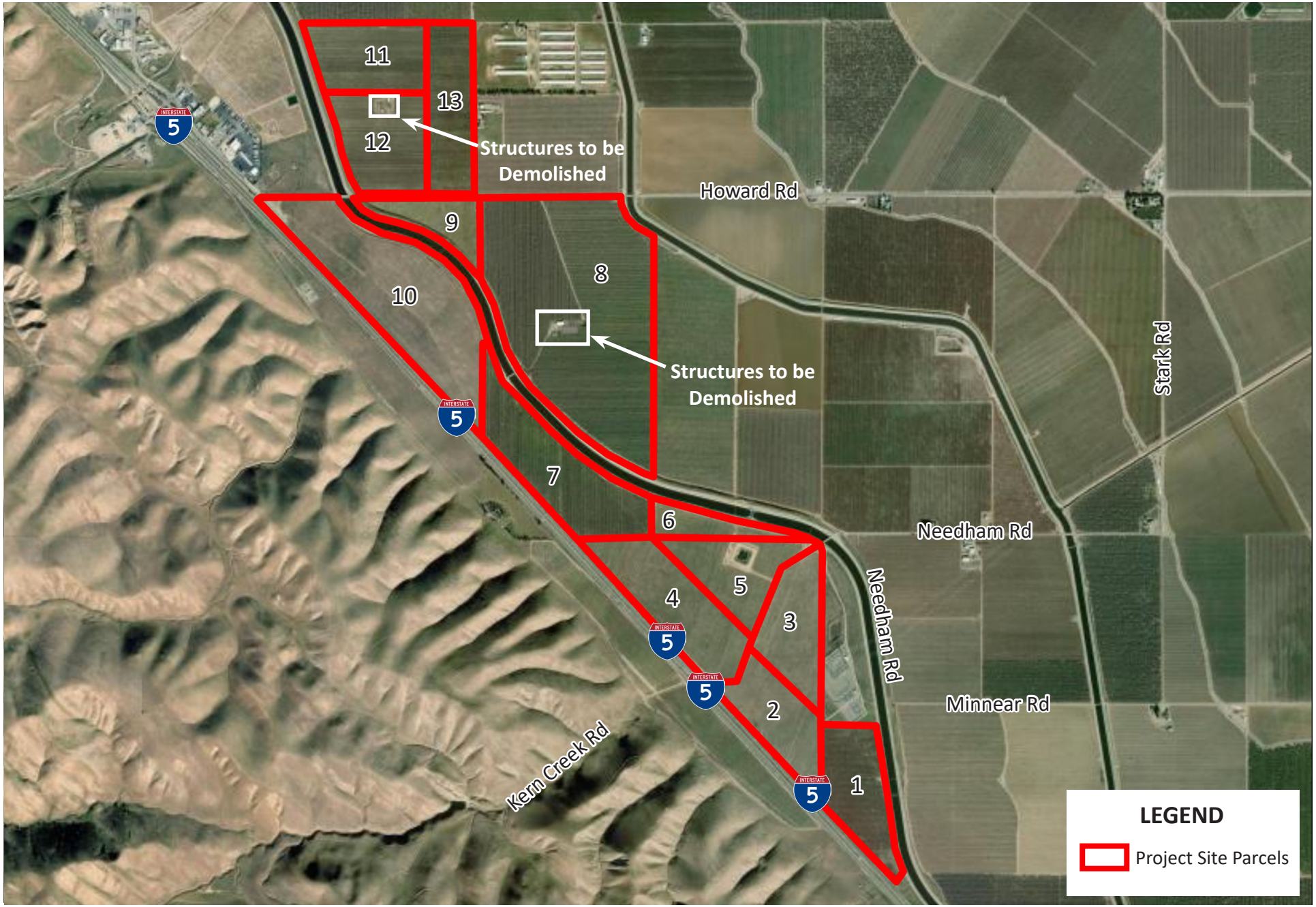
Source: ESRI 2025

Figure 1: Regional Vicinity Map

Hondeville Energy Center Project

Not to scale

Kimley»Horn



Source: ArcGIS Pro, 2026

Figure 2: Local Vicinity Map

Hondeville Energy Center Project

Not to scale

Kimley»Horn

PROJECT DESCRIPTION

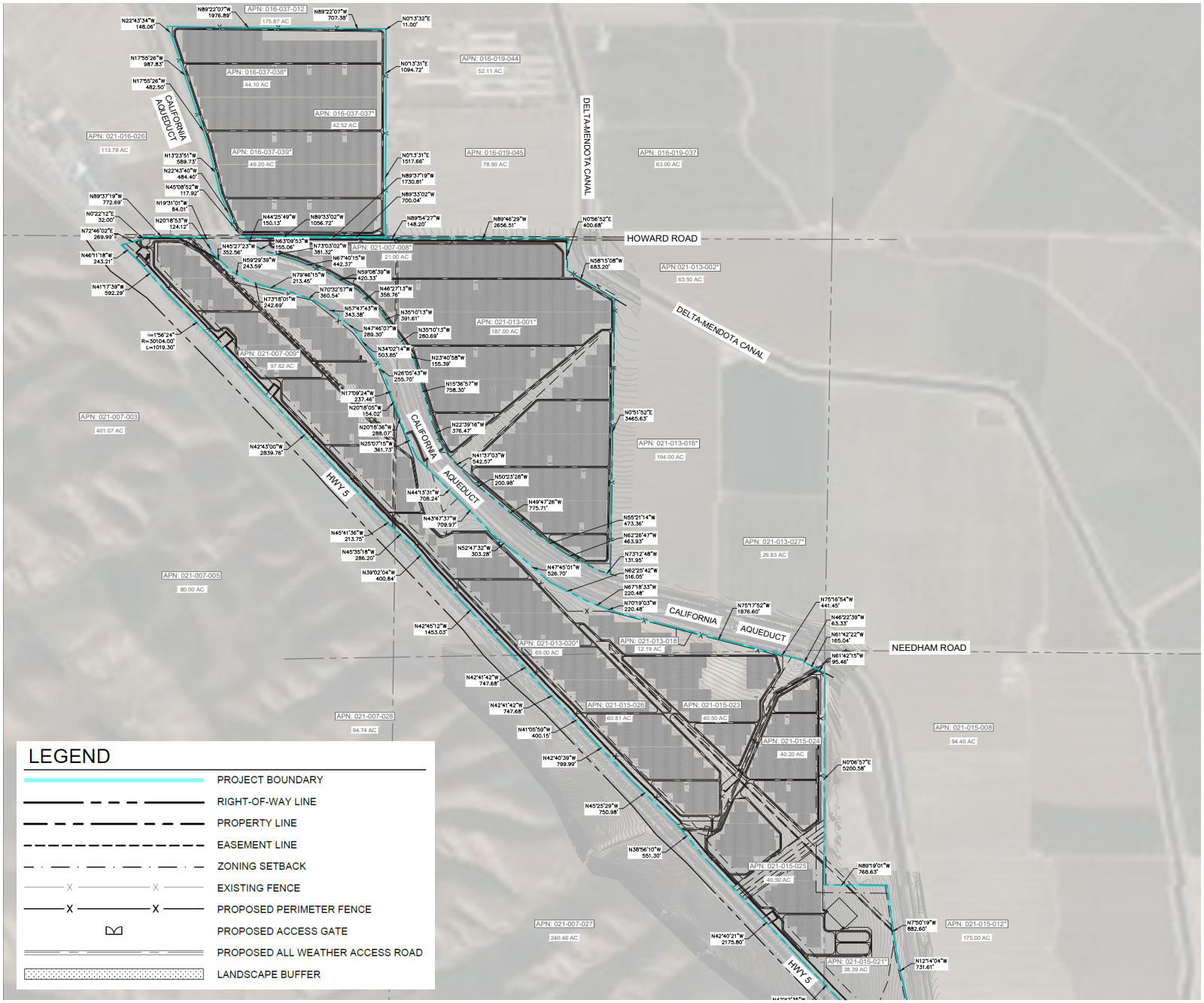
Development of the Project would include the demolition of the existing structures on two parcels, and the development of a utility-scale solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility; see **Figure 3: Conceptual Site Plan**.

The single-axis tracking solar PV electricity generation (solar panel) component of the Project would be sized to produce 130 megawatt alternating current (MWac). The Project would also construct two 34.5 kilovolt (kV) overhead lines in a single crossing location across the California Aqueduct to interconnect the southern and central portions of the Project site and one or two 34.5 kV underground high voltage distribution lines in a single crossing location across Howard Road to interconnect the central and northern portions of the Project site.

The BESS component of the Project would be comprised of lithium-ion battery modules housed in racks and housed within non-walk-in outdoor enclosures (BESS containers) on the southernmost portion of the Project Site. The BESS containers would be built in a factory setting and transported to the site and installed on dedicated foundations. The initial BESS installation would include approximately 67 BESS containers and would be capable of charging and discharging up to 160 megawatts alternating current (MWac)/320 megawatt-hours (MWh). Lithium-ion BESS systems generally degrade at a rate of 2 to 3 percent per year. In order to maintain the initial BESS capacity over the Project life, new BESS containers will be added every 5 years to the Project. While the nameplate BESS system size will increase over time to account for BESS losses, the BESS will never charge or discharge more than 130 MWac over the Project life.

A 250 gallon per minute (GPM) or greater agricultural water well with approximately 20,000 to 30,000-gallon capacity onsite water storage tank(s) will be installed near the BESS location for fire protection. A 50-kW standby generator would act as a backup power supply to the Project communications and control house in the substation. Additionally, a 250-kW backup generator would be provided to run the existing on-site agricultural well for fire/water supply. The generator would be Tier 4 emissions rated. A 100-gallon diesel fuel above-ground storage tank would be included as part of the Project's BESS facilities to meet fire safe requirements of having reliable backup power for water supplies.

A 34.5 kilovolt (kV) to 115kV Project substation would be constructed to connect the solar PV and BESS Project to the existing adjacent Turlock Irrigation District 115kV Westley substation. The Project substation will include two 34.5kV to 115kV transformers in addition to 34.5kV and 115kV breakers and other high voltage equipment. A control center enclosure will also be located in the substation area.



Source: Mid Valley Power, 2026

Figure 3: Conceptual Site Plan

Hondeville Energy Center Project

Not to scale

Kimley»Horn

CONSTRUCTION

Project construction activities generally fall into three main categories: (1) site preparation and demolition; (2) grading; and (3) construction/installation. Project pre-construction site activities would include demolition of the existing structures on the Project site and removal of crops and vegetation. Project construction is expected to commence as one phase over an 18-month period beginning in May 2027 and completing in October 2028. The primary site access point and laydown yard during construction for all circulation and parking will be off Howard Road for all portions of the Project site.

Approximately 120 cubic yards of soil would be exported to Kettleman Hills Facility as part of a Soil Management Plan. The remainder of the earthwork (approximately 219,880 cubic yards) would be balanced on-site. It is anticipated that non-potable or onsite surface or ground water would be required for common construction-related purposes included but not limited to dust suppression, soil compaction, and grading. Water during construction will be drawn from the on-site agricultural water wells or surface water pumps.

The on-site construction workforce is estimated to peak at approximately 100 individuals; however, the average daily workforce of on-site construction, supervisory, support, and construction management personnel on-site is expected to be between approximately 5 and 25 individuals. Construction would primarily occur during daylight hours between 7:00 a.m. and 6:59 p.m. pursuant to the County's noise standards provided in Chapter 10.46, as required to meet the construction schedule. Any construction work performed outside of the normal work schedule would be subject to pre-approval by the County.

EXISTING SITE CONDITIONS

The existing uses on the Project site include active agricultural operations with no physical structures other than a modular home, agricultural structure, small solar array, small structure/mobile home, and outdoor vehicle/equipment storage area. The Stanislaus County General Plan 2015 (General Plan) designates all 13 parcels as Agriculture, and the County's Zoning Ordinance zoned the parcels as General Agriculture – 40 acres. While much of the surrounding land is rural, agricultural land, a single-family home is located 100 feet to the east, and a truck stop is located approximately 540 feet to the north. The truck stop includes a gas station, various commercial/retail uses, and a hotel approximately 1,818 feet to the west of the Project site.

ENVIRONMENTAL SETTING

Electricity as a utility is a man-made resource. The production of electricity requires the consumption or conversion of resources, including water, wind, oil, gas, coal, solar, geothermal, and nuclear resources, into energy. The delivery of electricity requires several system components including substations and transformers that lower transmission line power (voltage) to a level appropriate for distribution and use. The electricity generated is distributed through a network of transmission and

distribution lines commonly called a power grid. Conveyance of electricity through transmission lines is typically responsive to market demands.

Energy capacity, or electrical power, is generally measured in watts (W) while energy use is measured in watt-hours (Wh). For example, if a light bulb has a capacity rating of 100 W, the energy required to keep the bulb on for 1 hour would be 100 Wh. If ten 100 W bulbs were on for 1 hour, the energy required would be 1,000 Wh or 1 kilowatt-hour (kWh). On a utility-scale, a generator's capacity is typically rated in MW, which is one million watts, while energy use is measured in megawatt-hours (MWh) or gigawatt-hours (GWh), which is one billion Wh.

Energy usage is typically quantified using the British Thermal Unit (BTU). The BTU is a unit of heat and is defined as the amount of heat required to raise one pound-mass of water by one degree Fahrenheit and heat is known to be equivalent to energy. Total energy usage in California was 6,816.7 trillion BTUs in 2023 (the most recent year for which this specific data is available).[1] Of California's total energy usage, the breakdown by sector is approximately 45 percent transportation, 21 percent industrial, 17 percent commercial, and 17 percent residential.[2] Electricity and natural gas in California are generally consumed by stationary users such as residences, commercial, and industrial facilities, whereas petroleum consumption is generally accounted for by transportation-related energy use. In 2025, taxable gasoline sales (including aviation gasoline) in California accounted for 13,318,149,611 gallons of gasoline.[3] The electricity consumption attributable to the County from 2015 to 2024 is shown in **Table 1: Historical Electricity Consumption in Stanislaus County**. As indicated in **Table 1**, energy consumption in the County has generally increased between 2015 and 2024.

Table 1: Historical Electricity Consumption in Stanislaus County

Year	Electricity Consumption (GWh)
2015	4,706
2016	4,697
2017	4,799
2018	4,729
2019	4,675
2020	4,961
2021	5,093
2022	5,152
2023	4,994
2024	5,200

Source: California Energy Commission, *Electricity Consumption Dashboard*, https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-0, accessed September 24, 2026.

[1] U.S. Energy Information Administration, *Table F35: Total Energy Consumption, Price, and Expenditure Estimates, 2023,* https://www.eia.gov/state/seds/sep_fuel/html/fuel_te.html, accessed September 24, 2026.

[2] Ibid.

[3] California Department of Tax and Fee Administration, *Motor Vehicle Fuel 10 Year Reports*, https://www.cdtfa.ca.gov/taxes-and-fees/spftrpts.htm, accessed September 24, 2026.

Automotive fuel consumption in the County from 2016 to 2025 is shown in **Table 2: Historical Automotive Fuel Consumption in Stanislaus County**. As shown in **Table 2**, gasoline consumption in the County generally increased from 2016 to 2019, decreased in 2020, increased in 2021, and generally decreased from 2021 onward. Diesel fuel consumption in the County generally increased from 2016 to 2021, decreased in 2022, and generally increased from 2023 onward.

Table 2: Historical Automobile Fuel Consumption in Stanislaus County

Year	Gasoline Fuel Consumption (Gallons)	Diesel Fuel Consumption (Gallons)
2016	204,732,906	63,615,333
2017	211,234,249	65,586,124
2018	212,172,223	64,765,800
2019	213,809,593	65,488,487
2020	176,483,309	72,307,027
2021	198,531,023	76,998,728
2022	195,626,960	60,933,515
2023	195,817,908	61,520,691
2024	190,359,021	78,698,721
2025	185,973,270	78,474,989

Source: California Air Resources Board, EMFAC2025.

REGULATORY FRAMEWORK

The following is a description of Federal, State, and local environmental laws and policies related to energy consumption that are relevant to the proposed Project.

Federal

Energy Independence and Security Act of 2007

The Energy Independence and Security Act (EISA; Public Law 110-140) was signed into law by former President George W. Bush on December 19, 2007. The purpose of the EISA is to achieve energy security in the United States by increasing renewable fuel production, improving energy efficiency and performance, protecting consumers, improving vehicle fuel economy, and promoting research on GHG capture and storage. Under the EISA, the Renewable Fuel Standard (RFS) program (RFS2) was expanded in several key ways:

- Expanded the RFS program to include diesel, in addition to gasoline;
- Increased the volume of renewable fuel required to be blended into transportation fuel;
- Established new categories of renewable fuel and set separate volume requirements for each; and

- Required the U.S. Environmental Protection Agency (USEPA) to apply lifecycle GHG performance threshold standards to ensure that each category of renewable fuel emits fewer GHGs than the petroleum fuel it replaces.

RFS2 lays the foundation for achieving significant reductions of GHG emissions from the use of renewable fuels, reducing imported petroleum, and encouraging the development and expansion of our nation's renewable fuels sector.

The EISA also includes a variety of new standards for lighting and for residential and commercial appliance equipment. The equipment includes residential refrigerators, freezers, refrigerator-freezers, metal halide lamps, and commercial walk-in coolers and freezers.

On April 9, 2025, President Trump signed an executive order calling for the sunset of various environmental regulations. The order affects pieces of several keystone energy and environmental legislation, including the EISA of 2007.

State

Renewable Portfolio Standard

In 2002, California established its Renewable Portfolio Standard program with the goal of increasing the annual percentage of renewable energy in the state's electricity mix by the equivalent of at least 1 percent of sales, with an aggregate total of 20 percent by 2017. The California Public Utilities Commission subsequently accelerated that goal to 2010 for retail sellers of electricity (Public Utilities Code Section 399.15(b)(1)). Then-Governor Schwarzenegger signed Executive Order S-14-08 in 2008, increasing the target to 33 percent renewable energy by 2020. In September 2009, then-Governor Schwarzenegger continued California's commitment to the Renewable Portfolio Standard by signing Executive Order S-21-09, which directs the California Air Resources Board under its AB 32 authority to enact regulations to help the State meet its Renewable Portfolio Standard goal of 33 percent renewable energy by 2020. In September 2010, the California Air Resources Board adopted its Renewable Electricity Standard regulations, which require all of the State's load-serving entities to meet this target. In October 2015, then-Governor Brown signed into legislation Senate Bill (SB) 350, which requires retail sellers and publicly owned utilities to procure 50 percent of their electricity from eligible renewable energy resources by 2030. Signed in 2018, SB 100 revised the goal of the program to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030.

SB 100 established a further goal to have an electric grid that is entirely powered by clean energy by 2045. Under SB 100, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target. Approved in 2022, SB 1020 revised the State policy to provide that eligible renewable energy resources and zero-carbon resources supply 90 percent of all retail sales of electricity to California end-use customers by December 31, 2035; 95 percent of all retail sales of electricity to California end-use customers by

December 31, 2040; 100 percent of all retail sales of electricity to California end-use customers by December 31, 2045; and, 100 percent of electricity procured to serve all State agencies by December 31, 2035.

Senate Bill 350 (SB 350)

The Clean Energy and Pollution Reduction Act (SB 350) established clean energy, clean air, and greenhouse gas (GHG) reduction goals, including reducing GHG to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050. This objective will increase the use of RPS eligible resources, including solar, wind, biomass, geothermal, and others to achieve 50 percent by 2030.

SB 350 also requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help meet these goals and reduce GHG emissions, large utilities will be required to develop and submit integrated resource plans. These plans detail how utilities will meet their customers' resource needs, reduce GHG emissions, and ramp up the use of clean energy resources.

SB 350 also transforms the California Independent System Operator, a nonprofit public corporation, into a regional organization, contingent upon approval from the Legislature. The bill also authorizes utilities to undertake transportation electrification.

California Public Utilities Commission Energy Efficiency Strategic Plan

The California Public Utilities Commission (CPUC) prepared an Energy Efficiency Strategic Plan in 2011 with the goal of promoting energy efficiency and a reduction in greenhouse gases. Assembly Bill 1109, adopted in 2007, also serves as a framework for lighting efficiency. This bill requires the State Energy Resources Conservation and Development Commission to adopt minimum energy efficiency standards as a means to reduce average Statewide electrical energy consumption by not less than 50 percent from the 2007 levels for indoor residential lighting and not less than 25 percent from the 2007 levels for indoor commercial and outdoor lighting by 2018. According to the Energy Efficiency Strategic Plan, lighting comprises approximately one-fourth of California's electricity use while non-residential sector exterior lighting (parking lot, area, walkway, and security lighting) usage comprises 1.4 percent of California's total electricity use, much of which occurs during limited occupancy periods.

California Energy Commission Integrated Energy Policy Report

In 2002, the State legislature adopted SB 1389, which requires the CEC to develop an Integrated Energy Policy Report (IEPR) every two years. SB 1389 requires the CEC to conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand, and prices, and use these assessments and forecasts to develop energy policies that conserve resources, protect the environment, ensure energy reliability, enhance the State's economy, and protect public health and safety.

The CEC adopted the *2021 Integrated Energy Policy Report* (2021 IEPR) Volume I, II, and IV in February 2022, and Volume III in March 2022. The 2021 IEPR provides the results of the CEC's assessments of a variety of energy issues facing California, many of which will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining reliability and controlling costs. The year of 2021 was unprecedented as the State continues to face the impacts and repercussions of challenging events, including the continued effects of the COVID-19 pandemic, extreme summer weather, and drought conditions. In addition to these events, the 2021 IEPR covers a broad range of topics, including building decarbonization, energy efficiency, challenges with decarbonizing California's gas system, quantifying the benefits of the Clean Transportation Program, and the California Energy Demand Forecast. Overall, the 2021 IEPR identifies actions the State and others can take that would strengthen energy resiliency, reduce GHG emissions that cause climate change, improve air quality, and contribute to a more equitable future.

California Health and Safety Code (HSC), Division 25.5/California Global Warming Solutions Act of 2006

In 2006, the California State Legislature adopted AB 32 (codified in the California HSC, Division 25.5 – California Global Warming Solutions Act of 2006), which focuses on reducing GHG emissions in California to 1990 levels by 2020. Under HSC Division 25.5, CARB has the primary responsibility for reducing the State's GHG emissions; however, AB 32 also tasked the CEC and the CPUC with providing information, analysis, and recommendations to CARB regarding strategies to reduce GHG emissions in the energy sector.

In 2016, SB 32 and its companion bill AB 197 amended HSC Division 25.5, established a new climate pollution reduction target of 40 percent below 1990 levels by 2030, and included provisions to ensure that the benefits of state climate policies reach into disadvantaged communities.

California Air Resources Board Scoping Plan

Adopted December 15, 2022, CARB's 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. To achieve the targets of AB 1279, the 2022 Scoping Plan relies on existing and emerging fossil fuel alternatives and clean technologies, as well as carbon capture and storage. Specifically, the 2022 Scoping Plan focuses on zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high global warming potential (GWP); providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen.

The key elements of the 2022 CARB Scoping Plan focus on transportation. Specifically, the 2022 Scoping Plan aims to rapidly move towards ZE transportation (i.e., electrifying cars, buses, trains, and trucks), which constitutes California's single largest source of GHGs. The regulations that impact the

transportation sector are adopted and enforced by CARB on vehicle manufacturers and are outside the jurisdiction and control of local governments. The 2022 Scoping Plan accelerates development of new regulations as well as amendments to strengthen regulations and programs already in place.

Low Carbon Fuel Standard

The Low Carbon Fuel Standard (LCFS), established in 2007 through Executive Order S-1-07 and administered by CARB, requires producers of petroleum-based fuels to reduce the carbon intensity of their products, starting with 0.25 percent in 2011 and culminating in a 10-percent total reduction in 2020. Petroleum importers, refiners and wholesalers can either develop their own low carbon fuel products or buy LCFS credits from other companies that develop and sell low carbon alternative fuels, such as biofuels, electricity, natural gas and hydrogen.

Local

Stanislaus County General Plan

The County's General Plan, adopted on August 23, 2016, serves as a set of plans and tools for the County's unincorporated communities and complements the Countywide vision. The General Plan consists of the Land Use, Circulation, Conservation/Open Space, Noise, Safety, Housing, and Agricultural Elements, which guide development in the region. The following goals and policies from various elements addressing energy production and usage are applicable to the Project:

Chapter 1. Land Use Element

Goal 6: Promote and protect healthy living environments.

Policy 29 Support the development of a built environment that is responsive to decreasing air and water pollution, reducing the consumption of natural resources and energy, increasing the reliability of local water supplies, and reduces vehicle miles traveled by facilitating alternative modes of transportation, and promoting active living (integration of physical activities, such as biking and walking, into everyday routines) opportunities.

Chapter 3. Conservation/Open Space Element

Goal 6: Improve air quality.

Policy 21 The County will support efforts to increase public awareness of air quality problems and solutions.

Goal 11: Conserve resources through promotion of waste reduction, reuse, recycling, composting, ride-sharing programs, and alternative energy sources such as mini-hydroelectric plants, gas and oil exploration, and transformation facilities such as waste-to-energy plants.

Policy 30 The County shall provide zoning mechanisms for locating material recovery facilities, recycling facilities, composting facilities, and new energy producers when the proposed location does not conflict with surrounding land uses.

Policy 31 New construction by the County shall meet or exceed code requirements for energy conservation.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) THRESHOLDS

In accordance with Appendix G of the CEQA Guidelines, the Project would have a significant impact with regard to energy if one or more of the following would occur:

Threshold a): Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation (refer to Impact EN-1); or

Threshold b): Conflict with or obstruct a State or local plan for renewable energy or energy efficiency (refer to Impact EN-2).

CEQA Guidelines Appendix F is an advisory document that assists environmental document preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy. The analysis in Threshold (a) relies upon CEQA Guidelines Appendix F, which includes the following criteria to determine whether this threshold of significance is met:

- **Criterion 1**: The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction, operation, maintenance and/or removal. If appropriate, the energy intensiveness of materials may be discussed.
- **Criterion 2**: The effects of the project on local and regional energy supplies and on requirements for additional capacity.
- **Criterion 3**: The effects of the project on peak and base period demands for electricity and other forms of energy.
- **Criterion 4**: The degree to which the project complies with existing energy standards.
- **Criterion 5**: The effects of the project on energy resources.
- **Criterion 6**: The project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.

The discussion on the Project's energy usage addresses Criterion 1. The discussion on construction-related energy use focuses on Criteria 2, 4, and 5. The discussion on operational energy use is divided into transportation energy demand and building energy demand; the transportation energy demand analysis discusses Criteria 2, 4, and 6, while the operational energy demand and generation analysis discusses Criteria 2, 3, 4, and 5.

IMPACT ANALYSIS

Impact EN-1 Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?

Construction

The analysis of construction energy consumption is based on the California Emissions Estimator Model (CalEEMod) version 2022.1 results included as a part of the *Air Quality and Greenhouse Gas Analysis* prepared for the Project by Elevated Entitlements (2026). The Project's estimated construction energy consumption is based primarily on CalEEMod default settings for the Project area and County-wide consumption factors provided from EMFAC2025 and the CEC. The results of the construction energy consumption modeling are included in **Appendix A: Energy Data**. The estimated construction fuel consumption is based on the Project's construction equipment list timing/phasing, and hours of duration for construction equipment, as well as vendor, hauling, and construction worker trips. Energy consumption associated with the proposed Project construction is summarized in **Table 3: Project Construction and Countywide Energy Consumption**.

Table 3: Project Construction and Countywide Energy Consumption

Energy Type	Project Annual Energy Consumption	Stanislaus County Annual Energy Consumption	Percentage Increase Countywide
Electricity Consumption—Water[1]	3,239 kWh	5,200,264 kWh	<0.0001%
Fuel Consumption—Diesel[2]	81,241 gallons	77,960,066 gallons	0.1042%
Fuel Consumption—Gasoline[2]	16,402 gallons	176,582,519 gallons	0.0093%

Notes:

1. The anticipated Project construction electricity consumption is compared with the total consumption in Stanislaus County in 2024 from the California Energy Commission, available at: https://www.energy.ca.gov/files/energy-consumption-data-files.
2. The anticipated Project construction automotive fuel consumption is compared with the Countywide fuel consumption (projected) in 2027 (start of construction) from the California Air Resources Board EMFAC2025 model.

Refer to **Appendix A: Energy Data** for assumptions used in this analysis.

During construction, the Project would consume energy in three general forms: (1) the fuel consumed by construction vehicles and equipment; (2) electricity associated with the conveyance of water used for dust control; and (3) bound energy in construction materials, such as asphalt, steel, concrete, and pipes. It should be noted that Project construction activities would not consume natural gas.

Project construction is anticipated to be completed over a period of up to approximately 18 months. Thus, energy consumed during Project construction would be temporary and would not represent a significant demand on energy resources.

Construction Electricity Demand

During construction of the Project, electricity would be consumed to supply and convey water for dust control. As shown in **Table 3**, a total of approximately 3,239 kWh of electricity is anticipated to be consumed during Project construction. Electricity consumed during construction would result in a

nominal increase in energy use in the County; refer to **Table 3**. The electricity demand at any given time would vary throughout the construction period based on the construction activities being performed and would cease upon completion of construction. As such, the demand for electricity during construction would not be considered wasteful, inefficient, or unnecessary.

Construction Transportation Energy Demand

Fossil fuels such as gasoline and diesel would be consumed during Project construction. Fuel consumed by construction equipment would be the primary energy resource expended over the course of construction. Vehicle miles traveled (VMT) associated with transportation of construction materials and construction worker commutes would also result in fuel consumption. Heavy-duty construction equipment associated with construction activities would primarily rely on diesel fuel. It is conservatively assumed that construction workers would travel to and from the Project site throughout construction in gasoline-powered vehicles.

As shown in **Table 3**, a total of 16,402 gallons of gasoline and 81,241 gallons of diesel is estimated to be consumed during Project construction. This constitutes 0.0093 percent of the County's typical annual gasoline consumption and 0.1042 percent of the County's typical annual diesel consumption. However, this fuel consumption would be short-term and finite, only being consumed over the course of the 18-month construction period. Additionally, some incidental energy conservation would occur during construction through compliance with State requirements and through USEPA and CARB engine emissions standards. These engine emissions standards require the use of more efficient engines in vehicles and equipment to encourage fuel efficiencies and reduce fuel consumption. Further, idling time of vehicles and equipment will be minimized to limit the amount of fuel consumption while no work is being completed. Therefore, Project construction activities would comply with existing energy standards with regard to transportation fuel consumption. As such, the demand for petroleum-based fuel during construction would not be considered wasteful, inefficient, or unnecessary.

Construction Material Energy Demand

The Project-related incremental increase in the use of energy bound in construction materials such as metal, concrete, and manufactured or processed materials would not substantially increase demand for energy compared to overall local and regional demand for construction materials. Additionally, it is noted that there are no unusual Project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in the region or State. Therefore, construction fuel consumption would not be any more inefficient, wasteful, or unnecessary than other similar projects of this nature. Further, energy consumed to construct a renewable energy project to reduce the State's GHG emissions from energy would not be considered wasteful, inefficient, or unnecessary. As such, the Project would have a less than significant impact as it relates to material energy demand.

Construction Conclusion

As summarized above, energy consumed during construction would result in a nominal increase (less than 0.2 percent) in energy use in the County; refer to **Table 3**. As such, Project construction would have a minimal effect on the local and regional energy supplies. It is noted that construction energy use is temporary and would cease upon completion of construction activities. There are no unusual Project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or State. Therefore, construction energy consumption would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature. A less than significant impact would occur in this regard.

Operations

During Project operations, energy would be consumed for multiple purposes, including, but not limited to, panel washing and maintenance, BESS HVAC units and lighting, generator maintenance and testing, and worker vehicles. The analysis of operational energy consumption is based in part on the CalEEMod version 2022.1 results included as a part of the *Air Quality and Greenhouse Gas Analysis* prepared for the Project by Elevated Entitlements (2026). The Project's estimated operational energy consumption is based primarily on CalEEMod default settings for the Project area and County-wide consumption factors provided from EMFAC2025 and the CEC. The results of the modeled operational energy consumption are included in **Appendix A: Energy Data**.

Energy consumption associated with the proposed Project operations is summarized in **Table 4: Project Operational and Countywide Electricity Consumption**.

Table 4: Project Operational and Countywide Electricity Consumption

Energy Type	Project Annual Energy Consumption	Stanislaus County Annual Energy Consumption	Percentage Increase Countywide
Electricity Consumption—Water[1]	14,183 kWh	5,200,264 kWh	0.0003%
Fuel Consumption—Generator (Diesel)[2]	665 gallons	77,742,813 gallons	0.0009%
Fuel Consumption—Mobile (Gasoline)[2]	157 gallons	173,195,257 gallons	<0.0001%

Notes:

1. The Project operational demand for electricity consumption is compared with the total consumption in Stanislaus County in 2024 from the California Energy Commission, available at: https://www.energy.ca.gov/files/energy-consumption-data-files.
2. The Project operational increases in fuel consumption are compared with the Countywide fuel consumption (projected) in 2028 (start of operations) from the California Air Resources Board EMFAC2025 model.

Refer to **Appendix A: Energy Data** for assumptions used in this analysis.

During operations, the Project would consume energy in three general forms: (1) electricity associated with the conveyance of water; (2) fuel consumed in the maintenance and testing of emergency generators; and (3) the fuel consumed by employees traveling to the Project site. It should be noted that Project operational activities would not consume natural gas.

Operational Energy Demand and Generation

During Project operation, the electricity usage for HVAC units, communications equipment, lighting, and other typical operations and maintenance activities would be minimal and would be sufficiently offset by electricity produced by the Project. Additionally, the Project is anticipated to consume electricity to supply and convey water. The water used is anticipated to be supplied by pumping groundwater from on-site agricultural water wells.

As shown in **Table 4**, the Project's operational electricity consumption would constitute a 0.0003 percent increase in the County's typical annual electricity consumption. The Project would not require additional energy capacity or supplies. Additionally, as a power-generating facility with solar PV and energy storage, the Project would generate energy that could ease stress on intensive peak or base period electricity demands. Furthermore, the Project would generate a significantly higher amount of energy than it will consume.

Additionally, the Project is currently anticipated to generate approximately 130 MWac. Thus, the Project would have a net positive impact on electricity consumption within the County and region. The Project would provide the County and the State with additional renewable energy sources. The increase in reliance of renewable energy resources further ensures that new development projects would not result in the waste of the finite energy resources. Therefore, the Project would not cause wasteful, inefficient, and unnecessary consumption of electrical energy during Project operation, or preempt future energy development or future energy conservation. As such, the Project would have a less than significant impact as it relates to energy demand and generation.

Operational Transportation and Fuel Energy Demand

Operation of the facility will be done remotely, and two to four employees are expected to visit the Project site for routine maintenance on the solar PV and BESS facilities in addition to washing of PV panels up to four times per year for two weeks at a time. As shown in **Table 4**, employee travel to and from the site would result in a nominal increase in the County's expected gasoline demand. The Project would not require additional energy capacity or supplies.

The proposed backup generators would operate during staff training and equipment maintenance/testing and would not operate on a constant basis. The 50-kW and 250-kW backup generators would operate for up to 50 hours per year each. As shown in **Table 4**, the Project's annual backup generator fuel consumption would constitute a 0.0009 percent increase in projected Countywide diesel consumption. Additionally, the Project does not propose any unusual features that would result in excessive long-term operational fuel consumption. Consequently, the proposed Project would not result in a substantial demand for energy that would require expanded supplies or the construction of other infrastructure or expansion of existing facilities. Therefore, Project operations would not result in wasteful, inefficient, or unnecessary fuel consumption. As such, the Project would have a less than significant impact as it relates to transportation and fuel energy demand.

Operational Conclusion

As shown in **Table 4** and discussed above, the Project's operational energy consumption would result in a nominal increase in energy use in the County. Additionally, the Project would not result in a substantial increase in demand for transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure. Lastly, the Project would provide additional renewable energy sources; thus, the Project would not result in the inefficient, wasteful, or unnecessary consumption of energy during operation.

Decommissioning Related Energy Consumption

At the end of the Project's operational term, the Applicant may determine that the Project site should be decommissioned and deconstructed, or it may seek to extend the Project. However, due to the lack of available in-depth details on decommissioning at this time, as a worst-scenario analysis, it was assumed that the decommissioning phase would utilize the same amount of energy as the construction phase. As discussed above, impacts related to construction-related energy consumption would be less than significant. As such, energy impacts during Project decommissioning would be less than significant.

Impact Determination: Less Than Significant Impact.

Mitigation Measures: No mitigation is required.

Impact EN-2 Would the Project conflict with or obstruct a State or Local plan for renewable energy or energy efficiency?

The County currently does not have a plan dedicated to renewable energy or energy efficiency. Nonetheless, the County General Plan identifies several goals and policies to pursue energy conservation and alternative energy development within the County. Specifically, the Project would contribute to reducing the consumption of natural resources by generating electricity without primarily consuming fossil fuels and produce more electricity than the Project would consume in accordance with Land Use Policy 29. The Project would serve as a new producer of alternative energy, as promoted by Conservation/Open Space Goal 11 and Policy 30.

The applicable State plans and policies for renewable energy and energy efficiency include the SB 350 and SB 100. As discussed under Impact EN-1 above, the Project would provide the County and the State with additional renewable energy sources that would assist the State in complying with the Renewable Portfolio Standard. Therefore, the Project is supportive of the State's goals and would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency, and impacts would be less than significant.

Impact Determination: Less Than Significant Impact.

Mitigation Measures: No mitigation is required.

Cumulative Impacts

Energy use and consumption is a largely cumulative impact. Many consumers drawing energy from a single power source can raise the base load on the power grid and exacerbate existing issues with peak energy uses. Additionally, the use of fuels for combustion in an inefficient, wasteful, and unsustainable manner can cause stress on existing networks. Based on these considerations, project-level thresholds of significance for energy use are relevant in the determination of whether the Project's individual energy consumption would have a cumulatively significant impact on energy in the region.

As described above, the Project would not result in a significant impact related to inefficient, wasteful, or unnecessary consumption of energy resources. Each cumulative project would be required to maintain compliance with State requirements and through USEPA and CARB engine emissions standards. Compliance with these measures would increase efficiencies of equipment and vehicles and reduce fuel consumption. Further, the Project would offset energy consumption from non-renewable fossil fuels to a renewable source. As such, the Project's contribution to cumulative impacts associated with inefficient, wasteful, or unnecessary use of energy resources would not be substantial.

The Project is supportive of the State's goals as well as State and local plans for renewable energy and energy efficiency. Each similar cumulative project should also comply with all State and local plans, particularly SB 350 and SB 100, and the County General Plan. These plans provide guidelines and goals for reducing energy waste and increasing renewable energy resources in the State and County. The Project would also offset energy consumption from non-renewable fossil fuels to a renewable source. As this Project does not obstruct or conflict with State or Local plans, the Project's contribution to cumulative impacts associated with conflicting or obstructing State and Local plans would not be substantial.

REFERENCES

1. California Department of Tax and Fee Administration, *April 2022 – Motor Vehicle Fuel 10 Year Reports*, https://www.cdtfa.ca.gov/taxes-and-fees/spftrpts.htm, accessed September 24, 2026.
2. California Energy Commission, *Electricity Consumption Dashboard*, https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-0, accessed September 24, 2026.
3. Elevated Entitlements, *Air Quality and Greenhouse Gas Analysis for Hondeville Energy Center (HEC) Project*, 2026.
4. U.S. Energy Information Administration, *Table F35: Total Energy Consumption, Price, and Expenditure Estimates, 2023,* https://www.eia.gov/state/seds/sep_fuel/html/fuel_te.html, accessed September 24, 2026.

Appendix A

Energy Data

Construction Fuel

Fuel Type	$MTCO_2e$	Gallons of Fuel	Stanislaus County Gallons of Fuel Use (2027)[1]	% Consumption
Off-Site Diesel	9	854	77,960,066	0.0011%
On-Site Diesel	816	80,387	77,960,066	0.1031%
Total Diesel	825	81,241	77,960,066	0.1042%
Total Gasoline	145	16,402	176,582,519	0.0093%

Fuel Calculations

On-site Diesel[2]	$MTCO_2e$	Gallons of Fuel[5]
Demolition	8	768
Site Preparation	55	5,464
Grading	393	38,759
Construction	350	34,527
Pole Installation	9	868
Total	816	80,387

Off-site Diesel[3]	$MTCO_2e$	Gallons of Fuel[5]
Demolition	6	543
Site Preparation	0	0
Grading	3	311
Construction	0	0
Pole Installation	0	0
Total	9	854

Off-site Gasoline[4]	$MTCO_2e$	Gallons of Fuel[5]
Demolition	0	28
Site Preparation	1	152
Grading	9	989
Construction	133	15,126
Pole Installation	1	107
Total	145	16,402

$MTCO_2e$ by Construction Phase and Year[6]

On-site Diesel (Off-Road Construction Equipment)

Construction Phase	Demolition	Site Preparation	Grading	Construction	Pole Installation
2027	7.8	55.5	393.4	13.5	6.1
2028	0.0	0.0	0.0	337.0	2.8
Total	8	55	393	350	9

Off-Site Diesel (Haul/Vendor Trips)

Construction Phase	Demolition	Site Preparation	Grading	Construction	Pole Installation
2027	5.5	0.0	3.2	0.0	0.0
2028	0.0	0.0	0.0	0.0	0.0
Total	6	0	3	0	0

Off-Site Gasoline (Worker Trips)

Construction Phase	Demolition	Site Preparation	Grading	Construction	Pole Installation
2027	0.2	1.3	8.7	5.2	0.7
2028	0.0	0.0	0.0	128.0	0.3
Total	0	1	9	133	1

NOTES:

1. The projected Stanislaus County fuel use in 2027 (start of construction).
Source: California Air Resources Board, EMFAC2025, Emissions Inventory, 2026.
Source Link: https://arb.ca.gov/emfac/emissions-inventory/37fbfd00824146fe1170180724bb5477b2c14039
2. Fuel used for on-site off-road construction equipment assumed to be diesel.
3. Fuel used for off-site on-road haul and vendor trips assumed to be diesel.
4. Fuel used for off-site on-road worker trips assumed to be gasoline.
5. For the conversion ratios see Conversion Ratios: Climate Registry, General Reporting Protocol, Chapter 13, Page 94, 2016.
6. $MTCO_2e$ rates per CalEEMod (3.0 Construction Emissions Details).

Construction Water Electricity

Daily Soil Disturbance[1]	4	acres/day
Days of Soil Disturbance[2]	154	days
Water Concentration[3]	3,020	gallons/acre
Total Water Consumption	1,860,320.00	gallons
	1.86	million gallons
Water Energy Intensity[4]	1,741	kWh/million gallons
Water Energy	3,239	kWh
	0.0032	GWh
Stanislaus County Electricity Consumption (2024)[5]	5,200	GWh
% Consumption	0.00006%	

NOTES:

1. Total daily acres disturbed from off-road equipment per CalEEMod (3.0 Construction Emissions Detail) and maximum SCAQMD LST values for soil-disturbing equipment.
2. Number of days of construction with soil disturbing equipment per CalEEMod (5.1 Construction Schedule).
3. Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual (1992).
4. Water energy intensity factor per CalEEMod User Guide, Appendix G, Tab G-32 for the supply, distribution, and treatment of water within the San Joaquin River Hydrologic Region.
5. Stanislaus County electricity consumption in 2024 (most recent data available).

Source: California Energy Commission, Electricity Consumption, 2026.

Source Link: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-0.

Operational Water Electricity

Indoor Water Electricity	0	kWh/year
Outdoor Water Electricity	14,183	kWh/year
Total Water Electricity	14,183	kWh/year
	0.014	GWh/year
Stanislaus County Electricity Consumption (2024)[1]	5,200	GWh/year
% Consumption	0.00027%	

Indoor Water Electricity

Water Consumption	0.00	gallons/year
	0.00	million gallons/year
Energy Intensity Factor[2]	3,260	kWh/million gallon
Electricity Consumption	0	kWh/year

Outdoor Water Electricity

Water Consumption	8,146,286	gallons/year
	8.15	million gallons/year
Energy Intensity Factor[3]	1,741	kWh/million gallon
Electricity Consumption	14,183	kWh/year

Water Consumption by Land Use[4]

Land Use	Indoor (gallon/year)	Outdoor (gallon/year)
User Defined Industrial	0	8,146,286
Total	0	8,146,286

NOTES:

1. Stanislaus County electricity consumption in 2024 (most recent data available).
Source: California Energy Commission, Electricity Consumption, 2026.
Source Link: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-0.
2. Indoor water energy intensity factor per CalEEMod User Guide, Appendix G, Tab G-32 for supply, treatment, distribution, and wastewater within the San Joaquin Hydrologic Region.
3. Outdoor water energy intensity factor per CalEEMod User Guide, Appendix G, Tab G-32 for supply, treatment, and distribution within the San Joaquin Hydrologic Region.
4. Operational water consumption per CalEEMod (5.12 Operational Water and Wastewater Consumption).

Operational Fuel - Mobile

Vehicle Type	Fuel Type	Percent[1]	Annual VMT	MPG[2]	Annual Fuel Use (Gallons)	Stanislaus County Gallons of Fuel Use (2028)[3]	% Consumption
Passenger Cars	Gas	100.00%	3,390	21.6	157	173,195,257	0.00009%

VMT by Land Use[4]

Land Use	Annual VMT
User-Defined Industrial	3,390
Total	3,390

NOTES:

1. Assuming all employee trips would be passenger vehicles (gasoline).
2. Average fuel economy derived from Department of Transportation.
3. The projected Stanislaus County fuel use in 2028 (first year of operations)

Source: California Air Resources Board, EMFAC2025, Emissions Inventory, 2026.

Source Link: https://arb.ca.gov/emfac/emissions-inventory/37fbfd00824146fe1170180724bb5477b2c14039

4. Annual VMT per CalEEMod (5.9 Operational Mobile Sources).

Operational Fuel - Generators

Equipment	Operating Hours/Year	Diesel Consumption (Gallon/Hour)[1]	Annual Diesel Consumption (Gallons)	Stanislaus County Gallons of Fuel Use (2028)[2]	Percentage Increase
Backup Generator (50 kW)	50	4.3	215	77,742,813	0.000277%
Backup Generator (250 - 300 kW)	50	9.0	450	77,742,813	0.000579%
Total Diesel (Generators)	-	-	665	77,742,813	0.000855%

Notes:

1. Fuel consumption values from the *Air Quality and Greenhouse Gas Analysis* prepared for the Project (Elevated Entitlements, 2026).
2. The projected Stanislaus County fuel use in 2028 (first year of operations).

Source: California Air Resources Board, EMFAC2025, Emissions Inventory, 2026.

Source Link: https://arb.ca.gov/emfac/emissions-inventory/37fbfd00824146fe1170180724bb5477b2c14039.

Phase I Environmental Site Assessment

Hondeville Energy Center

3348, 3731, 3735, and 3739 Howard Road

Patterson, Stanislaus County, California

October 6, 2026 | Project Number: 1000062160

Prepared for:
Mid Valley Power
3111 Stone Avenue
Modesto, California

Terracon

Nationwide
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- Environmental
- Geotechnical
- Materials

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October 6, 2026

Mid Valley Power
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Attn: Mr. Tyler Ott
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E: tyler@midvalleypower.com

Re: Phase I Environmental Site Assessment
Hondeville Energy Center
3348, 3731, 3735, and 3739 Howard Road
Patterson, Stanislaus County, California 95363
Terracon Project No. 1000062160

Dear Mr. Ott:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the "site"). This assessment was performed in accordance with our Terracon Proposal No. PNB257189, dated November 5, 2025, and Change Order No. 3, dated September 11, 2026.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide other environmental, geotechnical, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,
Terracon Consultants, Inc.

Audra Bastress
Assistant Scientist

Joe Rosenbery, P.G. 9420
Environmental Dept. Manager

Carl A. Parten
Senior Principal

Attachments

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APPENDIX A Exhibit 1: Topographic Map

Exhibit 2: Site Diagram

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APPENDIX B Photographs

APPENDIX C Historical Documentation and User Questionnaire

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Executive Summary

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our Terracon Proposal No. PNB257189, dated November 5, 2025, and Change Order No. 3, dated September 11, 2026, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify Recognized Environmental Conditions (RECs) in connection with the site as reflected by the scope of this report. The ESA was conducted under the supervision or responsible charge of Carl A. Parten, Environmental Professional. Audra Bastress performed the site reconnaissance on September 28, 2026.

Findings and Opinions

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site is located at 3348, 3731, 3735, and 3739 Howard Road in Patterson, Stanislaus County, California and of three non-contiguous parcels of land totaling approximately 738.62 acres and identified by Assessor Parcel Numbers (APNs) 016037037, 016037038, 016037039, 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021. The site is improved with cherry, apricot, and almond orchards, an irrigation pond and reservoir, and a farmstead consisting of one approximately 1,200-square foot (SF) single-family one-story residence, one approximately 2,500-SF single-family one-story residence, one approximately 850-SF vacant one-story residence, a 4,200-SF maintenance garage and pesticide storage building, a shed, and a solar farm. During the site reconnaissance, the site was occupied by TSK Properties, Inc., Jon E and Tamara Maring Family Partnership, TCA Properties, Inc., PANA Farms LLC, and NAPA Farms LLC and operated as a single-family residence and an agricultural orchard of cherries, apricots, and almonds.

Historical Information

Based on a review of the historical information, the site consisted of undeveloped land as early as the mid-1910s until the improvement of Howard Road, utilization of dry farming, and was depicted with a pipeline by the early 1950s. The site was developed with an irrigation pond along Howard Road by the mid-1950s, and was developed with the existing Interstate-5 along the western and southern boundaries and concrete-lined California Aqueduct transecting the central portion of the site and utilized for row crops and orchards by the mid-1960s. By the late 1960s, the site was depicted with multiple pipelines transecting the site. The site was developed with the existing single-family residence, storage shed, and garage in the mid-

2000s, and developed with the existing solar farm in the late 2010s and the existing irrigation reservoir in the early 2020s. According to historical city directories and records reviewed with local agencies, site tenants have included Virginia Chen, Sidney & Stanley Gnesa, Jamison Ranch LLC, Stark Ranch LLC, LAT Farming Trust, TSK Properties, Inc., Jon E and Tamara Maring Family Partnership, John and Tamara Maring Family Partnership, TCA Properties, Inc., PANA Farms LLC, and NAPA Farms LLC.

The adjoining properties consisted of undeveloped land as early as the mid-1910s, were utilized with row crops and dry farming by the early 1950s, and were developed with the existing concrete-lined California Aqueduct by the mid-1960s. The northern adjoining properties were developed with an apparent pumping station in the early 1920s. The pumping station was no longer apparent and the western portion of the property was graded by the early 1970s. The northern adjoining property was developed with the existing irrigation pond by the mid-2000s and was utilized with orchards by the early 2020s through the present. The northeastern adjoining properties were developed with the existing concrete-lined Delta Mendota Canal by the early 1950s and were developed with two apparent dwellings and utilized with orchards by the mid-1960s. The northeastern adjoining properties were further developed with multiple structures by the late 1990s through the present. The eastern adjoining properties were developed with two apparent dwellings as early as the mid-1910s until utilized with row crops and orchards in the early 1950s. The apparent dwellings were no longer present by the late 1960s, and the southern portion was graded and developed with a utility substation by the late 1990s through the present. The southern and western adjoining properties were developed with the existing Interstate-5 in the mid-1960s. The adjoining properties have remained relatively unchanged through the present. Based on a review of the historical information, RECs were not identified in connection with the site.

The site was utilized for orchards from at least 1967 through the present, which may have included the storage and use of herbicides and pesticides. In addition, multiple areas of chemical storage and mixing were observed on portions of the site. In Terracon's experience, the application of pesticides to orchards can leave trace amounts of the compounds in the soil that may accumulate overtime due to long-term applications. Based on the long-term use of the site for agricultural purposes and the storage of pesticides and herbicides noted during Terracon's site observations, the site's long-term orchard use (~59 years) represents a REC to the site.

Previous Reports

In February 2026, Terracon Consultants, Inc. (Terracon) prepared a previous Phase I Environmental Site Assessment (ESA) for APNs 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021. At the time of Terracon's site reconnaissance, the site was improved with cherry, apricot, and almond orchards, an irrigation reservoir, and a farmstead consisting of one approximately 2,500-square-foot (SF) single-family one-story residence, one approximately 850-SF vacant one-story residence, a garage, a shed, and a solar farm. During Terracon's prior site reconnaissance, two irrigation pumps with sand filtration systems, seven herbicide above-

ground storage tanks (ASTs), a solar farm, one approximately 8,000-gallon water AST, one approximately 250-gallon diesel AST (absent secondary containment), one approximately 250-gallon gasoline AST (absent secondary containment), ten 55-gallon and nine 5-gallon containers of hydraulic fluid, six 5-gallon containers of pesticide, over 100 2.5-gallon containers of herbicide activator, two septic tanks, pipeline markers for three crude oil and two natural gas pipelines, six pole-mounted transformers, approximately 20 feet by 20 feet stained soil adjacent to diesel AST, three irrigation water wells, one domestic water well, one 3,000 SF pond, and one approximately 200 by 200 SF irrigation reservoir were observed. Terracon identified the following RECs:

- **Aboveground Storage Tanks:** Based on visual observations and absence of secondary containment, the 250-gallon diesel AST with associated staining and 250-gallon gasoline AST represents a REC in connection with the site.
- **Agricultural Operations:** The site was utilized for orchards from at least 1963 through to the present, which have included the storage and use of herbicides and pesticides. Based on the long-term use of the site for agricultural purposes and the storage and mixing of pesticides noted during Terracon's site observations, the site's long-term orchard uses represents a REC to the site.

Terracon notes that the previously observed 250-gallon gasoline AST contains diesel, not gasoline. Terracon also notes that according to the client, one of the 6,000-gallon ASTs located on the central portion of the site reportedly contains fertilizer; however, the 2025 *Phase I ESA* stated that the 6,000-gallon AST contained herbicide. Based on a review of Terracon's previous Phase I ESA, the absence of secondary containment surrounding the two 250-gallon red diesel ASTs, moderate to heavy staining on soil surrounding the 250-gallon diesel AST located east of the vacant residence, and long-term orchard use represent RECs to the site. Additionally, the absence of secondary containment surrounding the temporary mobile 1,000-gallon diesel AST, moderate to heavy staining on soil surrounding the 6,000-gallon fertilizer AST which reportedly previously contained herbicide located on the central portion of the site, and the moderate to heavy staining on soil throughout the pesticide storage building represents a REC to the site.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The site, identified as Central Valley Growers, LLC – Howard III, State of California – DWR Delta Field Division, and Pipeline Segment T-301-14 Hydrostatic Test, is listed on the Sites in GeoTracker (GEOTRACKER), Generators from Hazardous Waste Manifest Data (HAZ GEN), and Facility Registry Service/Facility Index (FINDS/FRS) databases. According to the GEOTRACKER listing, the site is listed as a historical cannabis program site in 2021. Violations associated with the on-site cannabis program were not identified. According to the HAZ GEN listing, the facility had generated hazardous waste streams consisting of asbestos-containing waste in 2014. Based on the FINDS/FRS listing, the site is identified for a hydrostatic test for the western adjoining natural gas pipeline. Based on the nature of the pipeline (natural gas), regulatory status, and absence of reported incidents,

releases, or violations, Central Valley Growers, LLC – Howard III, State of California – DWR Delta Field Division, and Pipeline Segment T-301-14 Hydrostatic Test do not represent a REC to the site.

Based on a review of the National Pipeline Mapping System (NPMS) Public Viewer website, a crude oil pipeline for Crimson Pipeline L.P. transects the northern to the southern portion of the site. One natural gas transmission pipeline for Pacific Gas & Electric (PG&E) adjoins the western portion of the site along Interstate-5. Additionally, two crude oil pipelines, one for Phillips 66 Pipeline LLC and one for Crimson Pipeline L.P., are located to the west of the site along Interstate-5. Reported incidents or releases were not identified in connection with the pipelines. Additionally, Terracon reviewed the Department of Toxic Substances Control (DTSC) online database EnviroStor and the State Water Resource Control Board (SWRCB) online database GeoTracker, and the site and pipelines were not identified. Based on the absence of regulatory release listings associated with the pipelines, such as Leaking Underground Storage Tank (LUST) or Spills, Leaks, Investigation, and Cleanup (SLIC), the pipelines do not represent a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Site Reconnaissance

During the site reconnaissance, Terracon observed two irrigation pumps, a sand filtration system, a solar farm, two empty approximately 250-gallon above-ground storage tanks (ASTs) and one empty approximately 2,400-gallon AST, two approximately 250-gallon ASTs containing red diesel, one approximately 300-gallon temporary mobile AST containing fertilizer, two approximately 1,000-gallon ASTs containing water and fertilizer, one approximately 1,000-gallon temporary mobile AST containing diesel, one approximately 1,500-gallon AST and one approximately 2,000-gallon AST containing sulfuric acid, two approximately 2,500-gallon ASTs containing fertilizer, one approximately 4,000-gallon water AST, one approximately 6,000-gallon fertilizer AST, one approximately 6,000-gallon fertilizer AST which reportedly previously contained herbicide, one 1-gallon and three 5-gallon containers of oil, two 55-gallon and nine 5-gallon containers of hydraulic fluid, one 25-gallon container of diesel, over 16 2.5-gallon containers of pesticides, and over 100 2.5-gallon containers of herbicides, several empty 5-gallon containers, 30-gallon drums, 55-gallon drums, and 275-gallon totes, one 55-gallon diesel AST, three septic tanks, a pipeline marker for a natural gas pipeline, 11 pole-mounted transformers, staining on soil, six stockpiles consisting of wood, dirt, and irrigation pipes, four irrigation water wells, two domestic water wells, one approximately 3,000 SF irrigation pond, and one approximately 200 by 200 SF irrigation reservoir.

Based on the long-term agricultural operations, the storage and handling of pesticides and herbicides at the site represents a REC to the site. In addition, the potential for a release to the subsurface associated with the absence of secondary containment around the 250-gallon red diesel and 1,000-gallon diesel ASTs, observed moderate to heavy staining on soil surrounding

the 250-gallon red diesel AST located east of the vacant residence and the 6,000-gallon fertilizer AST which reportedly previously contained herbicide located on the central portion of the site, and moderate to heavy staining on soil throughout the pesticide storage building represents a REC to the site.

Adjoining Properties

The northern adjoining property consists of orchards and vacant land (no assigned address). The northeastern adjoining property consists of a single-family residence (3565 Howard Road) and multiple agricultural buildings and orchards (3261, 3553, 3575, and 3579 Howard Road). The eastern adjoining property consists of orchards and Utility Substation (3396 Needham Road). The southern and western adjoining properties consist of Interstate-5. RECs were not observed with the adjoining properties.

Significant Data Gaps

No Significant Data Gaps (SDGs) were identified.

Additional Services

Per the agreed scope of services, additional services as outlined in the proposal, including items described in Section 13.0 (Non-Scope Considerations) of ASTM E1527-21, were not conducted.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at 3348, 3731, 3735, and 3739 Howard Road, Patterson, Stanislaus County, California, identified as APNs 016037037, 016037038, 016037039, 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021, the site. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. The following RECs were identified in connection with the site:

- **Aboveground Storage Tanks and Staining On Soil:** Based on the absence of secondary containment surrounding the two 250-gallon red diesel and temporary mobile 1,000-gallon diesel ASTs, observed moderate to heavy staining on soil surrounding the 250-gallon red diesel AST located east of the vacant residence and the 6,000-gallon fertilizer AST which reportedly previously contained herbicide located on the central portion of the site, and moderate to heavy staining on soil throughout the pesticide storage building, the potential for a release to the subsurface represents a REC to the site.
- **On-Site Agricultural Operations:** The site was utilized for orchards from at least 1967 through to the present, which have included the storage and use of herbicides and pesticides. Based on the long-term use of the site for agricultural purposes and the storage of pesticides and herbicides noted during Terracon's site observations, the site's long-term orchard use (~59 years) represents a REC to the site.

Controlled RECs (CRECs) and/or SDGs were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon recommends the following additional actions:

- **Additional Investigation:** Terracon recommends conducting additional investigation to evaluate subsurface conditions associated with the identified RECs.
- **Soil Management Plan:** Terracon recommends the preparation of a Soil Management Plan (SMP) prior to future development and earth work.

1.0 Introduction

1.1 Site Description

Site Name	Hondeville Energy Center
Site Location/Address	3348, 3731, 3735, and 3739 Howard Road, Patterson, Stanislaus County, California
Parcel Number	Assessor Parcel Numbers (APNs) 016037038, 016037039, 016037037, 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021.
Land Area	Three Non-Contiguous Parcels - Approximately 738.62 acres.
Site Improvements	The site is improved with cherry, apricot, and almond orchards, an irrigation pond and reservoir, and a farmstead consisting of one approximately 1,200-square foot (SF) single-family one-story residence, one approximately 2,500-SF single-family one-story residence, one approximately 850-SF vacant one-story residence, a 4,200-SF maintenance garage and pesticide storage building, a shed, and a solar farm.
Anticipated Future Site Use	Solar and energy storage facility.
Reason for the ESA	Acquiring the site.

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the United States Geologic Survey (USGS) 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A.

1.2 Scope of Services

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our Terracon Proposal No. PNB257189, dated November 5, 2025, and Change Order No. 3, dated September 11, 2026, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the site as reflected by the scope of this report. RECs are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." A *de minimis* condition is not a REC.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

Review of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

PFAS are a family of compounds which are considered emerging contaminants of concern due to their mobility and longevity in the environment. PFAS has been used in many products, including but not limited to fire-fighting foam, anti-stick coatings, stain and water-repellent coatings, electroplating, and paper products, among others. On July 8, 2024, the U.S. Environmental Protection Agency (USEPA) designated two PFAS compounds, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), including their salts and structural isomers, as hazardous substances under CERCLA; accordingly, PFOA and PFOS was evaluated within the scope of E1527-21. Please note that PFAS compounds are ubiquitous in the environment and this limited review is not to be construed as confirmation that PFAS compounds are not present in, at or under the site.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- Reasonable attempts were made to contact the site owner of TSK Properties, Inc. (APNs 021-007-008, and 021-007-009); however, at the issuance of this report, an interview with the site owner of TSK Properties, Inc. was not performed. Based on the historical and environmental regulatory database reviews, the absence of an owner interview does not appear to represent a significant data gap.
- At the time of the site reconnaissance, the on-site residences were inaccessible and could not be observed. Based on the historic nature of the site, and the reported use of the property, the limited observations do not affect the validity of this report, nor the conclusions reached, and does not constitute a significant data gap.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the current utilization of the site, information derived from the most recent reconnaissance, and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products, or emerging contaminants including Per- and Polyfluoroalkyl Substances (PFAS) compounds (if included in the scope of work) may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable

(such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Mid Valley Power. Use or reliance by any other party is prohibited without the written authorization of Mid Valley Power and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement. The limitation of liability defined in the Agreement is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Tyler Ott, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response		
		N/A*	Yes	No
Actual Knowledge of Environmental Liens that may encumber the site.				X
Actual Knowledge of Activity Use Limitations (AULs) that may encumber the site.				X
Specialized Knowledge or Experience that is material to a REC in connection with the site.				X
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.				X
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.				X
Obvious Indicators of Releases at the site.				X

*N/A = Not Applicable

Terracon's consideration of the client-provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 Physical Setting

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 200 to 300 feet above mean sea level (msl).	USGS Topographic Map, Solyo, Patterson, Copper Mountain, and Westley, California Quadrangles, 2021 (Appendix C)
Topographic Gradient	Relatively flat area with a general gradient towards the northeast.	
Closest Surface Water	California Aqueduct, transecting the central portion of the site.	
Soil Characteristics		
Soil Type and Description	Capay Clay (32.9%) This soil, located throughout the northern and central portion of the site, is moderately well drained with 0 to 2 percent slopes. Parent material consists of clayey alluvium derived from sedimentary rock. Typical soil profile consists of clay down to a total depth of 60 inches below ground surface (bgs). Vernalis-Zacharias complex (15.2%) This soil, located throughout the southeastern portion of the site, is well drained with 0 to 2 percent slopes. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam down to total depth of 62 inches bgs. El Solyo silty clay loam (15.1%) This soil, located throughout the central and eastern, is well drained with 0 to 2 percent slopes. Parent material consists of clayey alluvium derived from sedimentary and metamorphic rock. Typical soil profile consists of silty clay loam to 17 inches bgs underlain by silty clay down to a total depth of 60 inches bgs. Zacharias gravelly clay loam (13.9%) This soil, located throughout the northern portion and northwestern corner of the site, is well drained with 0 to 2 percent slopes. Parent material consists of alluvium mixed rock. Typical soil profile consists of gravelly clay loam down to a total depth of 66 inches bgs. Zacharias clay loam (7.1%)	Stanislaus County, California, USDA-NRCS Web Soil Survey, issued September 8, 2025

Physical Setting Information		Source
	This soil, located throughout the southwestern portion of the site, is well drained with 2 to 5 percent slopes. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam down to total depth of 66 inches bgs. Carbona clay loam (5.6%) This soil, located throughout the northwestern portion of the site, is well drained with 2 to 8 percent slopes. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam to a depth of 15 inches bgs underlain by clay to 24 inches and clay loam down to total depth of 60 inches bgs. Zacharias gravelly clay loam (3.6%) This soil, located throughout central western portion of the site, is well drained with 2 to 5 percent slopes. Parent material consists of alluvium from mixed rock. Typical soil profile consists of gravelly clay loam down to total depth of 66 inches bgs. Stomar clay loam (3.5%) This soil, located throughout southern portion of the site, is well drained with 0 to 2 percent slopes. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam to 11 inches bgs underlain by clay to 38 inches bgs and clay loam down to total depth of 60 inches bgs. Zacharias clay loam (3.2%) This soil, located throughout the eastern central portion of the site, is well drained with 0 to 2 percent slopes. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam down to total depth of 60 inches bgs.	
Geology/Hydrogeology		
Formation	Surficial sediments (Qa)	National Geologic Map Database, Dibblee Geological Foundation, *Geologic map of the Solyo and Westerley quadrangles, San Joaquin and Stanislaus*
Description	Alluvial gravel, sand, and clay of valley areas	

Physical Setting Information		Source
		Counties, California, 2007 (1:24,000)
Estimated Depth to First Occurrence of Groundwater	Approximately 140 to 160 feet bgs.	Department of Water Resources (DWR) Sustainable Groundwater Management (SGMA) Data Viewer, Spring and Fall 2025
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the northeast).	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 Historical Use Information

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10-to-15-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from ERIS to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the database provider, Sanborn maps were not available for the site.

- Topographic maps:
  - Romain, California, published in **1913**, **1915**, **1916**, and **1952** (1:24,000)
  - Westley, California, published in **1915**, **1916**, **1952**, **1953**, **1969**, **1971**, **1978**, **1980**, **1991**, **1999**, **2012**, **2015**, **2018**, and **2021** (1:24,000)
  - Carbona, California, published in **1922** and **1941** (1:62,500)
  - Modesto West / Orestimba, California, published in **1941** and **1942** (1:24,000)
  - Mt Boardman, California, published in **1942** (1:24,000)
  - Patterson, California, published in **1952**, **1953**, **1978**, **2015**, **2018**, and **2021** (1:24,000)

- Solyo, California, published in **1953**, **1969**, **1971**, **1978**, **1980**, **1991**, **1999**, **2012**, **2015**, **2018**, and **2021** (1:24,000)
- Copper Mountain, California, published in **1971**, **1978**, **2012**, **2015**, **2018**, and **2021** (1:24,000)

- Aerial photographs:
  - Agricultural Stabilization & Conservation Service, published in **1937**, **1950**, and **1957** (1"=1,700')
  - United States Geological Survey, published in **1967**, **1971**, **1982**, **1987**, and **1998** (1"=1,700')
  - United States Department of Agriculture, published in **2004**, **2005**, **2006**, **2009**, **2010**, **2012**, **2014**, **2016**, **2018**, **2020**, **2022**, and **2024** (1"=1,700')

Historical Resources

Direction	Description
Site	Undeveloped land (1913-1937); developed with the existing Howard Road and utilized with apparent dry farming (1950); depicted with a pipeline transecting through the northern to the southern portions of the site (1952-1953); developed with an irrigation pond along Howard Road (1957); developed with the existing Interstate-5 along the western and southern boundaries and concrete-lined California Aqueduct transecting the central portion of the site; utilized with row crops and *orchards* throughout the site (1967); depicted with multiple pipelines transecting through the northern to the southern portions of the site (1969); utilized with dry farming on the southeastern portion and southern orchards graded and relocated westerly (1971-1980); utilized with orchards throughout southeastern, northern, and northwestern portion (1982-1999); developed with existing single-family residence and agricultural buildings on the northern and central portion of the site (2004-2009); northwestern portion graded (2010); pipelines no longer apparent (2012-2016); developed with the existing solar panels adjoining the residence (2018-2020); developed with the existing irrigation pond located within the southeastern orchards (2022-2024).
North	Undeveloped land (1913-1916); depicted with a pumping station on the western portion (1922-1941); utilized with agricultural row crops and dry farming (1950-1957); utilized for orchards and developed with the existing concrete-lined California Aqueduct on the western portion (1967-1969); pumping station no longer apparent and western portion graded (1971-1998); developed with the existing irrigation pond (2004-2020); utilized with orchards on the western portion (2022-2024).
Northeast	Undeveloped land (1915-1937); developed with the existing concrete-lined Delta Mendota Canal and utilized with agricultural row crops and dry farming (1950-1957); developed with two apparent dwellings on the western portion and utilized with orchards (1967-1982); central and southern portion graded (1987-1991); further developed with multiple structures on the northern portion (1998-2024).

Direction	Description
East	Developed with two apparent dwellings on the northwestern portion followed by undeveloped land (1915-1937); one apparent dwelling no longer apparent (1941-1942); utilized with agricultural row crops and orchards throughout (1950-1957); developed with the existing concrete-lined California Aqueduct (1967); apparent dwelling on the northwestern portion no longer apparent (1969-1993); southern portion graded and developed with a utility substation (1998-2024).
South	Undeveloped land (1915-1957); developed with the existing Interstate-5 (1967-2024).
West	Undeveloped land (1913-1957); developed with the existing Interstate-5 (1967-2024).

DTSC Agricultural Properties Guidance: Organochlorine pesticides (OCPs) were first introduced into California agriculture in 1944 and reached peak usage in the 1960's. In 1974 the use of the DDT was banned for agricultural purposes, and the elimination of remaining OCPs in California agriculture quickly followed.

The site was utilized for orchards from at least 1967 through to the present, which have included the storage and use of pesticides and herbicides. In Terracon's experience, the application of pesticides to orchards can leave trace amounts of the compounds in the soil that may accumulate overtime due to long-term applications. Based on the long-term use of the site for agricultural purposes and the storage of herbicides and pesticides noted during Terracon's site observations, the site's long-term orchard use (~59 years) represents a REC to the site.

3.2 Historical City Directories

The city directories used in this study were made available through ERIS (selected years reviewed: 1964 through 2025) and were reviewed at approximate five-year intervals, if readily available. Street listings were not available prior to 1964. The current street address for the site was identified as 3348, 3731, 3735, and 3739 Howard Road.

Historical City Directories

Direction	Description
Site	**3348 Howard Road:** No listings (1964-2025). **3731 Howard Road:** No listings (1964-2025). ***3735 Howard Road:*** No listings (1964-2025). **3739 Howard Road:** No listings (1964-2025).
North	Orchards and vacant land – no listings.
Northeast	**3261 Howard Road:** No listings (1964-2025). **3553 Howard Road:** No listings (1964-2025). ***3565 Howard Road:*** No listings (1964); Alves A Jr; Jones Clifford E (1972-1975); no listings (1980-1990); Henderson Sue / Henderson Daymond / Henderson & Henderson (1995-2011); no listings (2016-2025). **3575 Howard Road:** No listings (1964-2025). **3579 Howard Road:** No listings (1964-2025).

Direction	Description
East	**3396 Needham Road:** No listings (1964-2025).
South	Interstate-5 – no listings.
West	Interstate-5 – no listings.

The underlined and italicized addresses listed in the table above are identified in the environmental regulatory database and are discussed further in Section 4.1.

3.3 Site Ownership

Based on a review of information obtained from the Stanislaus County Assessor's records, the site owner consists of 13 parcels with multiple owners. The site owners and date of acquisition are identified below:

Assessor Parcel Numbers (APNs)	Owner	Date of Acquisition
021-007-008, 021-007-009	TSK Properties, Inc.	1985
021-015-021	Jon E and Tamara Maring Family Partnership	June 2021
021-013-018, 021-015-023, 021-015-024, 021-015-025, 021-015-026	TCA Properties, Inc.	October 17, 2023
021-013-001, 021-013-020 (3348 Howard Road)	PANA Farms LLC	October 11, 2023
016-037-038, 016-037-039, 016-037-037 (3731, 3735, 3739 Howard Road)	NAPA Farms LLC	2018

3.4 Title Search

At the direction of the client, a title search was included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

The ERIS regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records were provided by the client and previously discussed in Section 1.6. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were contacted regarding the current and historical use of the site.

Interviews

Interviewer	Name / Contact Method	Title	Date
Audra Bastress	Justin Skiles / justin@midvalleypower.com	Construction Manager	September 28, 2026 / 10AM

Terracon interviewed Mr. Justin Skiles, Construction Manager for Mid Valley Power, during the site reconnaissance, who has been familiar with the site for approximately one year. Mr. Skiles stated that the site operates as two single-family residences and agricultural orchards of cherries, apricots, and almonds. He was not aware of any underground storage tanks (USTs), oil/water separators (OWS), or sumps currently or historically located on-site, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on-site. Mr. Skiles was aware of aboveground storage tanks (ASTs) containing fertilizer, diesel, sulfuric acid, and water, temporary mobile diesel and fertilizer ASTs, empty ASTs, herbicide and fertilizer containers, two septic tanks associated with each residence, and heating and/or cooling equipment associated with Single-family residence #1. Mr. Skiles stated that the 1,000-gallon diesel AST located by the irrigation reservoir and the 300-gallon fertilizer AST located on the central portion of the site are temporary mobile ASTs. He further stated that he was aware of irrigation and domestic wells, irrigation pumps associated with the irrigation wells, natural gas pipeline markers, pesticide/herbicide production/storage, and an air compressor associated with the agricultural orchards. Additionally, Mr. Skiles was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

Interviewer	Name / Contact Method	Title	Date
Audra Bastress	Ty Angle / (209) 564-7289	Owner / Partner	September 24, 2026 / 4:54 PM

Terracon interviewed Mr. Ty Angle, Owner / Partner of TCA Properties, Inc., who has been familiar with the associated parcels (APNs 021-013-018, 021-015-023, 021-015-024, 021-015-025, and 021-015-026) for approximately 20 years, via email. Mr. Angle was not aware of any aboveground storage tanks (ASTs), underground storage tanks (USTs), chemical storage drums, oil/water separators (OWS), sumps, septic tanks, wells, or pipelines currently or historically located on these parcels, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on these parcels. During Terracon's site reconnaissance, one irrigation well, an irrigation pump with sand filters, one 250-gallon red diesel AST, one 250-gallon empty AST, one 1,000-gallon water/fertilizer AST, one temporary mobile 1,000-gallon diesel AST, one 2,500-gallon empty/fertilizer AST, and one 4,000-gallon water AST were observed at the irrigation pond on

APN 021-015-023. Mr. Angle was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the parcels.

Interviewer	Name / Contact Method	Title	Date
Audra Bastress	Jon Maring / jon@jemranches.com	General Partner	September 24, 2026 / 4:54 PM

Terracon interviewed Mr. Jon Maring, General Partner for JTF, who has been familiar with the associated parcel (APN 021-015-021) for approximately 20 years, via email. Mr. Maring indicated that the parcel was acquired in 2006 and is currently used as a cherry orchard. Mr. Maring was not aware of any aboveground storage tanks (ASTs), underground storage tanks (USTs), chemical storage drums, oil/water separators (OWS), sumps, septic tanks, wells, or pipelines currently or historically located on the parcel, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on the parcel. Additionally, Mr. Maring was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the parcel.

Interviewer	Name / Contact Method	Title	Date
Audra Bastress	Navjot Athwal / nav@trinutfarms.com	Managing Member	September 26, 2026 / 8:34 AM

Terracon interviewed Mr. Navjot Athwal, Managing Member for NAPA Farms, LLC, via email, who has been familiar with the associated parcels (APNs 016-037-038, 016-037-039, and 016-037-037) for approximately eight years. Mr. Athwal stated that the parcels were acquired by NAPA Farms, LLC in 2018 and operate as a residence and almond and apricot orchards. He further stated that these APNs are equipped with domestic and irrigation wells, a transformer owned by PG&E, and a septic tank for the mobile home. Mr. Athwal also stated that these parcels are adjoined by the California Aqueduct. He was not aware of any underground storage tanks (USTs), oil/water separators (OWS), or sumps currently or historically located on-site, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on-site. Additionally, Mr. Athwal was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the parcels.

Mr. Athwal, Managing Member for PANA Farms, LLC, was also interviewed via email for the associated parcels (APNs 021-013-001 and 021-013-020), and has been familiar with these parcels for approximately three years. Mr. Athwal stated that these parcels were acquired by PANA Farms LLC on October 11, 2023. He was not aware of any underground storage tanks (USTs), chemical storage drums, oil/water separators (OWS), or sumps, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on these parcels. However, during Terracon's site reconnaissance, various

1-gallon, 2.5-gallon, 5-gallon, and 25-gallon containers and 30-gallon and 55-gallon drums containing oil, lubricant, hydraulic fluid, miticides, herbicides, and pesticides, and empty containers and drums were observed. Mr. Athwal was aware of a diesel aboveground storage tank (AST), septic tank, and heating and/or cooling equipment associated with the residence on site. He further stated that he was aware of irrigation and domestic wells, natural gas pipeline markers, pesticide/herbicide production/storage, and tractors and other farm equipment and an air compressor associated with the agricultural orchards. Mr. Athwal further stated that a gas pipeline marker is present on the parcels. Additionally, Mr. Athwal was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the parcels.

Reasonable attempts were made to contact the site owner of TSK Properties, Inc. (APNs 021-007-008, and 021-007-009); however, at the issuance of this report, an interview with the site owner of TSK Properties, Inc. was not performed. Based on the historical and environmental regulatory database reviews, the absence of an owner interview does not appear to represent a significant data gap.

3.7 Prior Report Review

The following previous report was provided for review, which is summarized below and relevant portions are included in Appendix C.

- Phase I Environmental Site Assessment
  3348 Howard Road, Patterson, Stanislaus County, California
  Dated: February 26, 2026
  Prepared by: Terracon Consultants, Inc.
  For: Mid Valley Power

In February 2026, Terracon Consultants, Inc. (Terracon) prepared a previous Phase I Environmental Site Assessment (ESA) for APNs 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021. At the time of Terracon's site reconnaissance, the site was improved with cherry, apricot, and almond orchards, an irrigation reservoir, and a farmstead consisting of one approximately 2,500-square-foot (SF) single-family one-story residence, one approximately 850-SF vacant one-story residence, a garage, a shed, and a solar farm. During Terracon's prior site reconnaissance, two irrigation pumps with sand filtration systems, seven herbicide above-ground storage tanks (ASTs), a solar farm, one approximately 8,000-gallon water AST, one approximately 250-gallon diesel AST (absent secondary containment), one approximately 250-gallon gasoline AST (absent secondary containment), ten 55-gallon and nine 5-gallon containers of hydraulic fluid, six 5-gallon containers of pesticide, over 100 2.5-gallon containers of herbicide activator, two septic tanks, pipeline markers for three crude oil and two natural gas pipelines, six pole-mounted transformers, approximately 20 feet by 20 feet stained soil adjacent to diesel AST, three irrigation water wells, one domestic water well, one 3,000 SF

pond, and one approximately 200 by 200 SF irrigation reservoir were observed. In the previous Phase I ESA, Terracon identified the following RECs:

- **Aboveground Storage Tanks:** Based on visual observations and absence of secondary containment, the 250-gallon diesel AST with associated staining and 250-gallon gasoline AST represents a REC in connection with the site.
- **Agricultural Operations:** The site was utilized for orchards from at least 1963 through to the present, which have included the storage and use of herbicides and pesticides. Based on the long-term use of the site for agricultural purposes and the storage and mixing of pesticides noted during Terracon's site observations, the site's long-term orchard uses represents a REC to the site.

Terracon notes that the previously observed 250-gallon gasoline AST contains diesel, not gasoline. Terracon also notes that according to the client, one of the 6,000-gallon ASTs located on the central portion of the site reportedly contains fertilizer; however, the 2025 *Phase I ESA* stated that the 6,000-gallon AST contained herbicide. Based on a review of Terracon's previous Phase I ESA, the absence of secondary containment surrounding the two 250-gallon red diesel ASTs, moderate to heavy staining on soil surrounding the 250-gallon diesel AST located east of the vacant residence, and long-term orchard use represent RECs to the site. Additionally, the absence of secondary containment surrounding the temporary mobile 1,000-gallon diesel AST, moderate to heavy staining on soil surrounding the 6,000-gallon fertilizer AST which reportedly previously contained herbicide located on the central portion of the site, and the moderate to heavy staining on soil throughout the pesticide storage building represents a REC to the site.

4.0 Records Review

Regulatory database information was provided by, ERIS, a contract information services company in a report dated September 17, 2026. The purpose of the records review was to obtain sufficient information to assist the environmental professional in determining if a REC, historical REC, controlled REC, or a *de minimis* condition exists at the site in connection with the listing. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following sections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. The groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Environmental Records Sources

Terracon reviewed standard federal, state, and tribal environmental record sources within the approximate minimum search distances as required by ASTM E1527-21 and presented in Table 2 of Section 8.0 (Types of Government Records to be Reviewed) in the ASTM standard. Further, to enhance and supplement the standard environmental record sources, Terracon reviewed additional federal, state, tribal, local, and proprietary environmental record sources, provided by the database firm, if potentially useful and reasonably ascertainable. Please refer to Appendix D (the environmental regulatory database report) for the number of listings within each database reviewed and database definitions and descriptions.

Due to conversion of address data to location coordinates and the accuracy of government records, the facility locations depicted in the environmental regulatory database report may not match actual physical locations. As such, Terracon attempted to field-verify the actual distances of facilities of concern from the site.

4.1.1 Records Summary

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities within 500 feet are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Findings Summary
Central Valley Growers, LLC – Howard III / State of California – DWR Delta Field Division 3735 Howard Road	Site	GEOTRACKER, HAZ GEN	Not a REC, further discussed below.
Pipeline Segment T-301-14 Hydrostatic Test (37.536, -121.261011)		FINDS/FRS	Not a REC, further discussed below.
Alves Ranch 3565 Howard Road	Adjoining / Northeast / Down-Gradient	HHSS, HIST TANK	Not a REC, further discussed below.
U.S. Geological Survey 37.5397 / -121.2505	Adjoining / Northeast / Down-Gradient	PFAS GW, PFAS SAMPLING, PFAS WATER	Not a REC, based on preliminary review of listing and topographic gradient relative to the site.
American Towers - Westley, CA - Site # 302050 4235 Howard Road	250 feet / Northwest / Cross-Gradient	CUPA STANISLAUS	Not a REC, based on preliminary review of listing and absence of violations and incidents.

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Findings Summary
Crimson Pipeline Westley Station 4150 Howard Road	385 feet / West / Up- to Cross-gradient	CERS HAZ	Not a REC, based on preliminary review of listing and absence of violations and incidents.
Turlock Irrigation District / Westley Sub / Modesto Irrigation District / Westley Switchyard 3390 Needham Road	385 feet / East / Down- to Cross-Gradient	CUPA STANISLAUS, CERS HAZ	Not a REC, based on preliminary review of listing and absence of violations and incidents.

Central Valley Growers, LLC – Howard III / State of California – DWR Delta Field Division (3735 Howard Road)

The northern portion of the site, identified as Central Valley Growers, LLC – Howard III and State of California – DWR Delta Field Division, is listed on the Sites in GeoTracker (GEOTRACKER) and Generators from Hazardous Waste Manifest Data (HAZ GEN) databases. According to the GEOTRACKER listing, the site is listed as a historical cannabis program site in 2021. Violations associated with the on-site cannabis program were not identified. According to the HAZ GEN listing, the facility had generated hazardous waste streams consisting of asbestos-containing waste in 2014. Based on the nature of the listing, regulatory status, and absence of reported violations, Central Valley Growers, LLC – Howard III / State of California – DWR Delta Field Division facility operations do not represent a REC to the site.

Pipeline Segment T-301-14 Hydrostatic Test (37.536, -121.261011)

The site, identified as Pipeline Segment T-301-14 Hydrostatic Test, is identified on the Facility Registry Service/Facility Index (FINDS/FRS) database for a hydrostatic test for the western adjoining natural gas pipeline. Additionally, Terracon reviewed the Department of Toxic Substances Control (DTSC) online database EnviroStor and the State Water Resource Control Board (SWRCB) online database GeoTracker, and the site and pipelines were not identified. Based on the nature of the pipeline (natural gas), regulatory status, and absence of reported incidents or releases, the pipeline does not represent a REC to the site.

Alves Ranch (3565 Howard Road)

The above-listed facility, identified as the northeastern adjoining property, located topographically down-gradient relative to the site, is identified on the Historical Hazardous Substance Storage Information Database (HHSS) and Historical Hazardous Substance Storage Container Information - Facility Summary (HIST TANK) databases. According to the HHSS and HIST TANK listings, the facility was regulated for two 350-gallon regular motor vehicle fuel tanks installed in 1960 and 1965, respectively. The tank installed in 1960 was reportedly last used in 1970. Based on the absence of reported violations, regulatory status, and topographic down-gradient position relative to the site, Alves Ranch facility operations do not represent a REC to the site.

The remaining facilities listed in the database report do not constitute RECs based upon regulatory status, apparent topographic gradient, and/or distance from the site. None of the remaining facilities are located at or adjacent to the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed 39 facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site or adjacent properties. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
San Joaquin Valley Air Pollution Control District / Online: https://apps.valleyair.org/PublicPermits	On September 16, 2026, Terracon reviewed the agency's online records relating to the site and records were not identified.
Stanislaus County Building Department / Email: building@stancounty.com	On October 8, 2026, Terracon received records from the agency relating to the site. The provided records included building permits for agricultural pump electrical service from 2004 through 2023, permits for mobile homes from 2001 to 2009, and a permit for the installation of solar panels from 2017. Based on the records reviewed, the permits do not represent a REC to the site.
Department of Toxic Substances Control / Email: PubReqAct@dtsc.ca.gov	On September 18, 2026, Terracon received a response from the agency indicating records were not identified for the site.
Stanislaus County Environmental Health / Email: er-publicrecords@envres.org	On September 25, 2026, Terracon received a response from the agency indicating records were not identified for the site.
West Stanislaus Fire District / Email: abest@pattersonca.gov	On September 22, 2026, Terracon received a response from the agency indicating records were not identified for the site.
City of Patterson Public Works Department / Online: https://pattersonca.nextrequest.com/	On September 17, 2026, Terracon received a response from the agency indicating records were not identified for the site.
Central Valley Regional Water Quality Control Board (CVRWQCB) / Email: r5s-pra@waterboards.ca.gov	On September 17, 2026, Terracon received records from the agency relating to the site. The provided records included a notice of applicability (2021), cannabis order termination request form (2022), and enrollment information for the state waterboard Online Cannabis Water Quality Monitoring & Reporting Program for APN 016037039 (2022-2023). Additionally, all APNs associated with the site were enrolled and in good standing under the CVRWQCB's Irrigated Lands Regulatory Program (ILRP). Based on the records reviewed, the records do not represent a REC to the site.

4.3 Local Area Knowledge

Based on a review of the California Department of Conservation's Geologic Energy Management Division (CalGEM) Well Finder website, there are no active or decommissioned oil or gas production wells located on the site or surrounding properties.

Based on a review of the National Pipeline Mapping System (NPMS) Public Viewer website, a crude oil pipeline for Crimson Pipeline L.P. transects the northern to the southern portion of the site. One natural gas transmission pipeline for Pacific Gas & Electric (PG&E) adjoins the western portion of the site along Interstate-5. Additionally, two crude oil pipelines, one for Phillips 66 Pipeline LLC and one for Crimson Pipeline L.P., are located to the west of the site along Interstate-5. Reported incidents or releases were not identified in connection with the pipelines. Additionally, Terracon reviewed the Department of Toxic Substances Control (DTSC) online database EnviroStor and the State Water Resource Control Board (SWRCB) online database GeoTracker, and the site and pipelines were not identified. Based on the absence of regulatory release listings associated with the pipelines, such as Leaking Underground Storage Tank (LUST) or Spills, Leaks, Investigation, and Cleanup (SLIC), the pipelines do not represent a REC to the site.

5.0 Site Reconnaissance

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	Audra Bastress
Reconnaissance Date	September 28, 2026
Weather Conditions	70° F / Sunny
Site Contact/Title	Justin Skiles / Construction Manager
Site Utilities	
Drinking Water	On-site domestic wells
Wastewater	On-site septic tanks

Site Reconnaissance				
Electric	Pacific Gas & Electric (PG&E) / Turlock Irrigation District			
Natural Gas	PG&E			
Building Description				
Building Identification	**Building Use**	**Approx. Construction Date**	**Number of Stories**	**Approx. Size (ft²)**
Single-family residence #1 (3735 Howard Road)	Residential	2004	1	1,200
Single-family residence #2 (3348 Howard Road)	Residential	2004	1	2,500
Vacant residence (3348 Howard Road)	Vacant	2004	1	850
Maintenance Garage and Pesticide Storage Building	Farm equipment maintenance and storage	2004	1	4,200

5.2 Overview of Current Site Occupants and Operations

During the site reconnaissance, the site was occupied by TSK Properties, Inc., Jon E and Tamara Maring Family Partnership, TCA Properties Inc., PANA Farms LLC, and NAPA Farms LLC and operated as a single-family residence and an agricultural orchard of cherries, apricots, and almonds.

5.3 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	

Category	Item or Feature	Observed or Identified
	Waste treatment systems and/or water treatment systems	X
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	X
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	X
Aboveground Chemical or Waste Storage	Aboveground storage tanks	X
	Drums, barrels, and/or containers ≥ 5 gallons	X
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	X
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	X
	Interior floor drains	
Electrical Transformers/ PCBs	Transformers and/or capacitors	X
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	X
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	X

Category	Item or Feature	Observed or Identified
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	X
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	X
	Quarries or pits	
	Wastewater lagoons	
	Wells	X

Site Operations, Processes, and Equipment

Waste treatment systems and/or water treatment systems
According to Mr. Skiles, the irrigation pump adjoining the reservoir are equipped with sand filters to filter out impurities and algae before utilized for the orchards. Based on site observations and the interview with Mr. Skiles, the water treatment system does not represent a REC to the site.

Pesticide/herbicide production or storage
The following pesticide and herbicide containers were observed at the site:

Quantity	Approximate Capacity (gallons)	Contents	Location
16+	2.5	Pesticides	Pesticide Storage Building / Irrigation reservoir
100+	2.5	Herbicide	Pesticide Storage Building / Storage containers / Irrigation reservoir

One pesticide storage building and two storage containers were observed on the central portion of the site. The building and storage containers were observed with eight 1-gallon containers of miticides, over ten 2.5-gallon containers of pesticides, and over 100 2.5-gallon containers of herbicides. Staining on soil was observed within the pesticide storage building, covering multiple approximately 1 foot by 1 foot, 2 feet by 2 feet, and 2 feet by 3 feet areas of soil. Based on the long-term agricultural operations, the storage and handling of pesticides and herbicides and associated staining on soil at the site represent a REC to the site.

Other processes or equipment

The central northern portion of the site was developed with a solar panel farm in 2018. The solar panels are used to offset the usage of the domestic well and irrigation wells. Based on site observations, the solar panel farm does not represent a REC to the site.

Aboveground Chemical or Waste Storage

Aboveground storage tanks

The following aboveground storage tanks (ASTs) were observed at the site:

Quantity	Approximate Capacity (gallons)	Contents	Location	Secondary Containment?
1	250	Red Diesel	Irrigation reservoir	No
1	250	Empty		No
1	1,000	Diesel		No – temporary mobile AST
1	1,000	Water / Fertilizer		No – temporary mobile AST
1	2,500	Empty / Fertilizer		No
1	4,000	Water		No
1	1,500	Sulfuric Acid	Northern portion of the site	No
1	2,500	Empty / Fertilizer		No
1	250	Red Diesel	East of the vacant residence	No
1	250	Empty	Central portion of the site	No
1	300	Fertilizer		No – temporary mobile AST
1	2,000	Sulfuric Acid		No
1	2,400	Empty		No
2	6,000	Fertilizer		No
1	1,000	Fertilizer	Southwest of Single-family residence #2	No

During the site reconnaissance, Terracon observed two approximately 250-gallon ASTs containing red diesel, one approximately 300-gallon temporary mobile AST containing fertilizer, two approximately 1,000-gallon ASTs containing water and fertilizer, one approximately 1,000-gallon temporary mobile AST containing diesel, one approximately 1,500-gallon AST and one approximately 2,000-gallon AST containing sulfuric acid, two approximately 2,500-gallon ASTs containing fertilizer, one approximately 4,000-gallon water AST, and two approximately 6,000-gallon fertilizer ASTs. According to the client, one of the 6,000-gallon ASTs located on the central portion of the site reportedly contains fertilizer; however, the 2025 *Phase I ESA*, prepared by Terracon, stated that the 6,000-gallon AST contained herbicide. Additionally, two empty approximately 250-gallon ASTs and one approximately 2,400-gallon AST were observed. The ASTs were observed on soil and secondary containment was not observed. Staining was

observed on the soil surrounding the 250-gallon red diesel AST located east of the vacant residence, covering an approximately 20 feet by 20 feet area of soil. Staining on soil was observed on the soil surrounding the 6,000-gallon fertilizer AST, which reportedly previously contained herbicide, located on the central portion of the site, covering approximately four feet by six feet of soil. Based on the absence of secondary containment surrounding the two 250-gallon red diesel and the temporary mobile 1,000-gallon diesel ASTs, and the observed moderate to heavy staining on soil surrounding the 250-gallon red diesel AST located east of the vacant residence and the 6,000-gallon fertilizer AST which reportedly previously contained herbicide located on the central portion of the site, the potential for a release to the subsurface represents a REC in connection with the site.

Drums, barrels, and/or containers ≥ 5 gallons

Approximately one 1-gallon and three 5-gallon containers of oil, two 55-gallon and nine 5-gallon containers of hydraulic fluid, one 25-gallon container of diesel, over 16 2.5-gallon containers of pesticides, and over 100 2.5-gallon containers of herbicides were observed throughout the site. Additionally, several empty 5-gallon, 30-gallon, 55-gallon, and 275-gallon totes were observed throughout the site.

During the site reconnaissance, the following drums and containers were observed:

Approx. Quantity	Approximate Capacity (gallons)	Contents	Location
6	2.5	Pesticides	Irrigation reservoir
1	55	Diesel	
100+	2.5	Herbicides	Storage containers / Irrigation reservoir
1	5	Oil	Northern exterior of the vacant residence
2	5	Empty	
15	30		
3	55		
1	1	Oil	Maintenance Garage
1	5	Lubricant	
9	5	Hydraulic Fluid / Oil	
2	55	Hydraulic Fluid	
1	25	Diesel	
8	1	Miticides	Pesticide Storage Building
10+	2.5	Herbicides	
10+	2.5	Pesticides	
2	5	Oil	
7	5	Empty	
4	30	Empty	
7	275	Empty	

Approx. Quantity	Approximate Capacity (gallons)	Contents	Location
2	275	Empty	Northern portion of the site
2	275	Unknown - Fertilizer	Central portion of the site
4	275	Empty	Western exterior of the Maintenance Garage and Pesticide Storage Building

Staining was observed within the pesticide storage building, covering multiple approximately 1 foot by 1 foot, 2 feet by 2 feet, and 2 feet by 3 feet areas of soil. Based on the observed staining on soil throughout the pesticide storage building, the potential for a release to the subsurface represents a REC in connection with the site.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Septic tanks and/or leach fields
Terracon observed that the restrooms of the residences discharge to septic tanks with pump out access ports located on the western exterior of Single-family residence #1, northern exterior of the vacant residence, and the eastern exterior of Single-family residence #2. Noxious odors or evidence of a release was not observed in the vicinity of the septic tanks. Based on the nature of the waste discharged to the septic tank (restroom), the septic tanks and associated leach lines do not represent a REC to the site.

Pipeline markers
A natural gas pipeline marker was observed adjoining the eastern boundary of the site. According to the U.S. Department of Transportation's National Pipeline Mapping System (NPMS), there are three buried pipelines that run through the site – one crude oil pipeline operated by Crimson Pipeline, through the northwestern to southeastern portions, and two natural gas pipelines, operated by PG&E, adjoining the northern boundary and adjoining Interstate-5 transecting the site. No releases or incidents were reported. Based on the absence of regulatory release listings associated with the pipelines, such as Leaking Underground Storage Tank (LUST) or Spills, Leaks, Investigation, and Cleanup (SLIC), the pipelines do not represent a REC to the site.

Electrical Transformers/PCBs

Transformers and/or capacitors
During the site reconnaissance, 11 pole-mounted transformers were observed throughout the site. The transformers are owned and serviced by PG&E; however, no information with regard to polychlorinated biphenyl (PCB) content of the transformer fluids was observed. Some transformers contain mineral oil which may contain PCBs.

PG&E maintains responsibility for the transformers, and if the transformers were "PCB contaminated," the utility company is not required to replace the transformer fluids until a release is identified. However, evidence of current or prior releases was not observed in the

vicinity of the electrical equipment during the site reconnaissance. Based on this information, the on-site electrical equipment does not represent a REC to the site.

Releases or Potential Releases

Stained soil
During the site reconnaissance, staining was observed on the soil surrounding the red diesel AST located east of the vacant residence covering approximately 20 feet by 20 feet of soil, and on the soil surrounding the 6,000-gallon fertilizer AST which reportedly previously contained herbicide located on the central portion of the site covering approximately four feet by six feet of soil. Additionally, staining was observed within the pesticide storage building, covering multiple approximately 1 foot by 1 foot, 2 feet by 2 feet, and 2 feet by 3 feet areas of soil. Based on the absence of secondary containment around the 250-gallon red diesel AST, observed moderate to heavy staining on soil surrounding the 250-gallon red diesel AST located east of the vacant residence and the 6,000-gallon fertilizer AST which reportedly previously contained herbicide located on the central portion of the site, and moderate to heavy staining on soil throughout the pesticide storage building, the potential for a release to the subsurface represents a REC to the site.

Trash, debris, and/or other waste materials
During the site reconnaissance, Terracon observed trash, consisting of typical municipal litter items such as bottles, plastic, and miscellaneous food wrappers were observed throughout the site. Staining, noxious odors, or evidence of hazardous materials disposal were not observed. Based on site observations, the debris materials did not appear to be hazardous in nature and do not represent a REC to the site.

Construction/demolition debris and/or dumped fill dirt
During the site reconnaissance, Terracon observed six stockpiles on the northern portion of the site and one stockpile on the northwestern portion of the site.

The following stockpiles were observed:

- SP1: Approximately 4.5 cubic yards consisting of wood
- SP2: Approximately 5 cubic yards consisting of gravel
- SP3: Approximately 14.5 cubic yards consisting of irrigation pipes
- SP4: Approximately 10 cubic yards consisting of wood and almond shells
- SP5: Approximately 14.5 cubic yards consisting of gravel
- SP6: Approximately 3 cubic yards consisting of gravel
- SP7: Approximately 18 cubic yards consisting of dirt and wood

Mr. Skiles indicated that the stockpiles located on the northern portion of the site are associated with the agricultural operations on-site. Staining, noxious odors, or evidence of

hazardous waste disposal was not observed. Based on site observations and interview with Mr. Skiles, the stockpiles do not represent a REC to the site.

Other Notable Site Features

Surface water bodies
During the site reconnaissance, one approximately 200 feet by 200 feet irrigation reservoir was observed on the southern portion of the site and one approximately 3,000 SF pond was observed on the northern portion of the site along Howard Road. The reservoir and pond are reportedly unlined. The reservoir and pond are man-made and Mr. Skiles indicated they are utilized to modulate water to and from the aqueduct for orchard irrigation. He further stated the reservoir and pond are equipped with an electrical pump with electrical control boxes powered by the nearby PG&E pole-mounted transformers. Noxious odors or free-floating products were not observed on the bodies of water. Based on site observations, the surface bodies of water do not represent a REC to the site.

Wells
Four irrigation water wells were observed throughout the site and two domestic water well were observed adjoining the Single-family residence #1 and Single-family residence #2. Staining, noxious odors, or hazardous materials storage were not observed in the vicinity of the wells. Based on site observations, the wells do not represent a REC to the site.

6.0 Adjoining Property Reconnaissance

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	The northern adjoining property consists of orchards and vacant land (no assigned address).
Northeast	The northeastern adjoining property consists of a single-family residence (3565 Howard Road) and multiple agricultural buildings and orchards (3261, 3553, 3575, and 3579 Howard Road).
East	The eastern adjoining property consists of orchards and Utility Substation (3396 Needham Road) and orchards (no assigned addresses).
South	The southern adjoining property consists of Interstate-5.
West	The western adjoining property consists of Interstate-5.

RECs associated with the site originating from current off-site locations were not identified.

7.0 Additional Services

Per the agreed scope of services, additional services (asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, evaluation for emerging contaminants including PFAS, etc.) were not conducted.

8.0 Declaration

I, Carl A. Parten, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

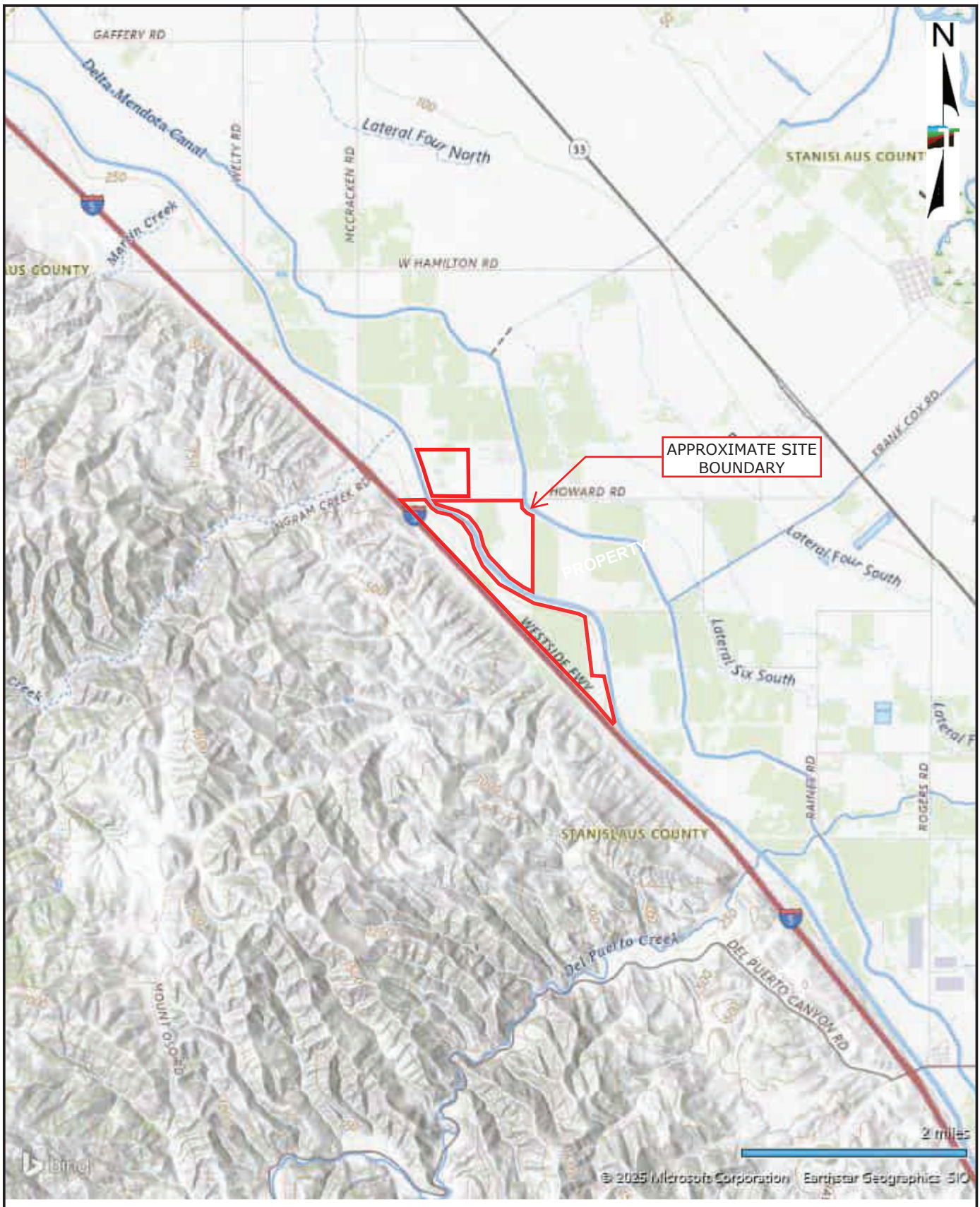


Carl A. Parten
Environmental Professional

APPENDIX A

EXHIBIT 1: TOPOGRAPHIC MAP

EXHIBIT 2: SITE DIAGRAM



Project No.	1000062160
Scale:	AS SHOWN
Client:	MID VALLEY POWER
Date:	OCTOBER 2026

Terracon

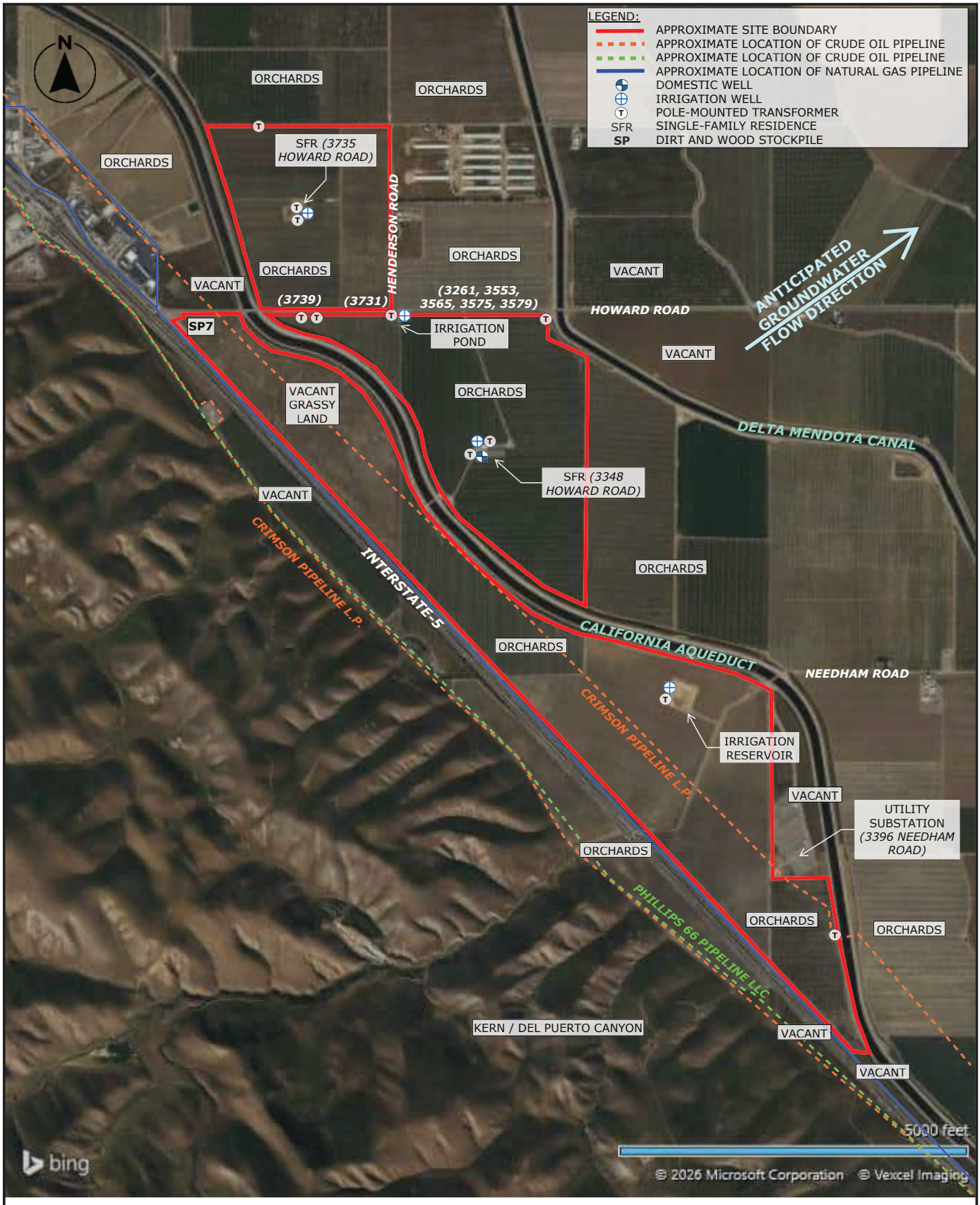
902 INDUSTRIAL WAY
LODI, CALIFORNIA 95240

TOPOGRAPHIC MAP

HONDEVILLE ENERGY CENTER
3348, 3731, 3735, AND 3739 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit

1



Project No.	1000062160
Scale:	AS SHOWN
Client:	MID VALLEY POWER
Date:	OCTOBER 2026

Terracon

902 INDUSTRIAL WAY
LODI, CALIFORNIA 95240

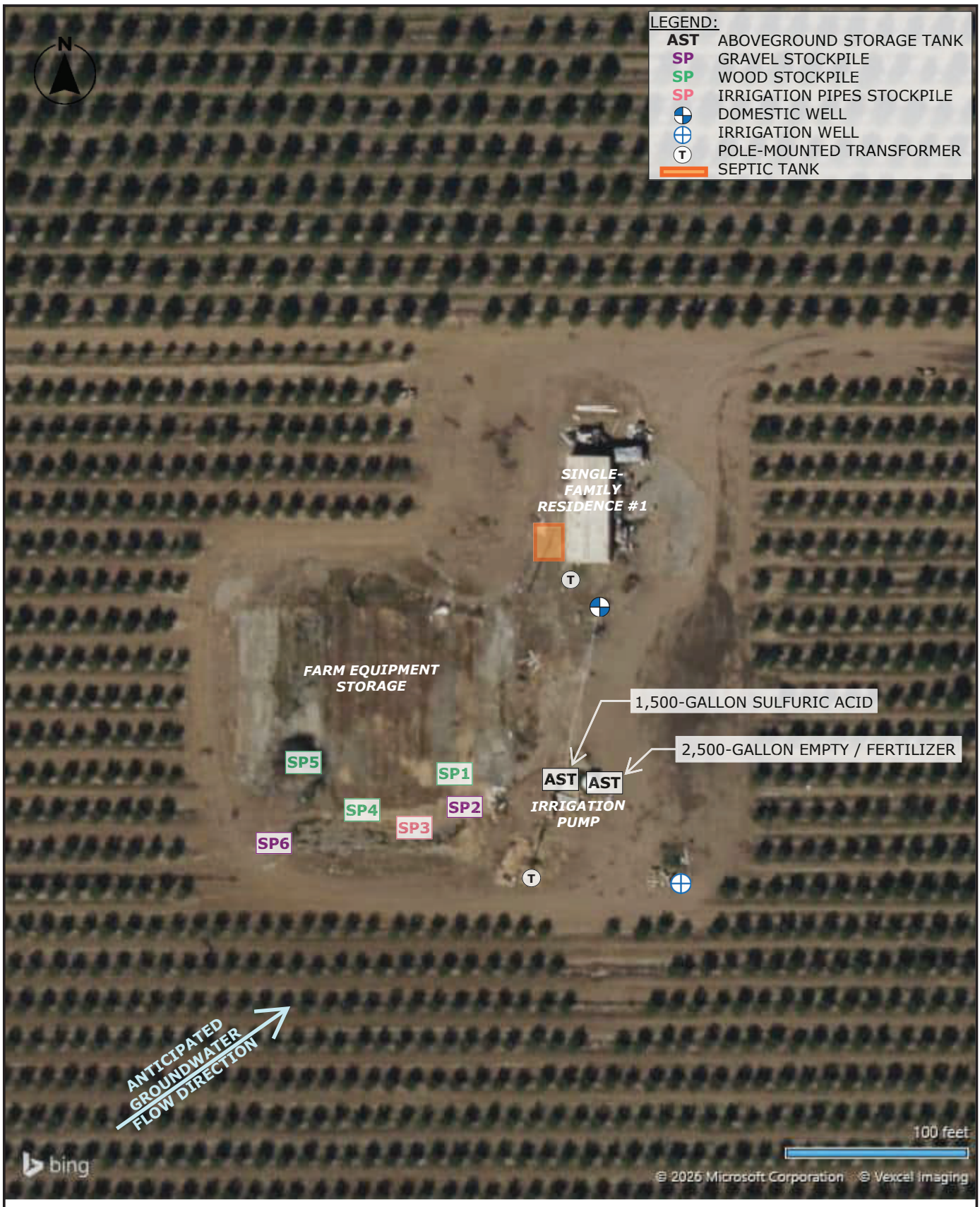
SITE DIAGRAM

HONDEVILLE ENERGY CENTER

3348, 3731, 3735, AND 3739 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit

2



Project No.	1000062160
Scale:	AS SHOWN
Client:	MID VALLEY POWER
Date:	OCTOBER 2026

Terracon

902 INDUSTRIAL WAY
LODI, CALIFORNIA 95240

SITE DETAIL - NORTH

HONDEVILLE ENERGY CENTER

3348, 3731, 3735, AND 3739 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit

3



DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project No.	1000062160
Scale:	AS SHOWN
Client:	Mid Valley Power
Date:	OCTOBER 2026

Terracon
50 Golden Land Court Suite 100
Sacramento, California 95834-2425

SITE DETAIL - CENTRAL

HONDEVILLE ENERGY CENTER
3348, 3731, 3735, AND 3739 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit
4



Project No.	1000062160
Scale:	AS SHOWN
Client:	Mid Valley Power
Date:	OCTOBER 2026

Terracon
50 Golden Land Court Suite 100
Sacramento, California 95834-2425

SITE DETAIL - SOUTH

HONDEVILLE ENERGY CENTER
3348, 3731, 3735, AND 3739 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit

5

APPENDIX B

SITE PHOTOGRAPHS

Project Name: Hondeville Energy Center
Project No. 1000062160
Photo Date: September 28, 2026



Photo #1 View of Single-family residence #1, located on the northern portion of the site.



Photo #2 View of the 1,500-gallon sulfuric acid and 2,500-gallon fertilizer ASTs and irrigation pump, located on the northern portion of the site.



Photo #3 View of various wood and gravel stockpiles, located on the northern portion of the site.



Photo #4 View of the farm equipment storage, located west of Single-family residence #1.



Photo #5 View of the irrigation pond, located on the northern portion of the site along Howard Road.



Photo #6 View of Single-family residence #2, located on the central portion of the site.



Photo #7 View of the septic output, located along the eastern exterior of Single-family residence #2.



Photo #8 View of the vacant residence and storage containers, located on the central portion of the site.



Photo #9 View of the interior of the vacant residence.



Photo #10 View of various empty, sulfuric acid, and fertilizer ASTs, located on the central portion of the site.



Photo #11 View of staining on soil surrounding the 6,000-gallon fertilizer AST.



Photo #12 View of the interior of the pesticide storage building.



Photo #13 View of staining on soil within the pesticide storage building.



Photo #14 View of staining on soil within the pesticide storage building.



Photo #15 View of a 5-gallon bucket containing oil, located within the pesticide storage building.



Photo #16 View of the 250-gallon red diesel AST, located east of the vacant residence.



Photo #17 View of staining on soil surrounding the 250-gallon red diesel AST east of the vacant residence.



Photo #18 View of the interior of the maintenance garage.



Photo #19 View of 5-gallon buckets containing hydraulic fluid, located within the maintenance garage.



Photo #20 View of a 55-gallon drum and 1-gallon bucket containing oil, located within the maintenance garage.



Photo #21 View of the air compressor, located within the maintenance garage.



Photo #22 View of the interior of a storage container, located east of the vacant residence.



Photo #23 View of the irrigation reservoir, located on the southern portion of the site.



Photo #24 View of the irrigation pump with sand filters, located south of the irrigation reservoir.



Photo #25 View of various empty, water, and fertilizer ASTs, located south of the irrigation reservoir.



Photo #26 View of the temporary mobile 1,000-gallon diesel AST and 55-gallon drum, located south of the irrigation reservoir.



Photo #27 View of the 250-gallon red diesel AST, located south of the irrigation reservoir.



Photo #28 View of the irrigation well, located west of the irrigation reservoir.



Photo #29 View of the dirt and wood stockpile, located on the northwestern portion of the site.



Photo #30 View of the natural gas pipeline marker, located on the southeast portion of the site.



Photo #31 View of the northern adjoining property, orchards.



Photo #32 View of the northeastern adjoining property, multiple agricultural buildings (3261, 3553, 3575, and 3579 Howard Road).



Photo #33 View of the eastern adjoining property, Utility Substation (3396 Needham Road).



Photo #34 View of the western adjoining property, Interstate-5.

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

ASTM E1527-21 User Questionnaire

Date Completed	September 24, 2026
Person Completing Questionnaire	Name: Tyler Ott Phone: (209) 918-1766 Company: Mid Valley Power Email: tyler@midvalleypower.com
Site Name	Hondeville Energy Center
Site Address	3735 Howard Rd, Westley, CA 95387 to 3396 Needham Rd,
Point of Contact for Access	Name: Justin Skiles Phone: (209) 247-8711 Company: Mid Valley Power Email: Justin@midvalleypower.com
Access Restrictions or Special Site Requirements?	_✓_No ___Yes (If yes, please explain)
Confidentiality Requirements?	_✓_No ___Yes (If yes, please explain)
Current Site Owner	Name: Various - see attached APN Map Phone: Company: Email:
Current Site Operator	Name: Various - see attached APN Map Phone: Company: Email:
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	Solar and energy storage project development and financing
Anticipated Future Site Use	June 2027
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.

ASTM User Questionnaire

To qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the user must respond to the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate* inquiries" is not complete.

1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)?

_✓_No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

2) Did a search of land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.26)?

___No _✓_Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?

_✓_No ___Yes (If yes, explain below)

4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?

_✓_No ___Yes ___Not applicable (If yes or Not applicable, explain below)

5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? For example, (a.) Do you know the past uses of the site? (b.) Do you know of specific chemicals that are present or once were present at the site? (c.) Do you know of spills or other chemical releases that have taken place at the site? (d.) Do you know of any environmental cleanups that have taken place at the site?

___No _✓_Yes (If yes, explain below)

6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of releases at the site (40 CFR 312.31)?

_✓_No ___Yes (If yes, explain below)

Comments or explanations:

1) There are Williamson Act Contracts in place on APNs 1, 7-13. 2) there are drainage easements recorded on various APNs from the DWR. 5) the site contains almond, cherry and apricot field which

Please return this form with the signed authorization to proceed.

TOPOGRAPHIC MAPS

Project Property:	Hondeville Energy Center 3348 Howard Avenue Patterson CA 95363
Project No:	49427
Requested By:	Terracon
Order No:	26091602783
Date Completed:	September 17, 2026

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
1913	7.5
1915	7.5
1916	7.5
1922	15
1941	15
1942	15
1952	7.5
1953	7.5
1969	7.5
1971	7.5
1978	7.5
1980	7.5
1991	7.5
1999	7.5
2012	7.5
2015	7.5
2018	7.5
2021	7.5

Topographic Map Symbology for the maps may be available in the following documents:

Pre-1947

Page 223 of 1918 Topographic Instructions

Page 130 of 1928 Topographic Instructions

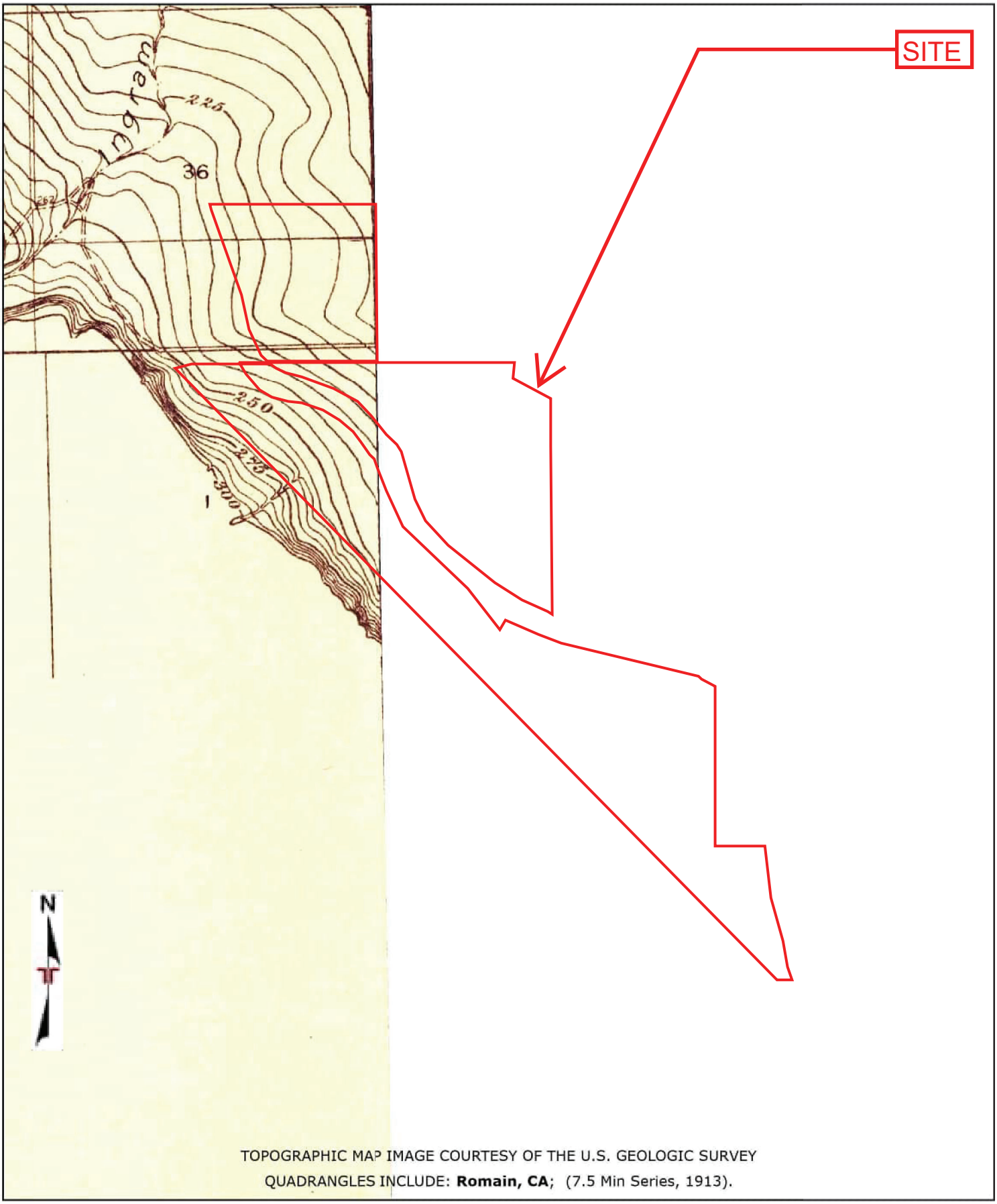
1947-2009

Topographic Map Symbols

2009-present

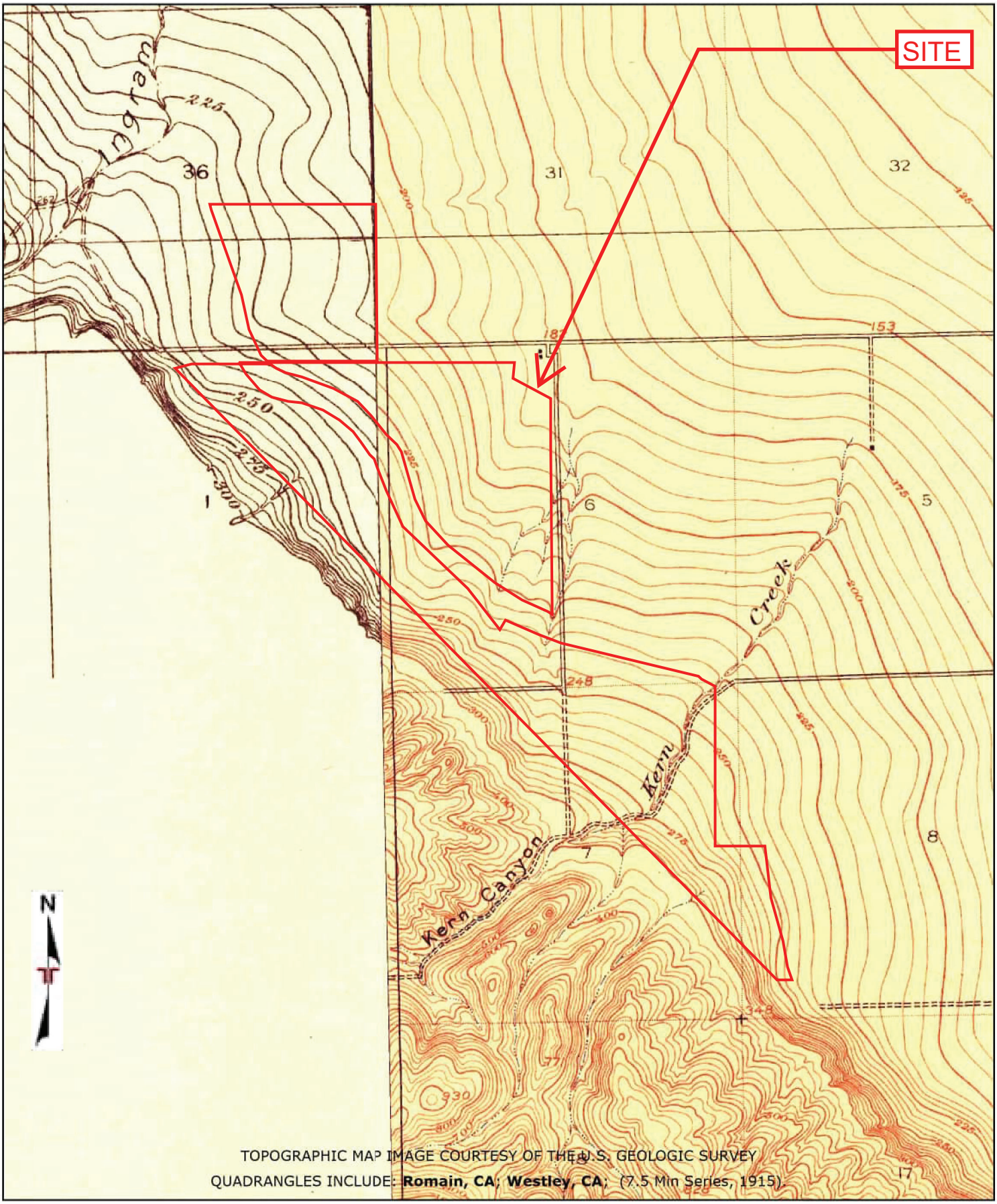
US Topo Map Symbols

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.
No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc.(in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS', using Topographic Maps produced by the USGS. This maps contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

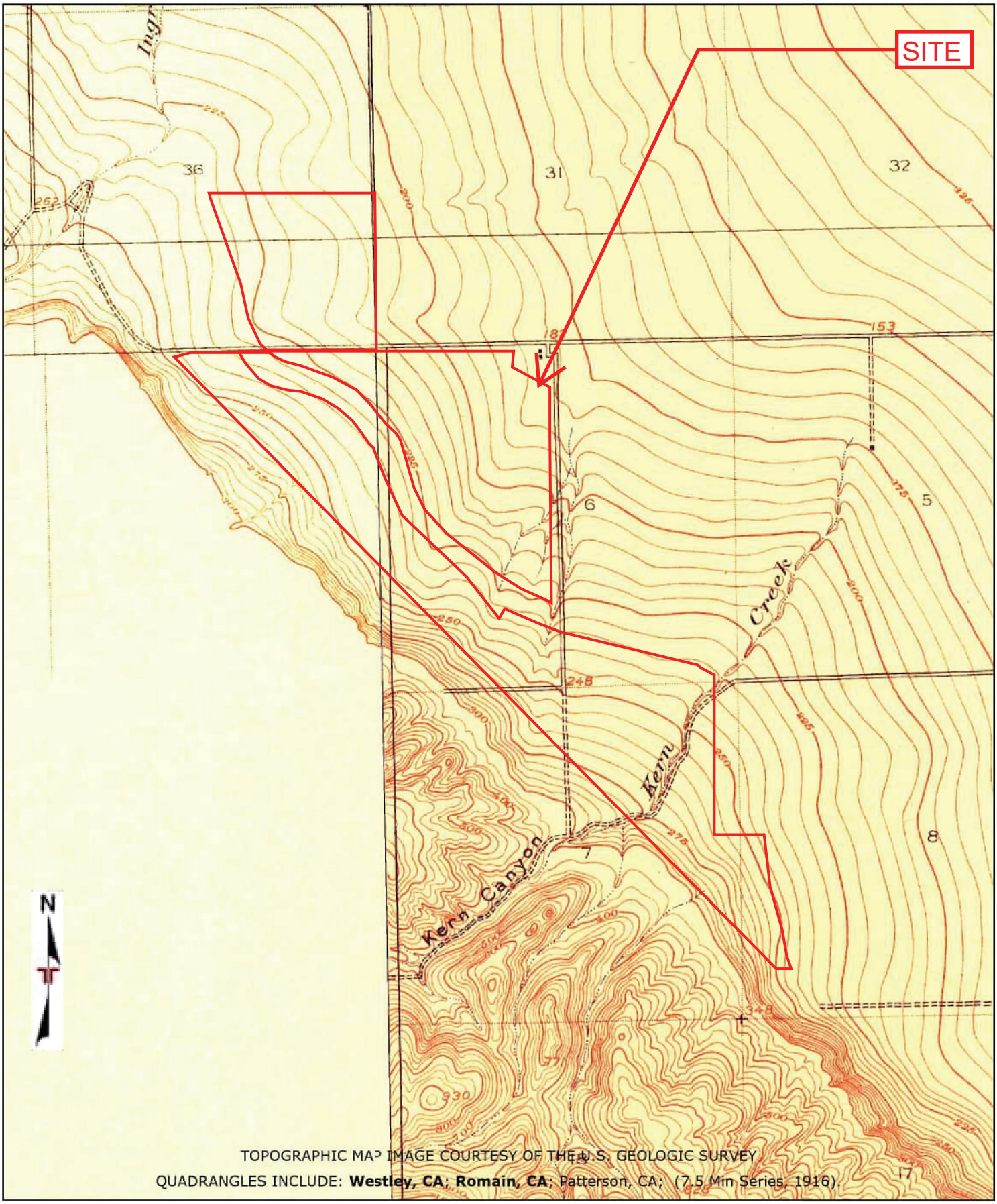


TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY
QUADRANGLES INCLUDE: **Romain, CA**; (7.5 Min Series, 1913).

Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1913)	Appendix
Drawn By: ACB	**Scale:** 1" = 2000'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1915) Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	Appendix C
Drawn By: ACB	**Scale:** 1" = 2000'			
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

Terracon

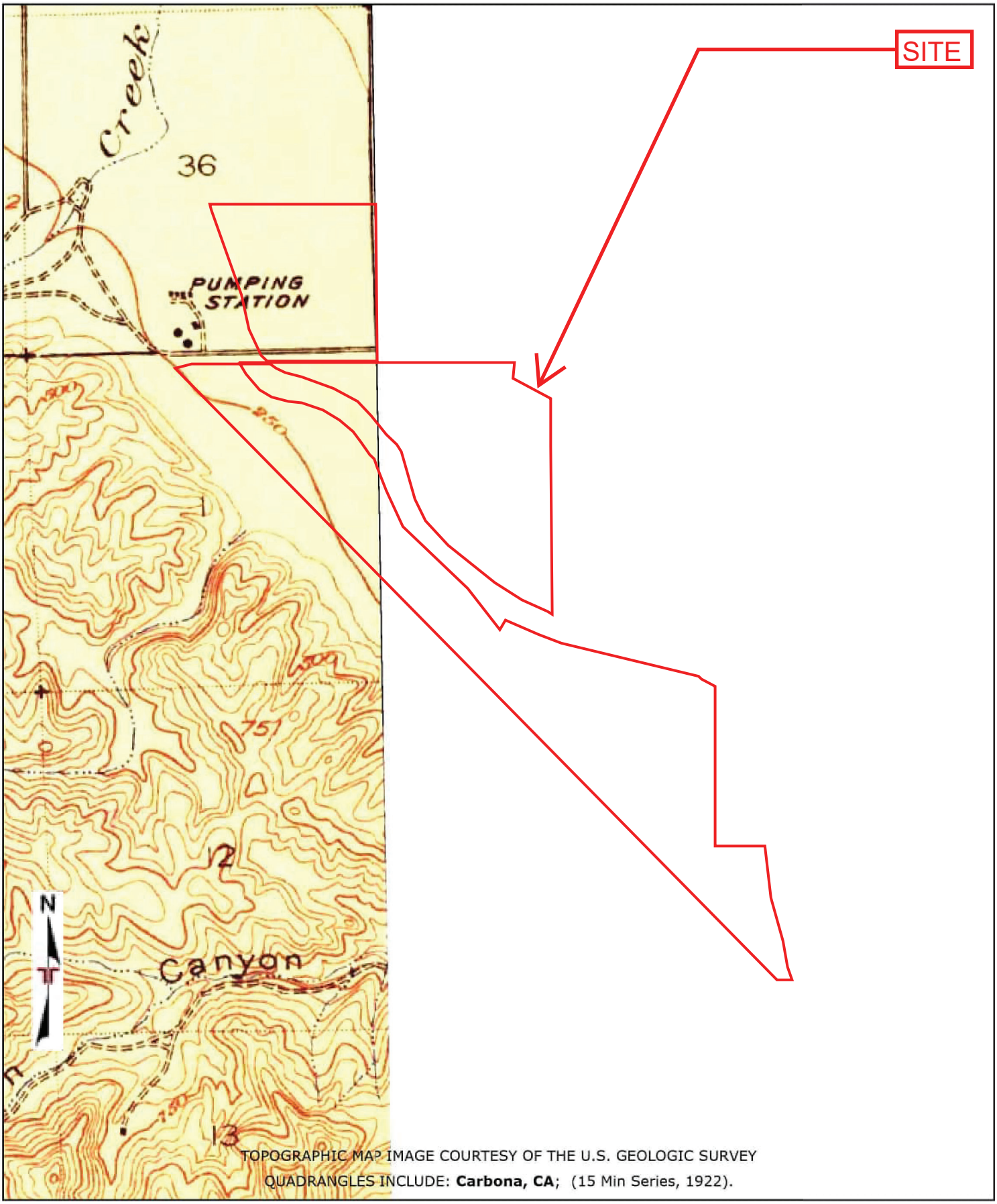
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (1916)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

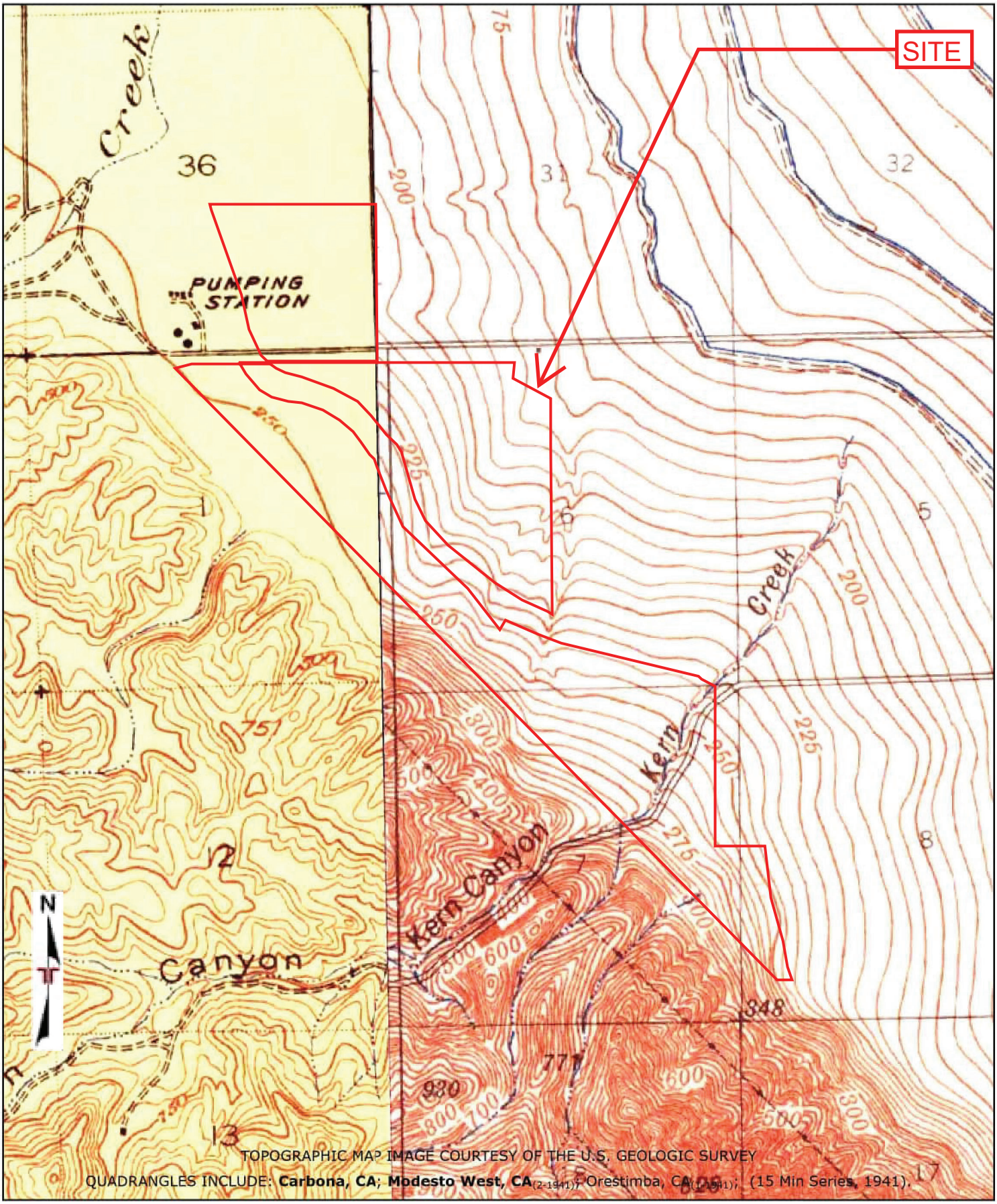
Appendix

C



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY
QUADRANGLES INCLUDE: **Carbona, CA**; (15 Min Series, 1922).

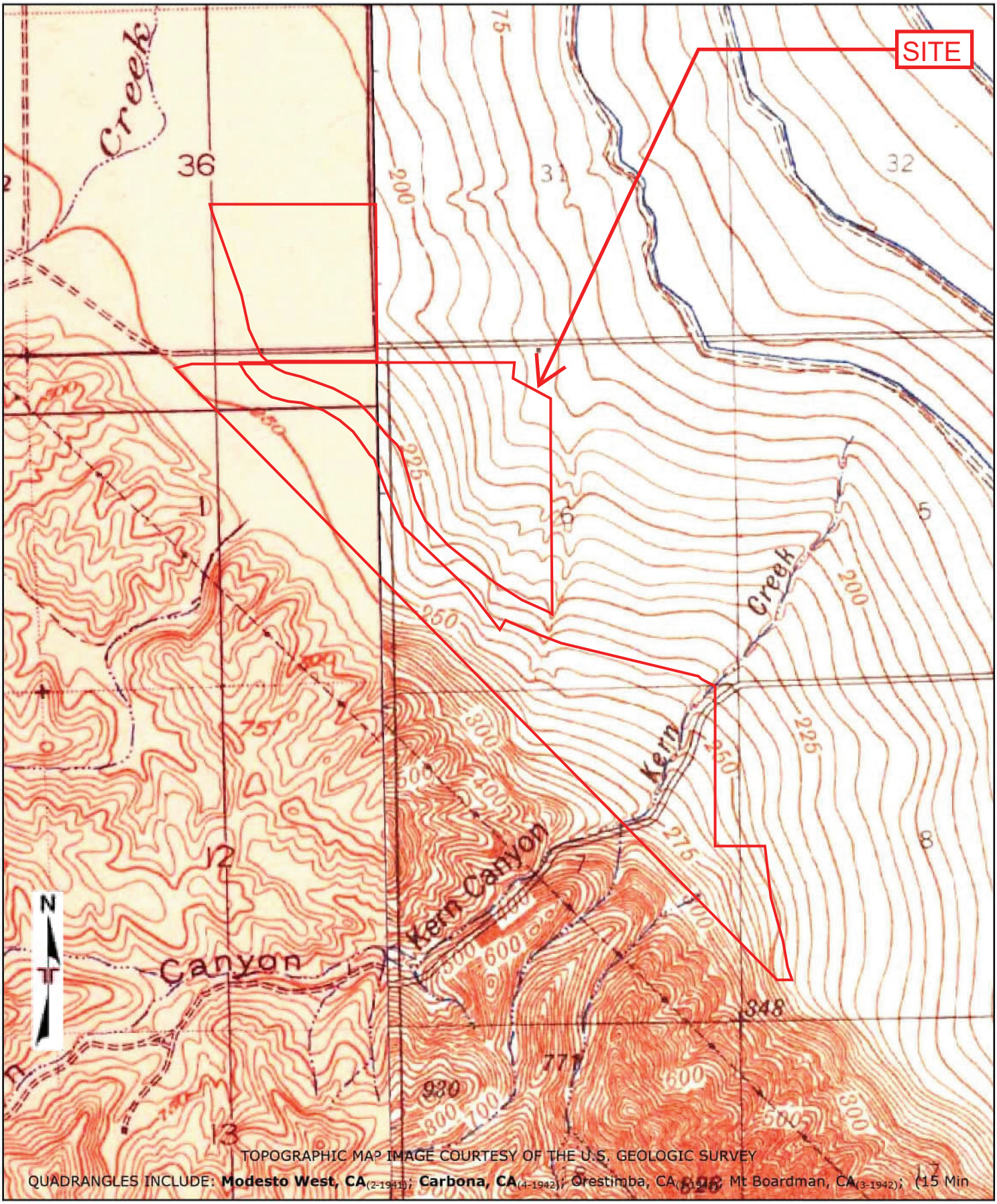
Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1922)	Appendix
Drawn By: ACB	**Scale:** 1" = 2000'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY

QUADRANGLES INCLUDE: **Carbona, CA**; **Modesto West, CA**(2-1941); Orestimba, CA(1-1941); (15 Min Series, 1941).

Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1941) Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	Appendix C
Drawn By: ACB	**Scale:** 1" = 2000'			
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

Terracon

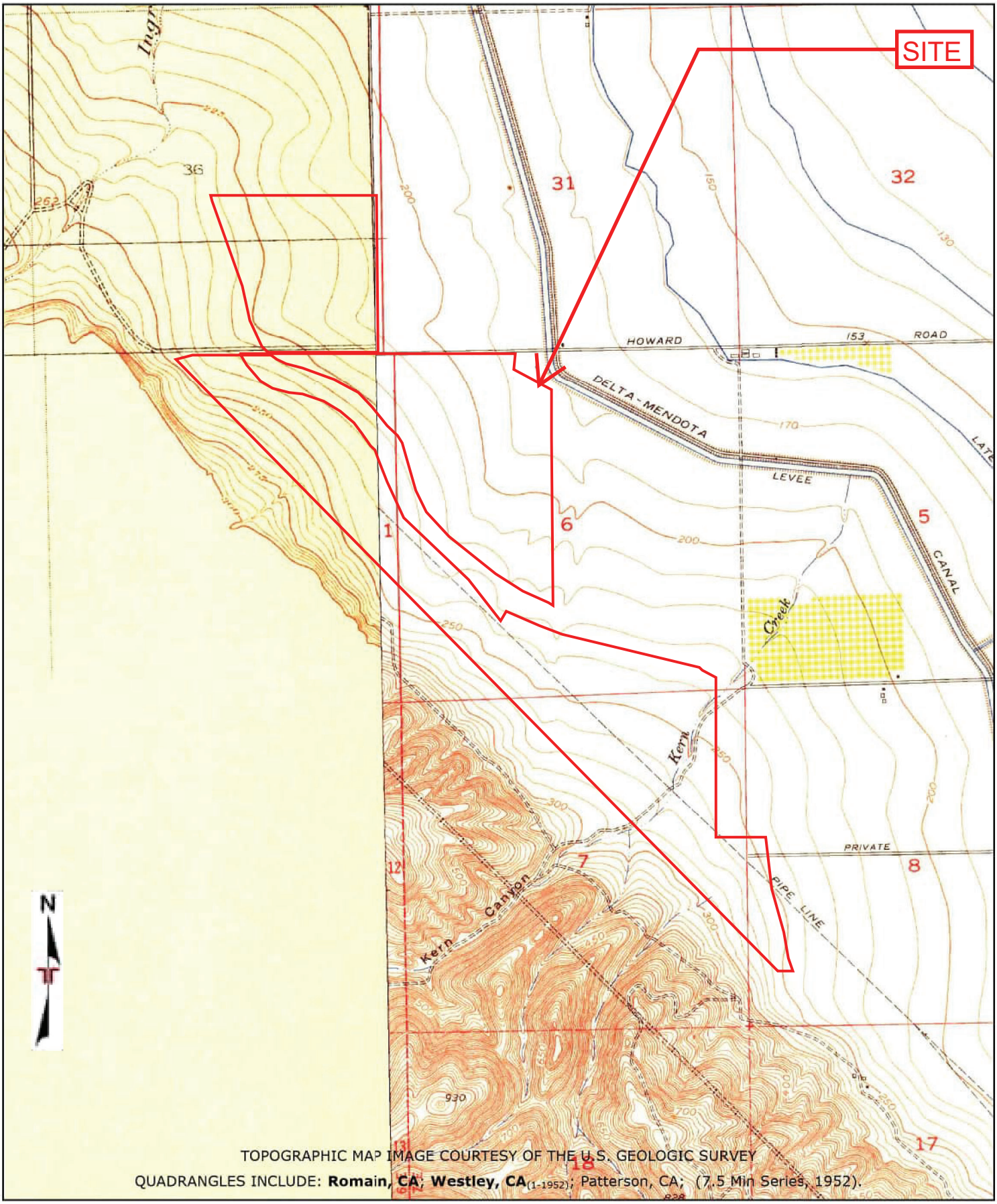
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (1942)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

Terracon

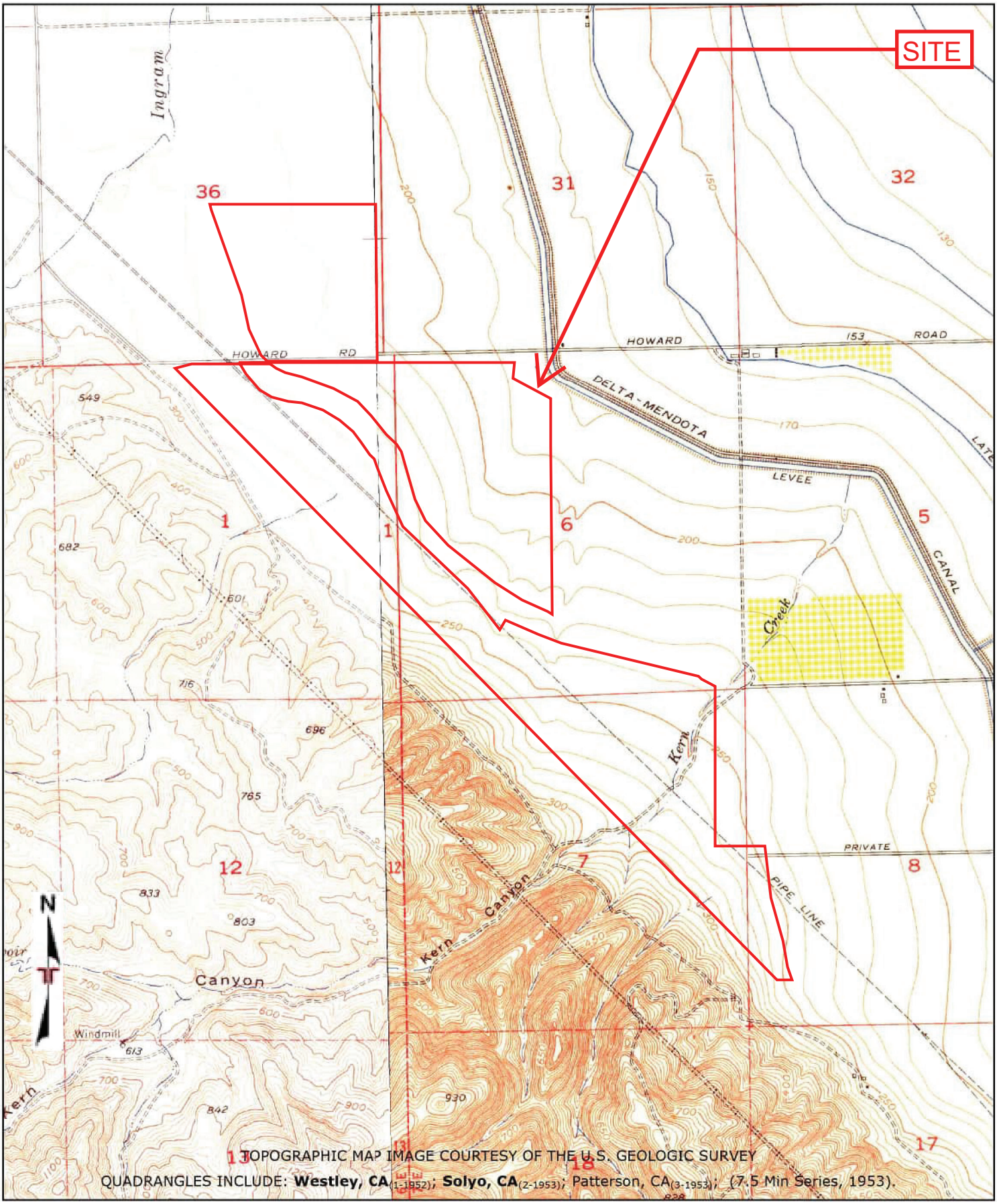
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (1952)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

Terracon

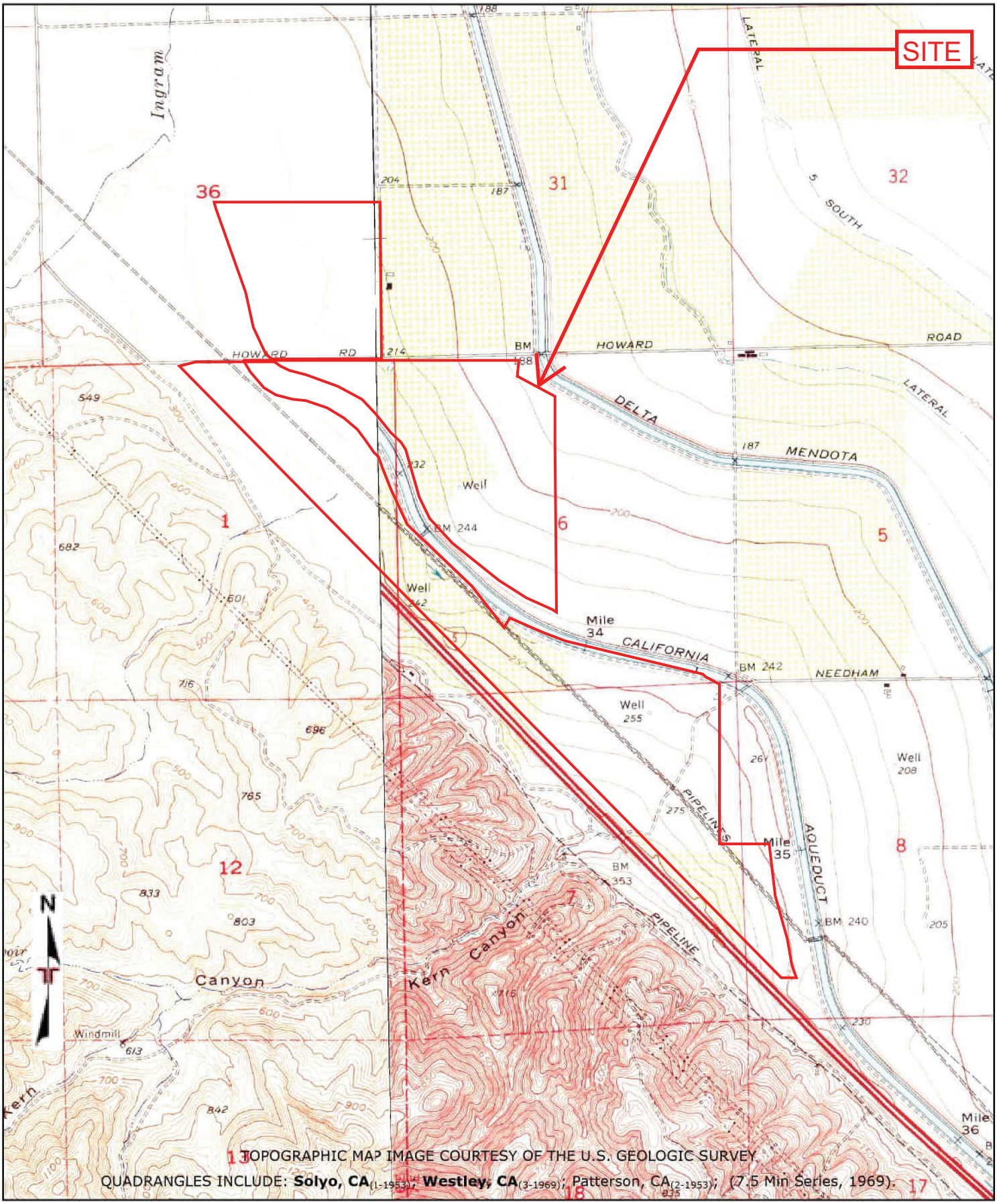
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (1953)

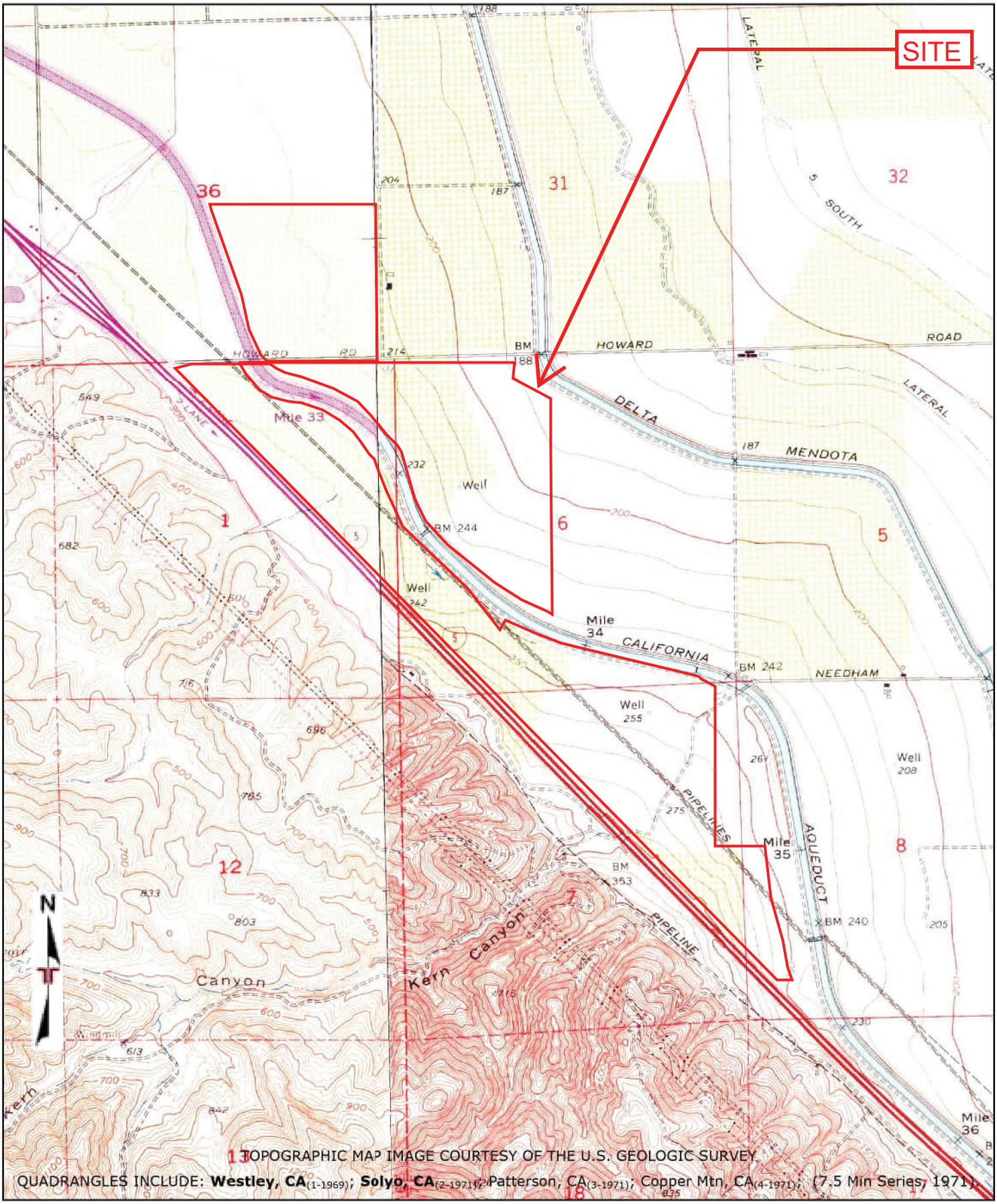
Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



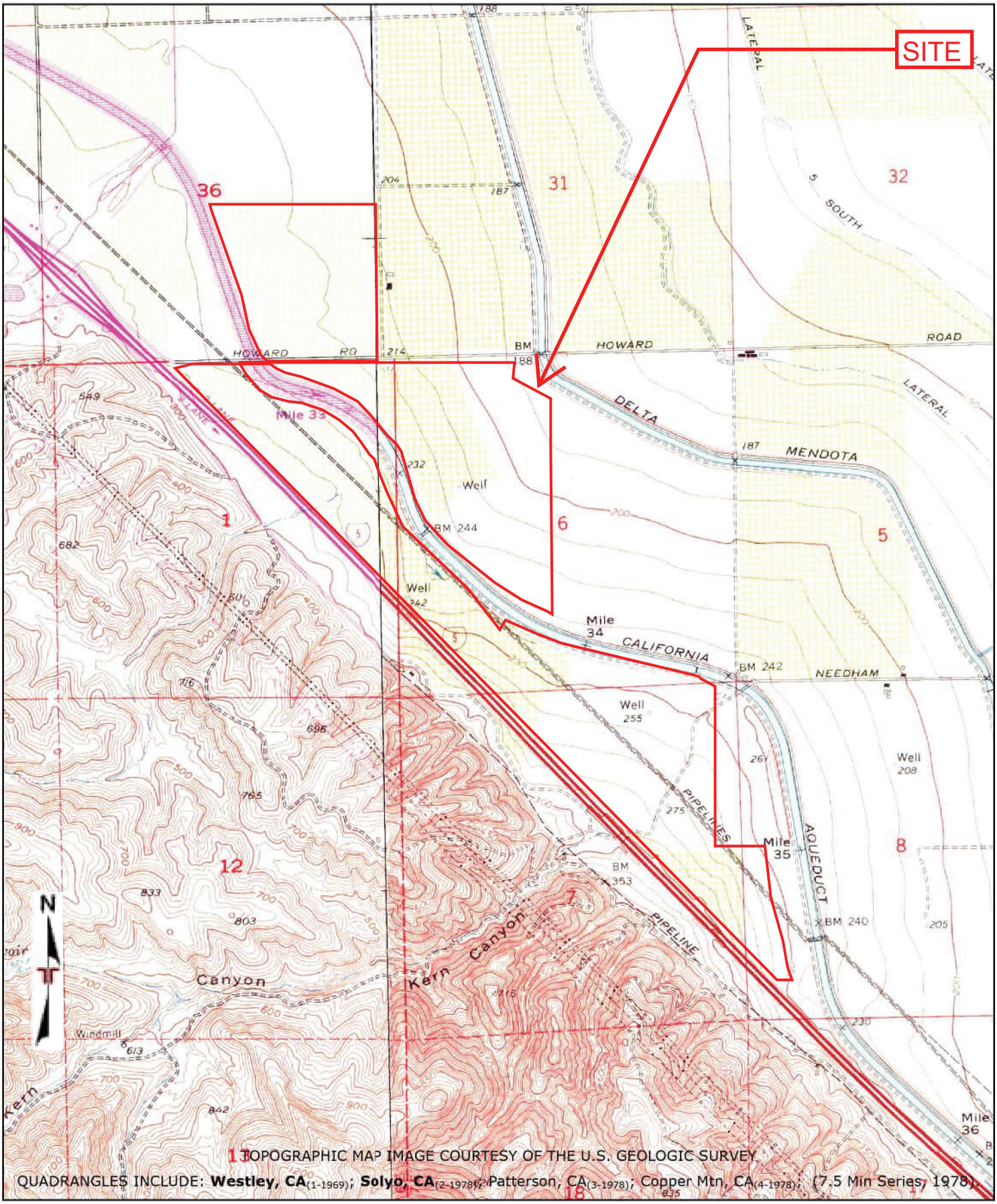
Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1969) Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	Appendix C
Drawn By: ACB	**Scale:** 1" = 2000'			
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



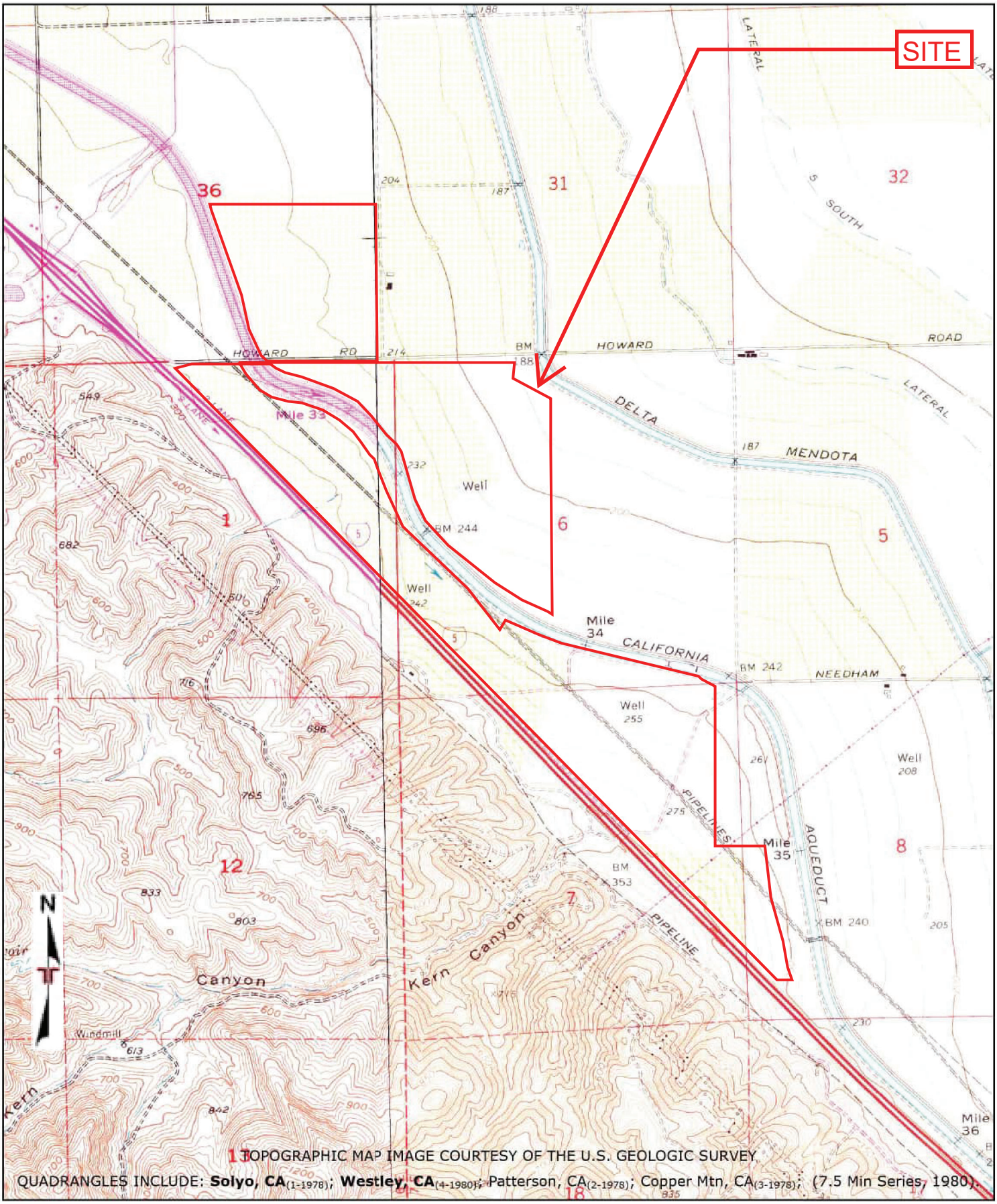
TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY

QUADRANGLES INCLUDE: **Westley, CA**(1-1969); **Solyo, CA**(2-1971); Patterson, CA(3-1971); Copper Mtn, CA(4-1971); (7.5 Min Series, 1971).

Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1971) Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	Appendix C
Drawn By: ACB	**Scale:** 1" = 2000'			
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1978) Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	Appendix C
Drawn By: ACB	**Scale:** 1" = 2000'			
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY

QUADRANGLES INCLUDE: **Solyo, CA**(1-1978); **Westley, CA**(4-1980); Patterson, CA(2-1978); Copper Mtn, CA(3-1978); (7.5 Min Series, 1980).

Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

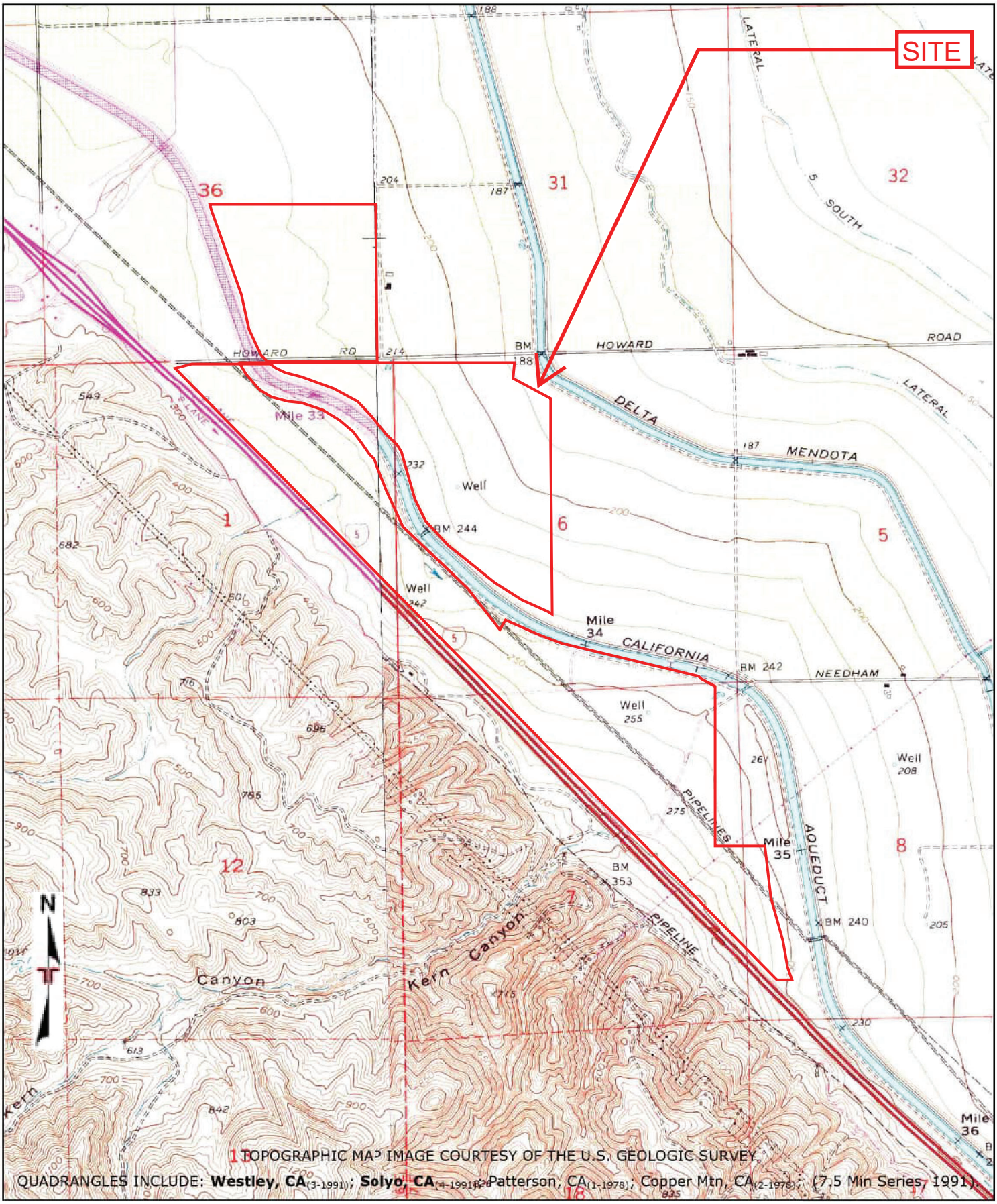
Terracon
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (1980)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

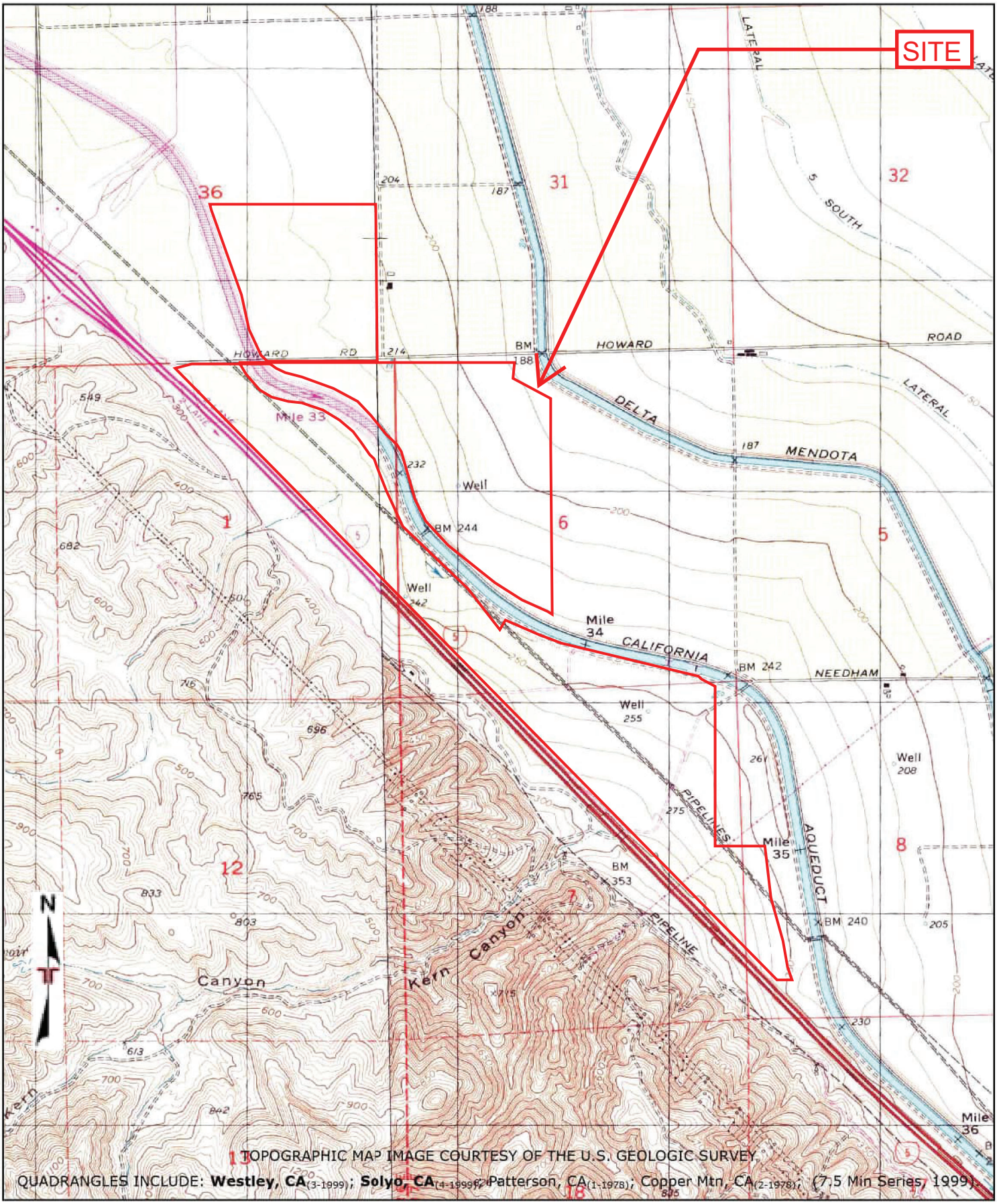
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TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY

QUADRANGLES INCLUDE: **Westley, CA**(3-1991); **Solyo, CA**(4-1991); Patterson, CA(1-1978); Copper Mtn, CA(2-1978); (7.5 Min Series, 1991).

Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (1991) Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	Appendix C
Drawn By: ACB	**Scale:** 1" = 2000'			
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY

QUADRANGLES INCLUDE: **Westley, CA**(3-1999); **Solyo, CA**(4-1999); Patterson, CA(1-1978); Copper Mtn, CA(2-1978); (7.5 Min Series, 1999).

Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

Terracon

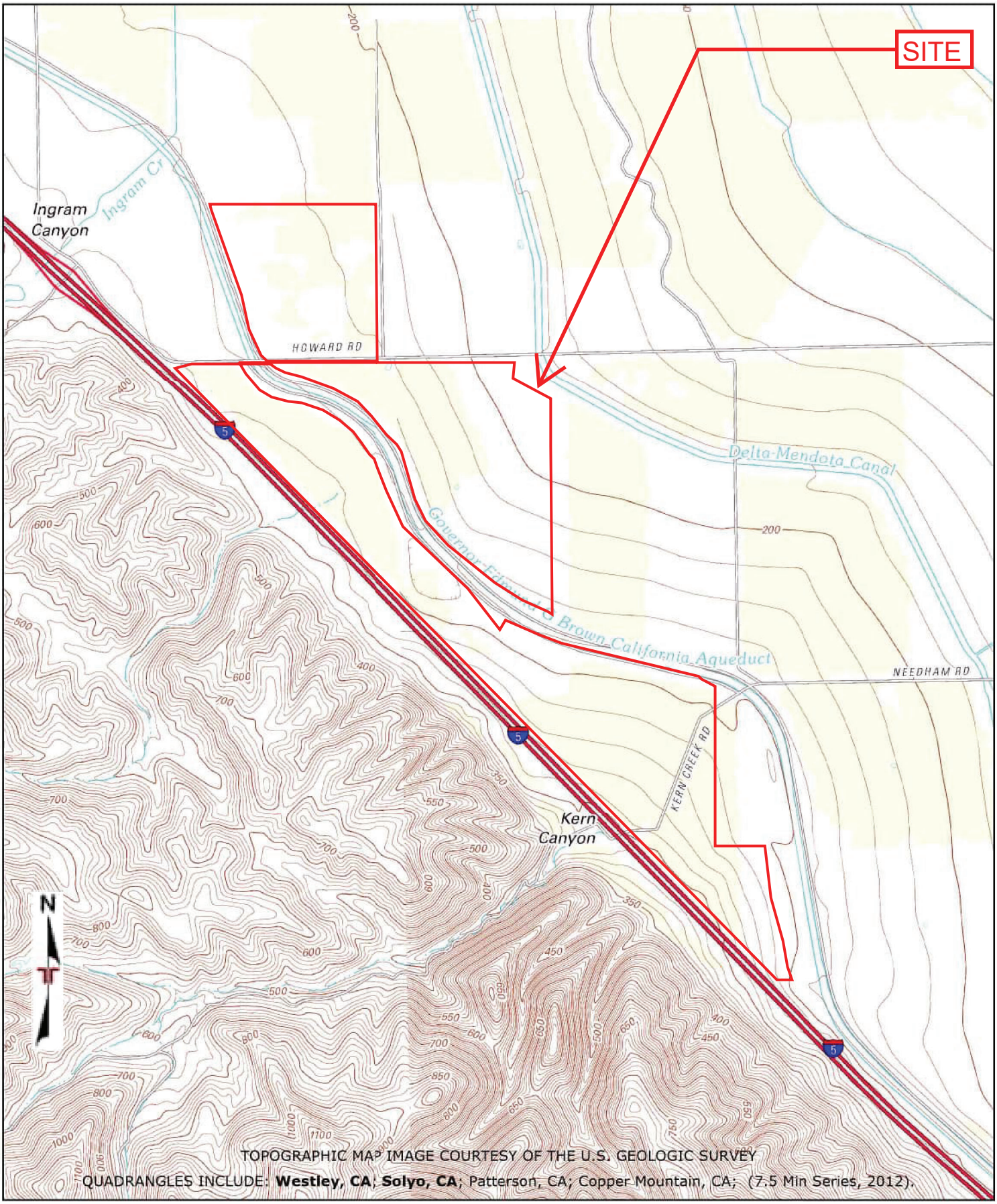
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (1999)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

Terracon

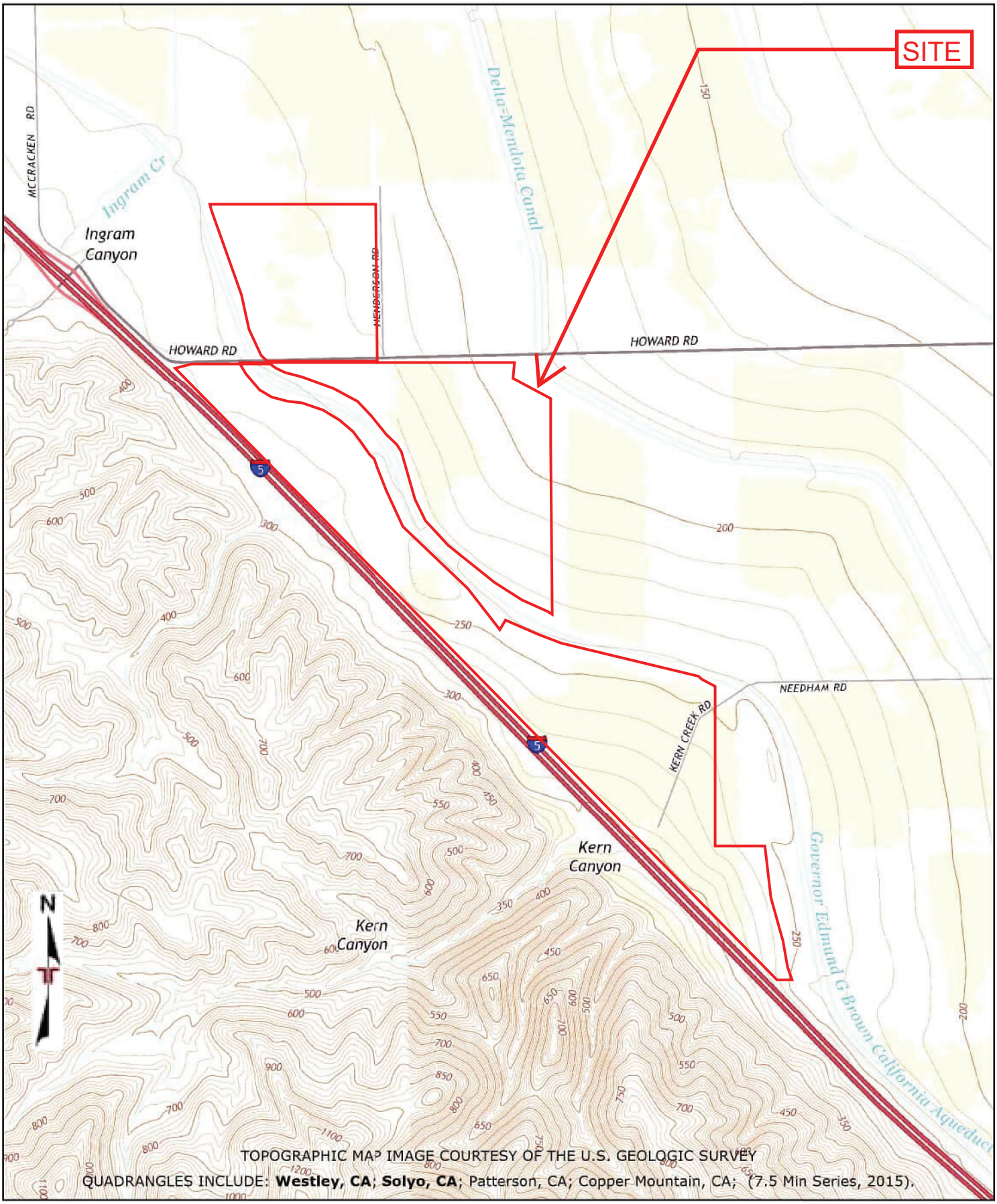
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (2012)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY
QUADRANGLES INCLUDE: **Westley, CA**; **Solyo, CA**; Patterson, CA; Copper Mountain, CA; (7.5 Min Series, 2015).

Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

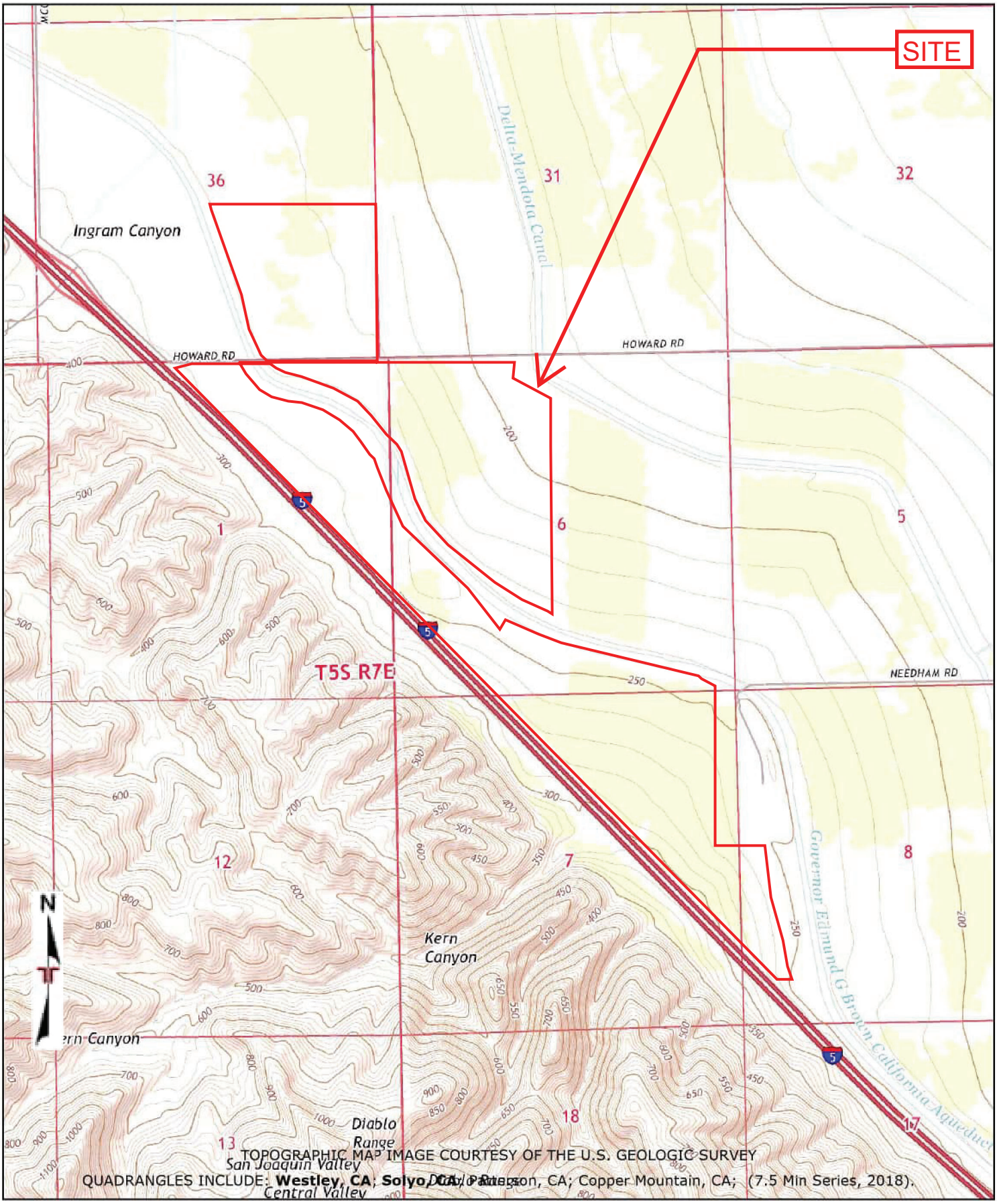
Terracon
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (2015)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY

QUADRANGLES INCLUDE: **Westley, CA**; **Solyo, CA**; Patterson, CA; Copper Mountain, CA; (7.5 Min Series, 2018).

Project Manager: SMB	**Project No:** 49427
Drawn By: ACB	**Scale:** 1" = 2000'
Checked By: CAP	**File Name:** 26091602783
Approved By: CAP	**Date:** 2026-09-17

Terracon

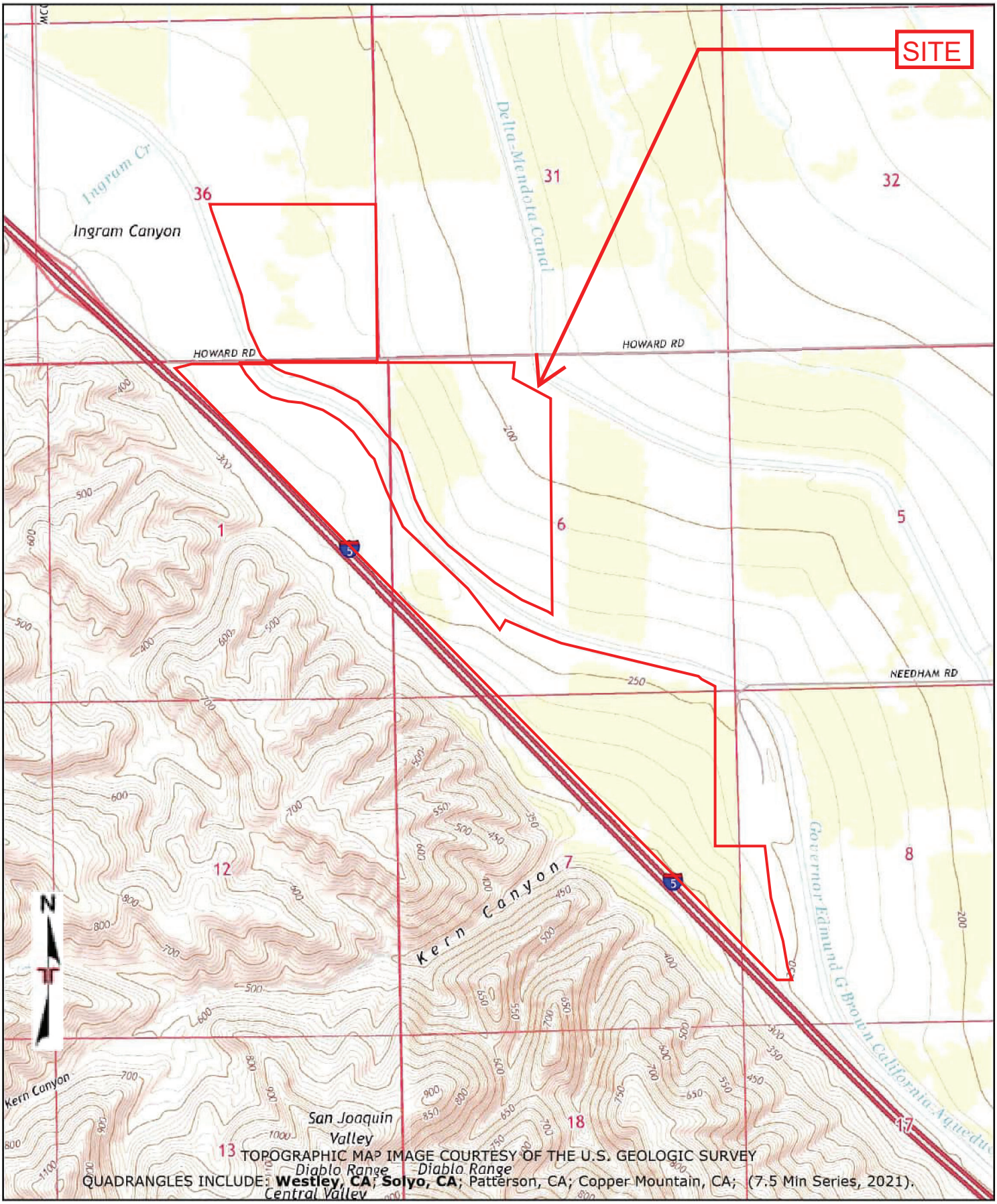
50 Goldenland Crt Suite 100
Sacramento, California 95834

TOPOGRAPHIC MAP (2018)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGIC SURVEY

QUADRANGLES INCLUDE: **Westley, CA**; **Solyo, CA**; Patterson, CA; Copper Mountain, CA; (7.5 Min Series, 2021).

Project Manager: SMB	**Project No:** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	TOPOGRAPHIC MAP (2021) Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	Appendix C
Drawn By: ACB	**Scale:** 1" = 2000'			
Checked By: CAP	**File Name:** 26091602783			
Approved By: CAP	**Date:** 2026-09-17			

HISTORICAL AERIALS

Project Property: Hondeville Energy Center
3348 Howard Avenue
Patterson California 95363

Project No.: 49427

Requested By: Terracon

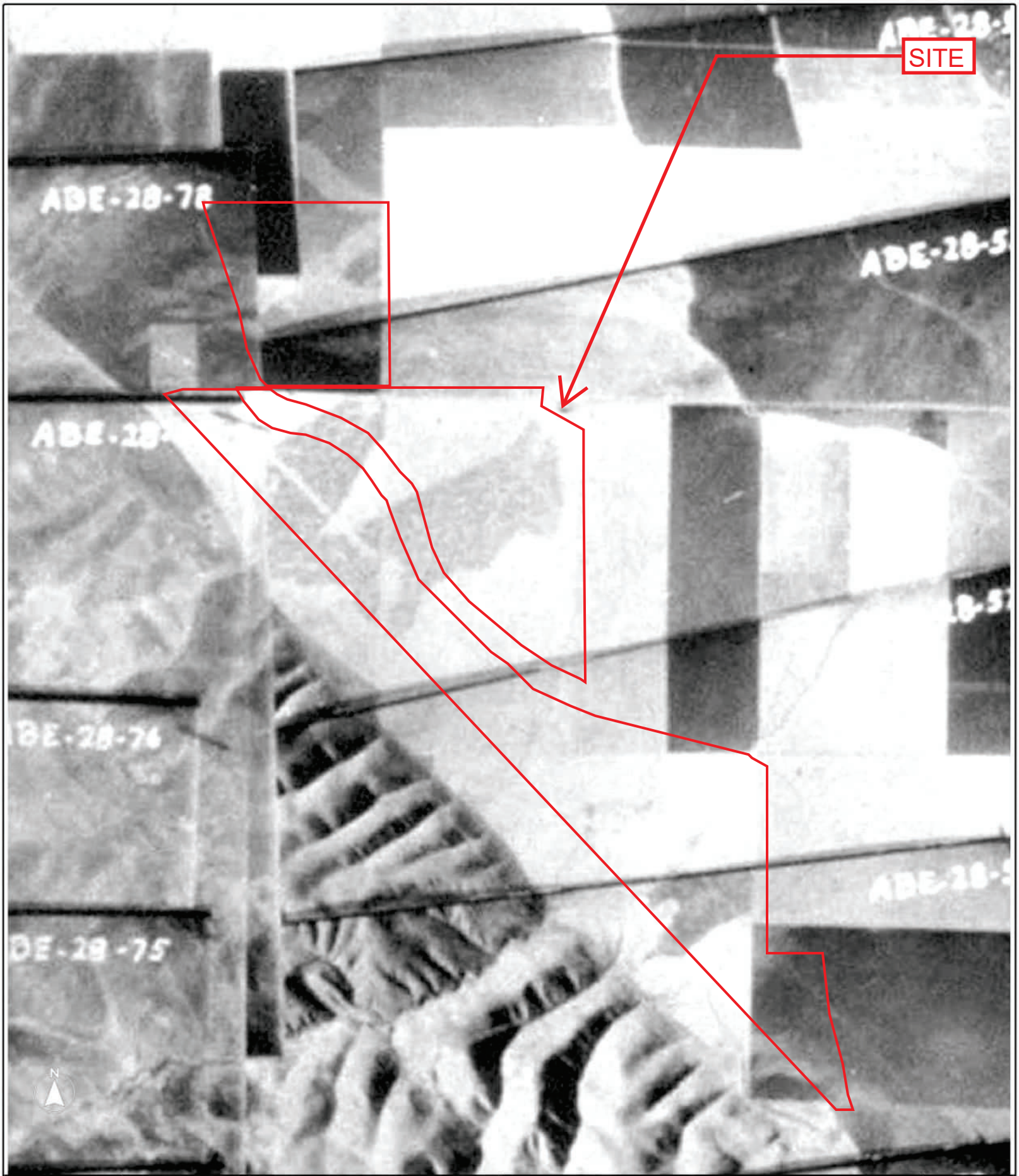
Order No: 26091602783

Date Completed: September 21,2026

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Environmental Risk Information Services
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Date	Source	Scale	Comments
1937	Agricultural Stabilization & Conserv. Service	1" = 1700'	Photo Index-Best Available
1950	Agricultural Stabilization & Conserv. Service	1" = 1700'	
1957	Agricultural Stabilization & Conserv. Service	1" = 1700'	
1967	United States Geological Survey	1" = 1700'	
1971	United States Geological Survey	1" = 1700'	
1982	United States Geological Survey	1" = 1700'	
1987	United States Geological Survey	1" = 1700'	Best Copy Available
1998	United States Geological Survey	1" = 1700'	
2004	United States Department of Agriculture	1" = 1700'	
2005	United States Department of Agriculture	1" = 1700'	
2006	United States Department of Agriculture	1" = 1700'	
2009	United States Department of Agriculture	1" = 1700'	
2010	United States Department of Agriculture	1" = 1700'	
2012	United States Department of Agriculture	1" = 1700'	
2014	United States Department of Agriculture	1" = 1700'	
2016	United States Department of Agriculture	1" = 1700'	
2018	United States Department of Agriculture	1" = 1700'	
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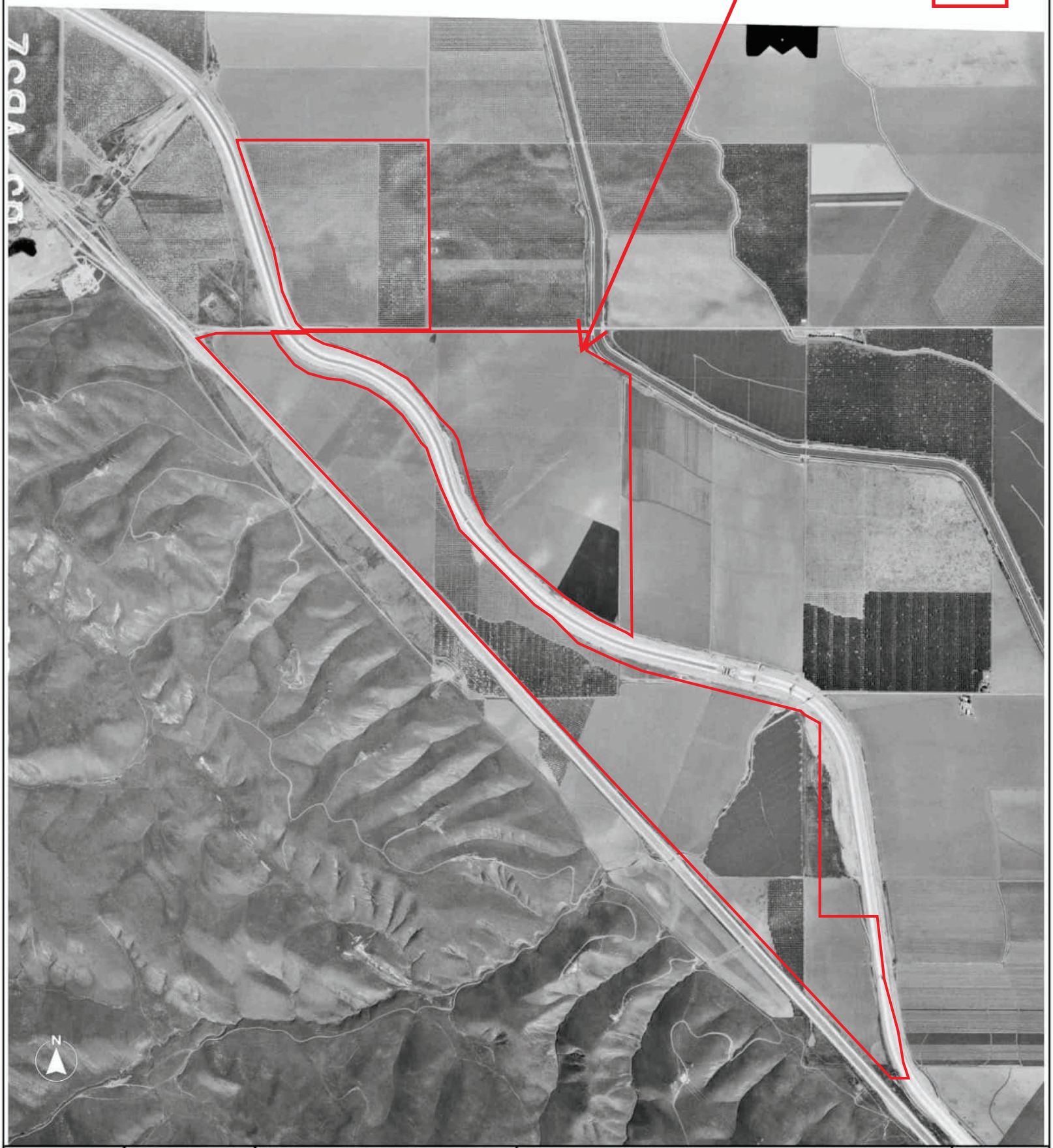
Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (1937 - ASCS)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (1950 - ASCS)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (1957 - ASCS)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427
Drawn by: ACB	**Scale:** 1" = 1700'
Checked by: CAP	**File Name:** 26091602783
Approved by: CAP	**Date:** 2026-09-21

Terracon

50 Goldenland Crt Suite 100
Sacramento, California 95834

AERIAL PHOTO (1967 - USGS)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

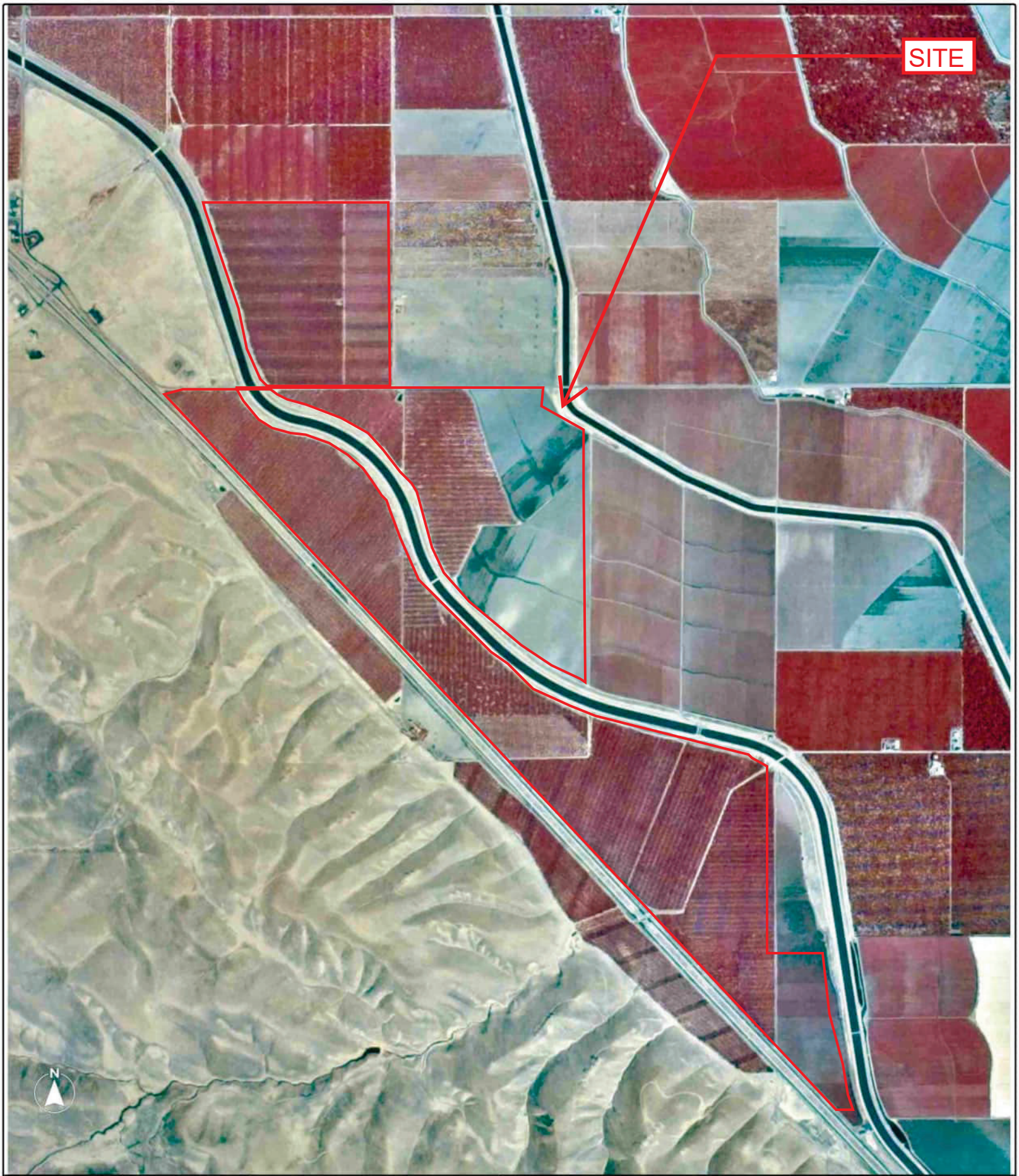
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Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (1971 - USGS)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (1982 - USGS)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (1987 - USGS)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (1998 - USGS)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2004 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427
Drawn by: ACB	**Scale:** 1" = 1700'
Checked by: CAP	**File Name:** 26091602783
Approved by: CAP	**Date:** 2026-09-21

Terracon
50 Goldenland Crt Suite 100
Sacramento, California 95834

AERIAL PHOTO (2005 - USDA)

Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

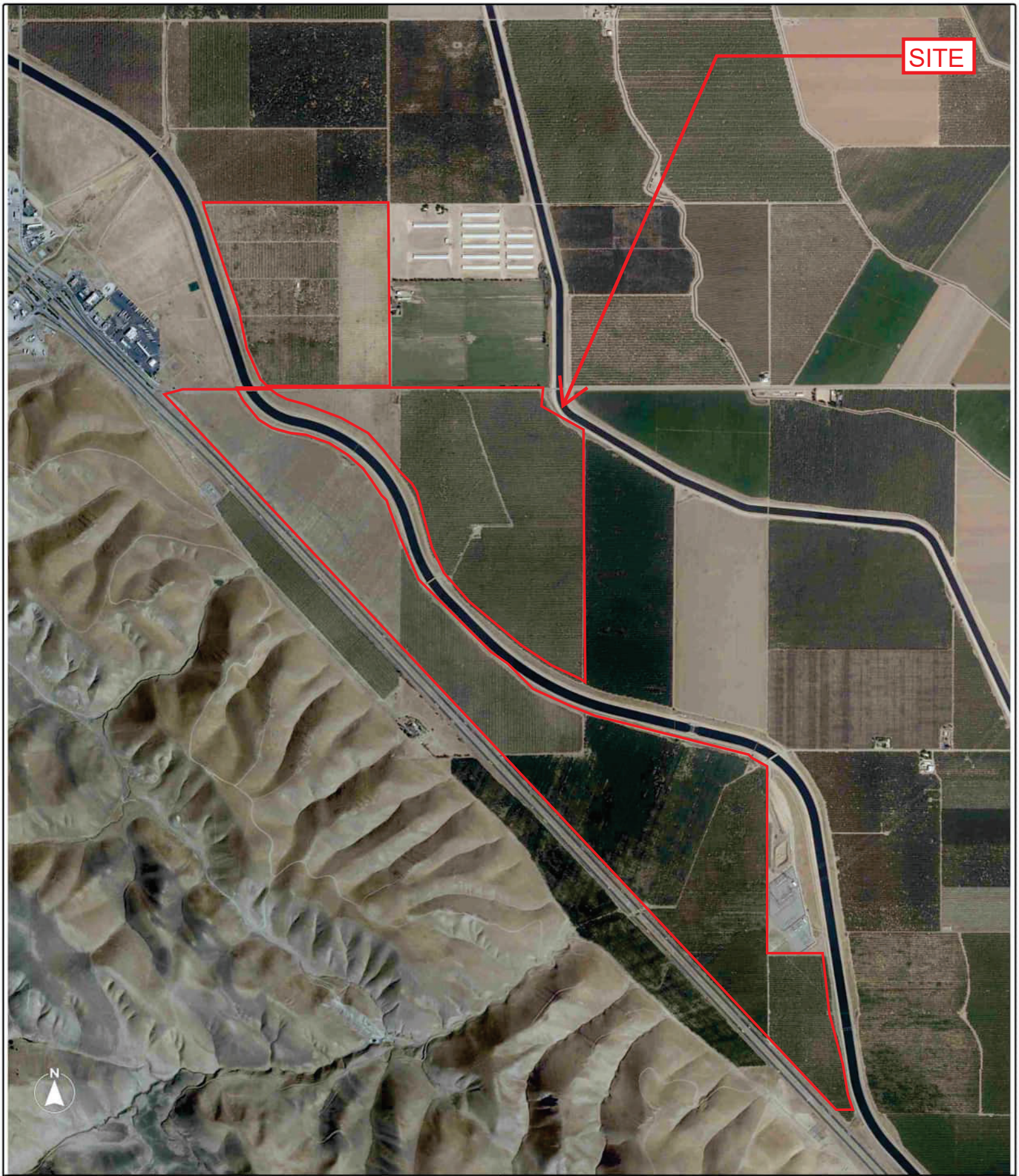
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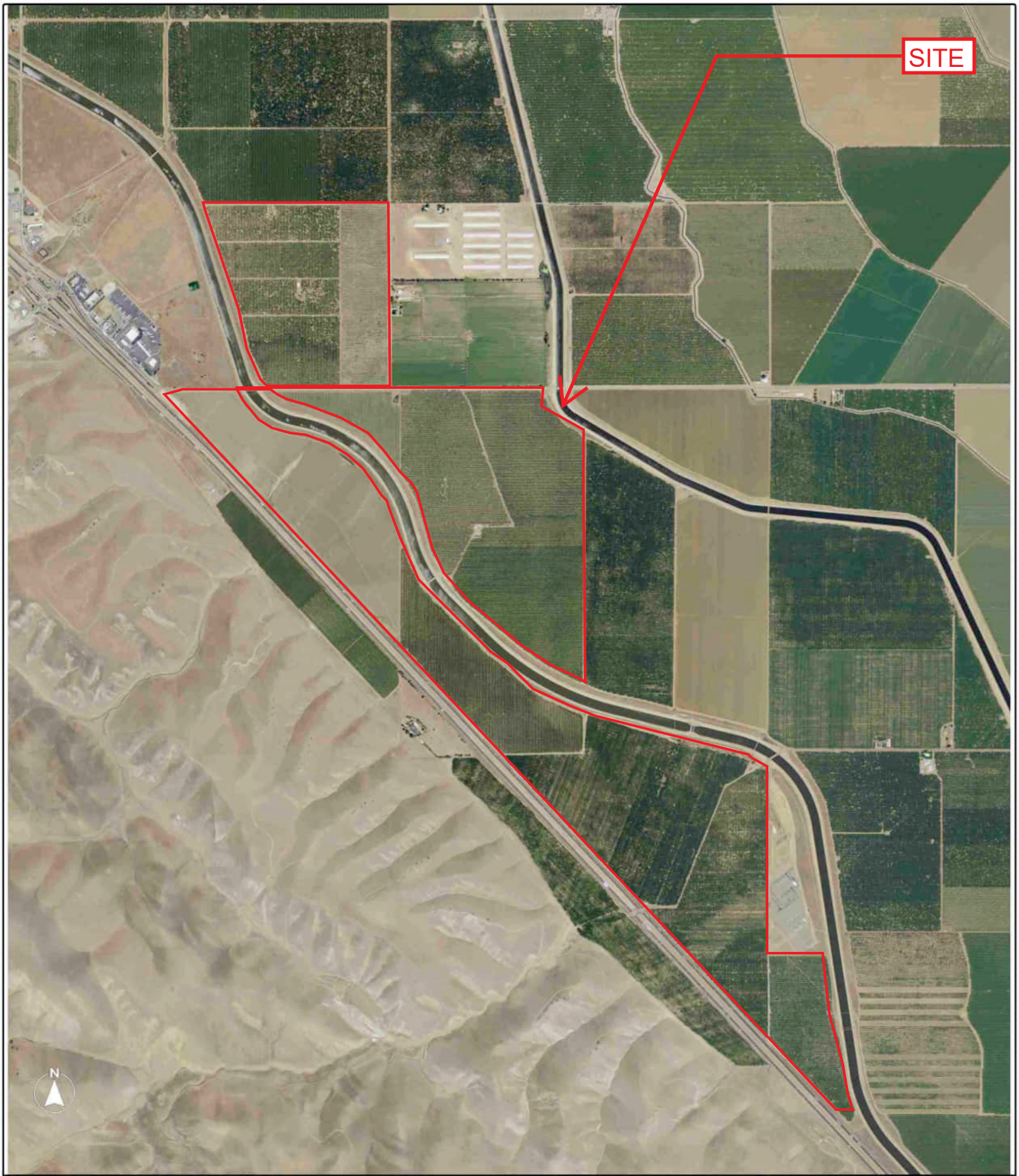
Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2006 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2009 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2010 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427
Drawn by: ACB	**Scale:** 1" = 1700'
Checked by: CAP	**File Name:** 26091602783
Approved by: CAP	**Date:** 2026-09-21

Terracon

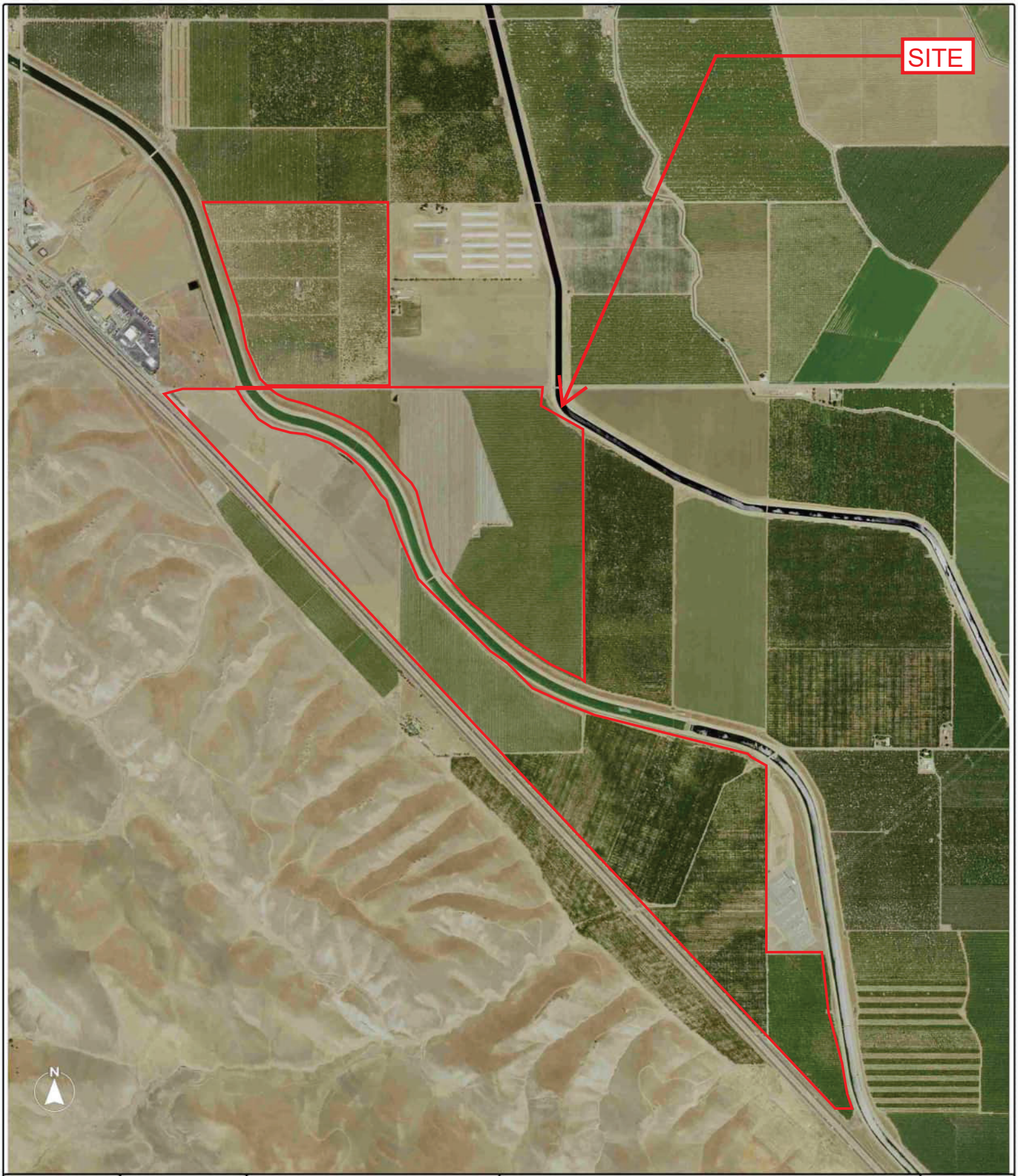
50 Goldenland Crt Suite 100
Sacramento, California 95834

AERIAL PHOTO (2012 - USDA)

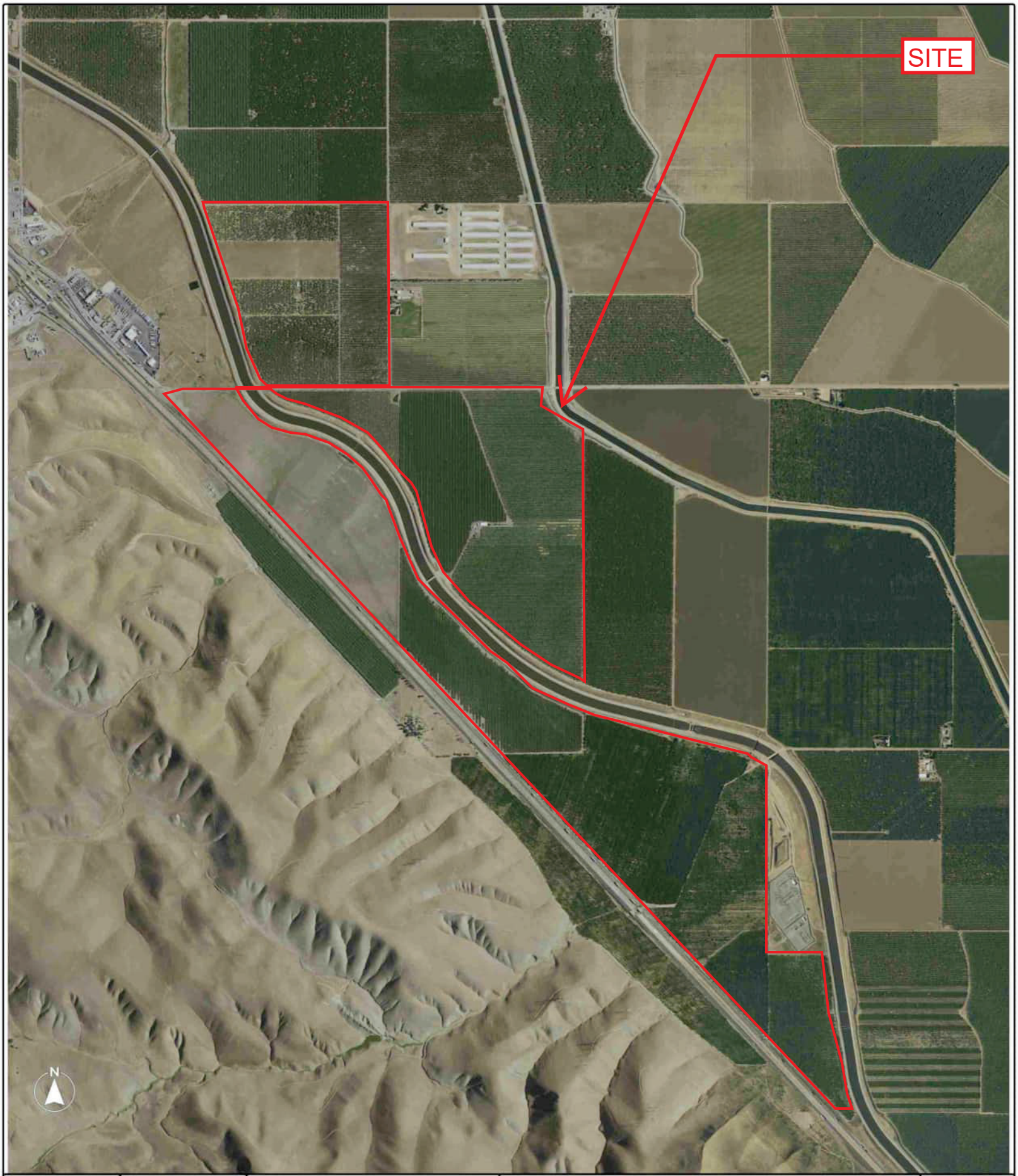
Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2014 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427
Drawn by: ACB	**Scale:** 1" = 1700'
Checked by: CAP	**File Name:** 26091602783
Approved by: CAP	**Date:** 2026-09-21

Terracon

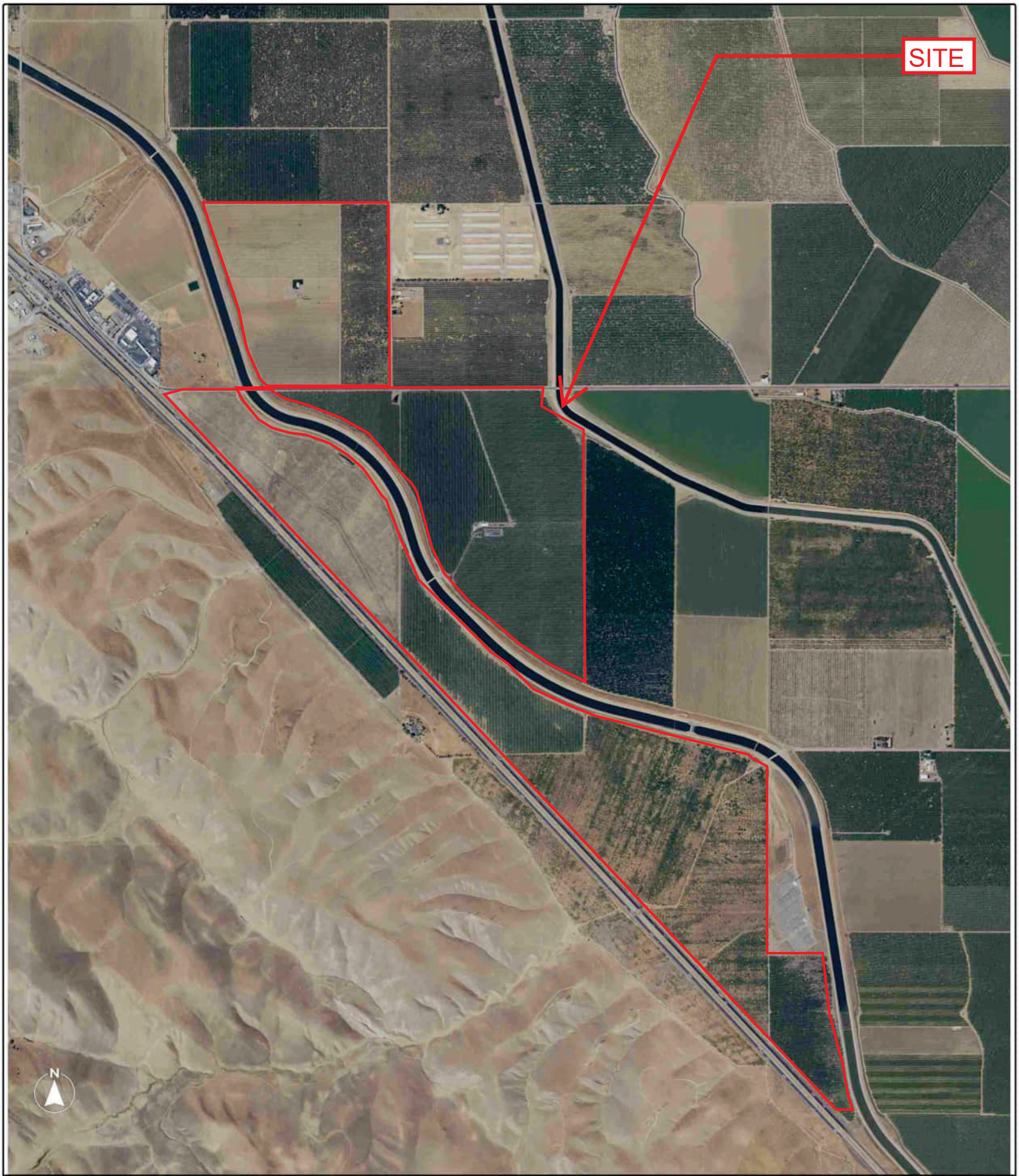
50 Goldenland Crt Suite 100
Sacramento, California 95834

AERIAL PHOTO (2016 - USDA)

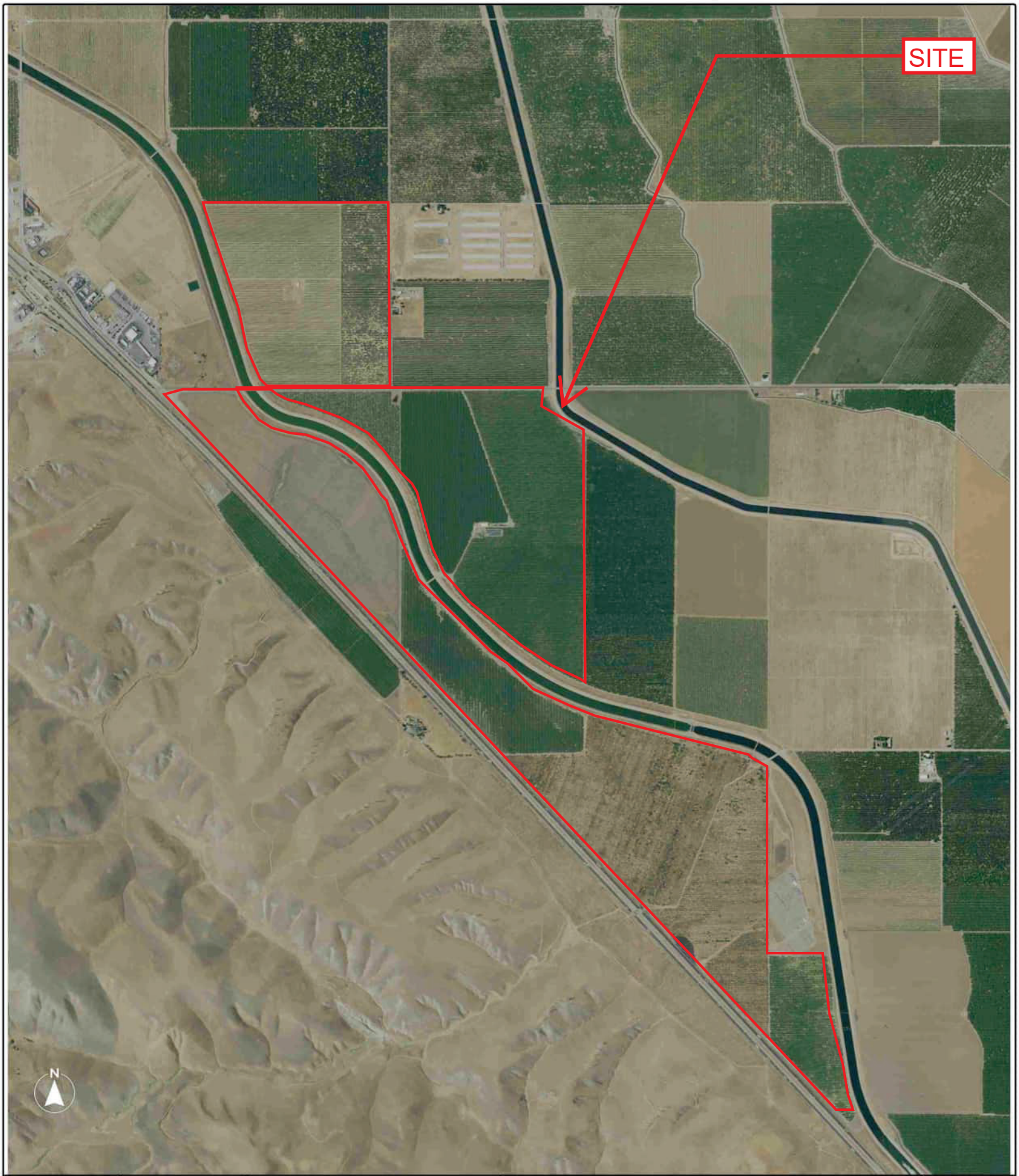
Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2018 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427
Drawn by: ACB	**Scale:** 1" = 1700'
Checked by: CAP	**File Name:** 26091602783
Approved by: CAP	**Date:** 2026-09-21

Terracon

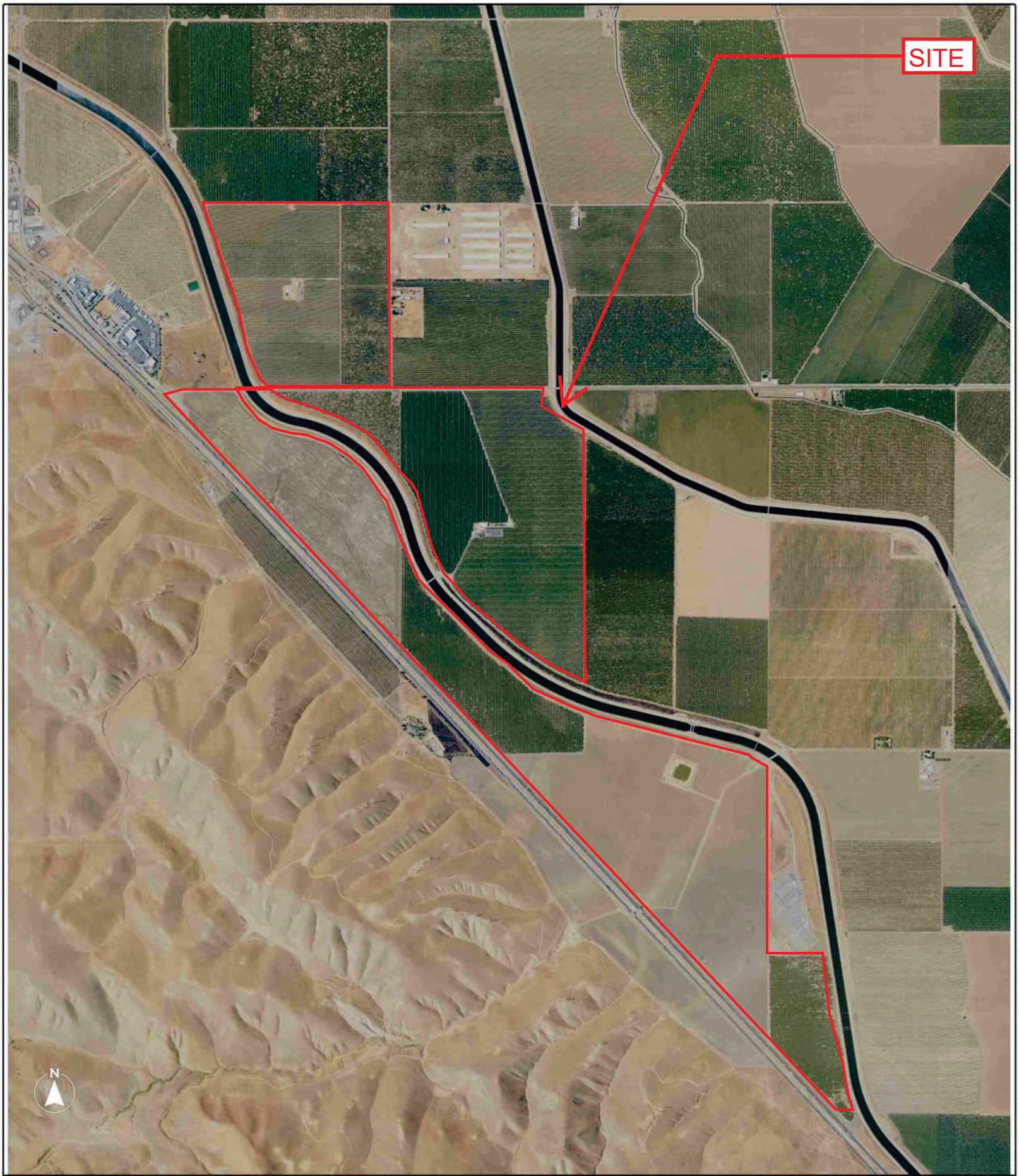
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Sacramento, California 95834

AERIAL PHOTO (2020 - USDA)

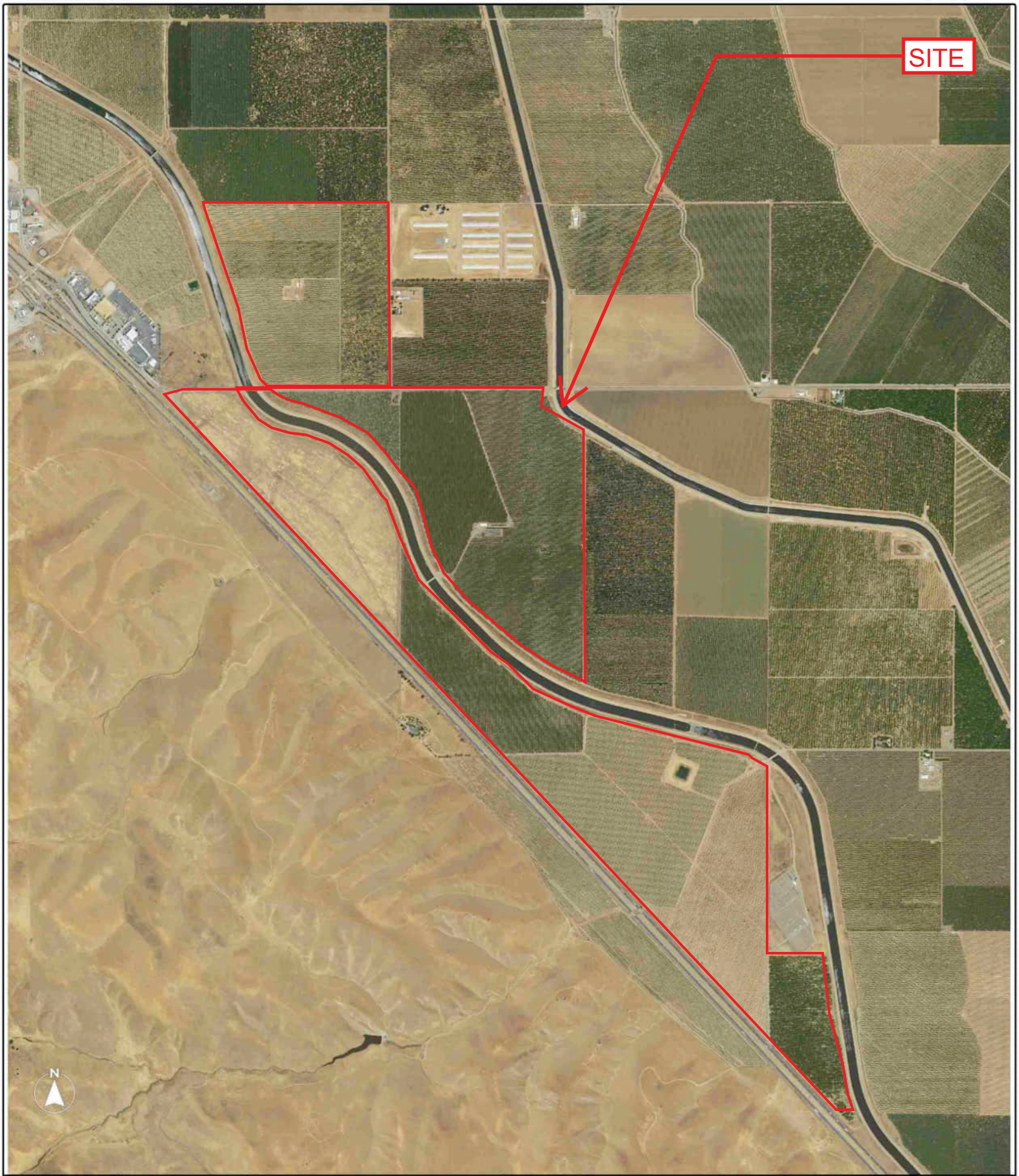
Hondeville Energy Center
3348 Howard Avenue
Patterson, California 95363

Appendix

C



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2022 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			



Project Manager: SMB	**Project No.** 49427	Terracon 50 Goldenland Crt Suite 100 Sacramento, California 95834	AERIAL PHOTO (2024 - USDA)	Appendix
Drawn by: ACB	**Scale:** 1" = 1700'		Hondeville Energy Center 3348 Howard Avenue Patterson, California 95363	C
Checked by: CAP	**File Name:** 26091602783			
Approved by: CAP	**Date:** 2026-09-21			

FIRE INSURANCE MAPS

Project Property: Hondeville Energy Center
3348 Howard Avenue Patterson CA 95363
Project No: 49427
Requested By: Terracon
Order No: 26091602783
Date Completed: September 17, 2026

Please note that no information was found for your site or adjacent properties.

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CITY DIRECTORY

Project Property:	*Hondeville Energy Center* *3348 Howard Avenue* *Patterson,CA 95363*
Project No:	*49427*
Requested By:	*Terracon*
Order No:	*26091602783*
Date Completed:	*September 24, 2026*

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September 24, 2026
RE: CITY DIRECTORY RESEARCH
3348 Howard Avenue
Patterson,CA 95363

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
2500-END of Howard Rd
ALL of Ingram Creek Rd
6250-END of McCracken Rd
2600-3050 of Needham Rd

Search Notes:
McCracken Rd is also known as 6250-END McCracken Rd in Vernalis.
Howard Rd is also known as 2500-END Howard Rd in Westley.
Ingram Creek Rd is also known as ALL Ingram Creek Rd in Westley.
Needham Rd is also known as ALL Needham Rd in Westley.
McCracken Rd is also known as ALL McCracken Rd in Westley.

Search Results Summary

Date	Source	Comment
2025	DIGITAL BUSINESS DIRECTORY	
2023	DIGITAL BUSINESS DIRECTORY	
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2011	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2003	DIGITAL BUSINESS DIRECTORY	
2000	HAINES	
1995	HAINES	
1990	HAINES	
1985	HAINES	
1980	HAINES	
1975	HAINES	
1972	HAINES	
1964	POLKS	

2025 HOWARD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2025 INGRAM CREEK RD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2025 MCCRACKEN RD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2025 NEEDHAM RD

SOURCE: DIGITAL BUSINESS DIRECTORY

0 **EUGENE BAYS**...*RESIDENTIAL*

2023 HOWARD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

4415 **DENNY'S WESTLEY**...*RESTAURANTS*
4415 **DICKEY'S BARBECUE PIT**...*FOODS-CARRY OUT*
4415 **DICKEY'S BARBECUE PIT**...*RESTAURANTS*
4415 **JOE'S TIRE LUBE**...*TIRE-DEALERS-RETAIL*
4415 **JOE'S TRAVEL PLAZA**...*ALTERNATIVE FUELS*
4415 **JOE'S TRAVEL PLAZA**...*TRUCK STOPS & PLAZAS*
4415 **KGS DHOOT ASSOC INC**...*ATTORNEYS*
4415 **SUNNY TRUCK & RV WASH**...*CAR WASHING & POLISHING*
4415 **SUNNY TRUCK RV WASH**...*CAR WASHING & POLISHING*
4437 **CARL'S JR**...*RESTAURANTS*
4437 **CARL'S JR/GREEN BURRITO**...*RESTAURANTS*
4507 **76**...*SERVICE STATIONS-GASOLINE & OIL*
4507 **WESTLEY STAR**...*SERVICE STATIONS-GASOLINE & OIL*
4525 **HOLIDAY INN EXPRESS**...*HOTELS & MOTELS*
4525 **HOLIDAY INN EXPRESS**...*ECOMMERCE*
4549 **FOOD MART**...*CONVENIENCE STORES*
4549 **WESTLEY CHEVRON**...*SERVICE STATIONS-GASOLINE & OIL*
4561 **MC DONALD'S**...*RESTAURANTS*
4561 **MC DONALD'S**...*FOODSCARRY OUT*

2023 INGRAM CREEK RD

SOURCE: DIGITAL BUSINESS DIRECTORY

4501 **PRECISION DIESEL**...*TRUCK-REPAIRING & SERVICE*
4502 **INGRAM CREEK RESTAURANT**...*RESTAURANTS*
4549 **GAWFCO ENTERPRISES INC**...*NONCLASSIFIED ESTABLISHMENTS*
4549 **GAWFCO ENTERPRISES INC**...*SERVICE STATIONS-GASOLINE & OIL*
4549 **WESTLEY SHELL STATION**...*SERVICE STATIONS-GASOLINE & OIL*

2023 MCCRACKEN RD

SOURCE: DIGITAL BUSINESS DIRECTORY

7051 **TRIANGLE TRUCK STOP**...*TRUCK STOPS & PLAZAS*
7100 **ECONO LODGE**...*HOTELS & MOTELS*
7100 **EXECUTIVE INN**...*HOTELS & MOTELS*
7115 **MOTEL 6**...*HOTELS & MOTELS*
7115 **U-HAUL NEIGHBORHOOD DEALER**...*TRUCK RENTING & LEASING*
7154 **ANTOJITOS MEXICANOS**...*RESTAURANTS*
7154 **SUBWAY**...*RESTAURANTS*
7501 **WESTLEY TRAVEL PLAZA**...*TRUCK STOPS & PLAZAS*

2023 NEEDHAM RD

SOURCE: DIGITAL BUSINESS DIRECTORY

0 **EUGENE BAYS**...*RESIDENTIAL*
3036 **EUGENE BAYS RANCH**...*RANCHES*
3036 **EUGENE BAYS RANCH**...*STABLES*

2020 HOWARD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

4415 **DENNY'S WESTLEY**...*RESTAURANTS*
4415 **DICKEY'S BARBECUE PIT**...*RESTAURANTS*
4415 **JOE'S TIRE LUBE**...*TIRE-DEALERS-RETAIL*
4415 **JOE'S TRAVEL PLAZA**...*ALTERNATIVE FUELS*
4415 **JOE'S TRAVEL PLAZA**...*TRUCK STOPS & PLAZAS*
4415 **SUNNY TRUCK RV WASH**...*CAR WASHING & POLISHING*
4415 **SUNNY TRUCK & RV WASH**...*CAR WASHING & POLISHING*
4437 **CARL'S JR**...*RESTAURANTS*
4437 **CARL'S JR/GREEN BURRITO**...*RESTAURANTS*
4507 **76**...*SERVICE STATIONS-GASOLINE & OIL*
4507 **WESTLEY STAR**...*SERVICE STATIONS-GASOLINE & OIL*
4525 **HOLIDAY INN EXPRESS**...*HOTELS & MOTELS*
4525 **HOLIDAY INN EXPRESS**...*ECOMMERCE*
4549 **FOOD MART**...*CONVENIENCE STORES*
4549 **WESTLEY CHEVRON**...*SERVICE STATIONS-GASOLINE & OIL*
4561 **MC DONALD'S**...*RESTAURANTS*
4561 **MC DONALD'S**...*FOODSCARRY OUT*

2020 INGRAM CREEK RD

SOURCE: DIGITAL BUSINESS DIRECTORY

4501 **PRECISION DIESEL**...*TRUCK-REPAIRING & SERVICE*
4502 **INGRAM CREEK RESTAURANT**...*RESTAURANTS*
4549 **GAWFCO ENTERPRISES INC**...*NONCLASSIFIED ESTABLISHMENTS*
4549 **WESTLEY SHELL STATION**...*SERVICE STATIONS-GASOLINE & OIL*

2020 MCCRACKEN RD

SOURCE: DIGITAL BUSINESS DIRECTORY

7051 **TRIANGLE TRUCK STOP**...*TRUCK STOPS & PLAZAS*
7100 **ECONO LODGE**...*HOTELS & MOTELS*
7100 **ECONO LODGE-WESTLEY**...*HOTELS & MOTELS*
7115 **MOTEL 6**...*HOTELS & MOTELS*
7115 **U-HAUL NEIGHBORHOOD DEALER**...*TRUCK RENTING & LEASING*
7144 **DAYS INN BY WYNDHAM WESTLEY**...*HOTELS & MOTELS*
7144 **DAYS INN-WESTLEY**...*ECOMMERCE*
7144 **DAYS INN-WESTLEY**...*HOTELS & MOTELS*
7154 **ANTOJITOS**...*RESTAURANTS*
7154 **ANTOJITOS MEXICANOS**...*RESTAURANTS*
7154 **SUBWAY**...*RESTAURANTS*
7501 **WESTLEY TRAVEL PLAZA**...*TRUCK STOPS & PLAZAS*

2020 NEEDHAM RD

SOURCE: DIGITAL BUSINESS DIRECTORY

3036 **EUGENE BAYS RANCH**...*RANCHES*
3036 **EUGENE BAYS RANCH**...*STABLES*

2016 HOWARD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

4415 **A-1 QUALITY TRUCK WASH**...*CAR WASHING & POLISHING*
4415 **DENNY'S WESTLEY**...*RESTAURANTS*
4415 **JOE'S TRAVEL PLAZA**...*TRUCK STOPS & PLAZAS*
4415 **SUNNY TRUCK & RV WASH**...*CAR WASHING & POLISHING*
4437 **CARL'S JR**...*RESTAURANTS*
4507 **WESTLEY STAR**...*SERVICE STATIONS-GASOLINE & OIL*
4525 **HOLIDAY INN EXPRESS**...*HOTELS & MOTELS*
4549 **WESTLEY CHEVRON**...*SERVICE STATIONS-GASOLINE & OIL*
4561 **MC DONALD'S**...*RESTAURANTS*

2016 INGRAM CREEK RD

SOURCE: DIGITAL BUSINESS DIRECTORY

4502 **INGRAM CREEK RESTAURANT**...*RESTAURANTS*
4549 **PRECISION DIESEL**...*TRUCK-REPAIRING & SERVICE*
4549 **WESTLEY SHELL STATION**...*SERVICE STATIONS-GASOLINE & OIL*
4549 **WESTLEY SHELL STATION**...*ALTERNATIVE FUELS*

2016 MCCRACKEN RD

SOURCE: DIGITAL BUSINESS DIRECTORY

7003 **J C FARM**...*FARMS*
7051 **TRIANGLE TRUCK STOP**...*TRUCK STOPS & PLAZAS*
7100 **ECONO LODGE**...*HOTELS & MOTELS*
7143 **ATM**...*AUTOMATED TELLER MACHINES*
7144 **DAYS INN-WESTLEY**...*HOTELS & MOTELS*
7154 **ANTOJITOS MEXICANOS**...*RESTAURANTS*

2016 NEEDHAM RD

SOURCE: DIGITAL BUSINESS DIRECTORY

3036 **EUGENE BAYS RANCH**...*RANCHES*

2011 HOWARD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

2601 **D GARCIA**...*RESIDENTIAL*
2601 **MANUEL GARCIA**...*RESIDENTIAL*
3565 **SUE HENDERSON**...*RESIDENTIAL*

2011 INGRAM CREEK RD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2011 MCCRACKEN RD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2011 NEEDHAM RD

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2008 HOWARD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

2601 **FERNANDO & DEBRA LOMELI**...*RESIDENTIAL*
2602 **ROGELIO & MARIA L VARGAS**...*RESIDENTIAL*

2008 INGRAM CREEK RD

SOURCE: DIGITAL BUSINESS DIRECTORY

0 **PRECISION DIESEL**...*TRUCK SERV/REPAIR*

2008 MCCRACKEN RD

SOURCE: DIGITAL BUSINESS DIRECTORY

7115 **DHOLAKIA HIREN**...*RESIDENTIAL*

2008 NEEDHAM RD

SOURCE: DIGITAL BUSINESS DIRECTORY

0 **EUGENE BAYS**...*VEGETABLE/MELON FARM*
0 **EUGENE BAYS RANCH**...*GEN LIVESTOCK FARMS*
0 **HAROLD ARAMBEL**...*RESIDENTIAL*

2003 HOWARD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

2602 **ROGELIO L & MARIA VARGAS**...*RESIDENTIAL*
3565 **HENDERSON & HENDERSON**...*NAUTICAL REPAIR SERVICES*
4437 **CARL'S JR RESTAURANT**...*STEAK AND BARBECUE RESTAURANTS*
4525 **HOLIDAY INN**...*MOTELS*
4548 **WESTLEY CHEVRON**
4561 **MC DONALD'S**...*STEAK AND BARBECUE RESTAURANTS*

2003 INGRAM CREEK RD

SOURCE: DIGITAL BUSINESS DIRECTORY

4501 **PRECISION DIESEL**

2003 MCCRACKEN RD

SOURCE: DIGITAL BUSINESS DIRECTORY

7051 **A-1 TRUCK WASH**
7051 **WESTLEY TRIANGLE TRUCK STOP**
7100 **ECONO LODGE**...*MOTELS*
7115 **SUPER 8 MOTEL**...*MOTELS*
7125 **BOBBY RAY'S RESTAURANT**...*STEAK AND BARBECUE RESTAURANTS*
7143 **CAL BP OIL**
7144 **ASHOK PATEL**...*RESIDENTIAL*
7144 **DAYS INN**...*MOTELS*

2003 NEEDHAM RD

SOURCE: DIGITAL BUSINESS DIRECTORY

0 **HAROLD ARAMBEL**...*RESIDENTIAL*
3036 **EUGENE BAYS RANCH**
3036 **EUGENE R BAYS**...*RESIDENTIAL*

2000 HOWARD RD

SOURCE: HAINES

0	**GOLDEN VALLEY HEALTH CENTER**
2400	**GREWAL DALVINDAR**
2400	**GREWAL HARPAL**
2601	**LOMELI DEBRA**
2601	**LOMELI FERNANDO**
2602	**VARGAS MARIA**
2602	**VARGAS ROGELIO L**
3565	**HENDERSON DAYMOND**
3565	**HENDERSON SUE**
4437	**CARLS JR**
4507	**WESTLEY BEACON**
4525	**HOLIDAY INN EXPRESS**
4548	**WESTLEY CHEVRON**
4561	**MCDONALD'S 13556**

2000 INGRAM CREEK RD

SOURCE: HAINES

4401	**XXXX**
4502	**XXXX**
4549	**MODSTO ENERGY CO INC**

2000 MCCRACKEN RD

SOURCE: HAINES

613	**BOGETTI ALBERT**
635	**BOGETTI BROS PACKING SHED**
2513	**FRIEDRICH PAUL E**
2800	**LUCE PATRICK**
3737	**PATELLO LEONARD**
3901	**PROFITO B J**
3901	**XXXX**
4939	**VILLAFANA FERNANDO JR**
4942	**RUIZ IMELDA**
4949	**RUIZ RAFAEL**
5012	**ALLARD FARMS**
5301	**BASRAI GARY**
5524	**GILBERT BUTCH**
6113	**MARTINEZ ANGEL S**
6115	**XXXX**
6131	**KOLDING KELLY**
6131	**XXXX**
6137	**XXXX**
7051	**A-1 TRUCK WASH**
7100	**RANDY JONES CONSTRUCTION**
7109	**XXXX**
7115	**SUPER 8 MOTEL**
7125	**BOBBY RAY'S RESTAURANT**
7143	**CAL B P OIL**
7144	**DAYS INN WESTLEY**
7154	**PEPPER TREE RESTAURANT**

2000 NEEDHAM RD

SOURCE: HAINES

0	**ARAMBEL HAROLD**
3036	**BAYS EUGENE RANCH**

1995 HOWARD RD

SOURCE: HAINES

2400	**PETTY DENNIS**
2601	**NOBLITT R L**
3565	**HENDERSON DAYMOND**
3565	**HENDERSON SUE**
4507	**KELLER EXXON**
4561	**MCDONALDS**

1995 INGRAM CREEK RD

SOURCE: HAINES

4502	**INGRAM CREEK COFFEE**
4549	**MODSTO ENERGY CO**
4549	**STEPHENS D K SCALE**
4549	**WESTLEY FUEL SERV**

1995 MCCRACKEN RD

SOURCE: HAINES

4942	**RUIZ IMELDA**
4942	**RUIZ RAFAEL**
4949	**B&K TRUCKING**
4949	**YAMAMOTO BOBBY**
4949	**YAMAMOTO FARMS**
5012	**ALLARD FARMS**
5524	**GILBERT BUTCH**
5524	**GILBERT SHARON**
5524	**VINTAGE GARAGE THE**
6113	**ANCIRA ROBERTO C**
6115	**XXXX**
6131	**XXXX**
7051	**GAS TRUCK WASH**
7115	**BUDGET INN**
7125	**GARDEN RESTAURANT**
7144	**DAYS INN WESTLEY**
7154	**FOSTER FREEZE**

1995 NEEDHAM RD

SOURCE: HAINES

0	**ARAMBEL HAROLD**
2525	**CHURCHILL GENE**
3036	**BAYS EUGENE RANCH**

1990 HOWARD RD

SOURCE: HAINES

0	HERNANDEZ RAMON
0	TABAR NATZ
661	VILLA DAVID
701	TREVINO FRANCISCO
737	HALE DELNO
1601	GOUBERT DAVE
1601	GOUBERT ERNEST
1636	HOVE R J FARMS
2601	NOBLITT R L
3566	HENDERSON DAYMOND
3566	HENDERSON SUE
3570	GOLDEN EAGLE FARMS
4507	KELLERS CHEVRON

1990 INGRAM CREEK RD

SOURCE: HAINES

0	FLBIN M J
0	OXFORD TIRE RCYCLNG
448	MOOSTO ENERGY CO
448	OXFORD TIRE RCYCLNG
448	STEPHENS D K SCALE
448	WESTLEY FUEL SERV
448	WESTLEY TRANGL INC

1990 MCCRACKEN RD

SOURCE: HAINES

0	TITUS AQUILA S
4949	B&K TRUCKING
4949	YAMAMOTO BOBBY
4949	YAMAMOTO FARMS
5012	ALLARD FARMS
5524	GILBERT BUTCH
5524	GILBERT SHARON
5524	VINTAGE GARAGE THE
6113	FILBIN ED
6113	GALLAGHER JOHN E
6113	SOTELO JORGE
6115	XXXX
7115	BUDGET INN
7115	DAY&NIGHT TOWING SV
7125	WESTLEY TRANGL REST
7125	WESTLEY TRANGL TIRE
7125	WESTLEY TRUCK STOP
7144	FIVE STAR INN
7154	FOSTER FREEZE

1990 NEEDHAM RD

SOURCE: HAINES

0	ARAMBEL HAROLD
0	CHURCHILL GENE
3036	BAYS EUGENE

1985 HOWARD RD

SOURCE: HAINES

0	**GOUBERT DAVE**
0	**HOVE R J FARMS**
0	**TABAR NATZ**
661	**VILLA DAVID**
737	**HALE DELNO**
1601	**GOUBERT ERNEST**
2601	**NOBLITT R L**
2601	**VINCENT FARMS**
3555	**ALVES A JR**
3555	**JONES CLIFFORD E**

1985 INGRAM CREEK RD

SOURCE: HAINES

0	**FILBIN ED**
0	**GELLERMAN BRUCE**
0	**WESTLEY FUEL SERV**

1985 MCCRACKEN RD

SOURCE: HAINES

0	B&K TRUCKING
0	BANKS GARY
0	PROFITO B J
0	SUPER 8 MOTELS
0	TITUS AQUILA S
0	TITUS DEWAYNE F JR
0	VERNALIS WAREHOUSE
0	WESTLEY TIRE REPAIR
0	WESTLEY TRNGL REST
0	WESTLEY TRUCK STOP
0	YAMAMOTO BOBBY
0	YAMAMOTO FARMS
613	BOGETTI ALBERT
707	BOGETTI GEO
2800	LUCE PATRICK
3737	PATELLO LEONARD
3901	PROFITO B J
5012	ALLARD FARMS
5524	XXXX
6113	VASQUEZ TAMMY

1985 NEEDHAM RD

SOURCE: HAINES

0	ARAMBEL HAROLD
3036	BAYS EUGENE

1980 HOWARD RD

SOURCE: HAINES

0	ALVES A
0	CO STANISLUS SUPR SC
0	GOUBERT DAVE
0	HOVE R J FARMS
0	TABAR NATZ
0	THOMPSON FARMS
661	VILLA DAVID
737	HALE DELNO
1601	GOUBERT ERNEST
1636	PINEDO RICHARD
2601	NOBLITT R L
3965	ALVES A JR
3965	JONES CLIFFORD E

1980 INGRAM CREEK RD

SOURCE: HAINES

0	FILBIN ED
0	OASIS THE
4549	BIG VALLEY AUTO PLZ
4700	HALSETH EMERALD

1980 MCCRACKEN RD

SOURCE: HAINES

0	**BANKS GARY**
0	**DUBOCE DOUG**
0	**LOZANO ARRELIO G**
0	**PARSON HARLEY**
0	**TITUS AQUILA S**
0	**TITUS DEWAYNE F JR**
5012	**ALLARD FARMS**
5524	**LOGAN MICHAEL**

1980 NEEDHAM RD

SOURCE: HAINES

0	**ARAMBEL HAROLD**
3036	**BAYS EUGENE**

1975 HOWARD RD

SOURCE: HAINES

0	**ALVES A**
0	**FRANK ALBERT**
0	**FRANK HENRY**
0	**GOUBERT DAVE**
0	**HOVE R J FARMS**
0	**LINDNER CHARLES**
0	**TABAR NATZ**
661	**VILLA DAVID**
737	**HALE DELNO**
1601	**GOUBERT ERNEST**
2601	**NOBLITT R L**
3565	**ALVES A JR**
3565	**JONES CLIFFORD E**

1975 INGRAM CREEK RD

SOURCE: HAINES

0	**FILBIN EO**
0	**OASIS THE**
4549	**BOKIDES M TEXACO**
4549	**TEXACO SV BOKIDES**
4700	**HALSETH EMERALD**

1975 MCCRACKEN RD

SOURCE: HAINES

0	**ALLARD FARMS**
0	**ALLARD LELAND**
0	**PARSON HARLEY**
0	**REISWIG GEORGE S**
0	**STEHLI FRANK**
0	**TITUS AQUILA S**
0	**TITUS DEWAYNE F JR**
7413	**INGRAM CREEK SERV**
7413	**LINDNER CHARLES**

1975 NEEDHAM RD

SOURCE: HAINES

0	**ARAMBEL HAROLD**
3036	**BAYS EUGENE**

1972 HOWARD RD

SOURCE: HAINES

0	**ALVES A**
0	**CARRELL J P**
0	**FRANK ALBERT**
0	**FRANK HENRY**
0	**MIGRANT HEALTH OFC**
0	**SUTHERLAND STEVEN**
0	**TABAR NATZ**
0	**VILLA DAVID**
737	**HALE DELNO**
1601	**GOUBERT ERNEST**
2601	**NOBBIT R L**
3565	**ALVES A JR**
3565	**JONES CLIFFORD E**

1972 INGRAM CREEK RD

SOURCE: HAINES

0	**FILBIN ED**
4549	**BIG 5 SERV STATION**
4700	**HALSETH EMERALD**

1972 MCCRACKEN RD

SOURCE: HAINES

0	**ALLARD GLENN MRS**
0	**ALVERNAZ TONY**
0	**MOORE JOHN**
0	**PARSON HARLEY**
0	**REYNA FLAVIO**
0	**TITUS AQUILA S**
7413	**INGRAM CREEK SERV**

1972 NEEDHAM RD

SOURCE: HAINES

0	**ARAMBEL HAROLD**
3036	**BAYS EUGENE**

1964 HOWARD RD

SOURCE: POLKS

STREET NOT LISTED

1964 INGRAM CREEK RD

SOURCE: POLKS

STREET NOT LISTED

1964 MCCRACKEN RD

SOURCE: POLKS

STREET NOT LISTED

1964 NEEDHAM RD

SOURCE: POLKS

STREET NOT LISTED

Phase I Environmental Site Assessment

Hondeville Energy Center

3348 Howard Road

Patterson, Stanislaus County, California

February 26, 2026 | Terracon Project No. NB257189

Prepared for:

Mid Valley Power
3111 Stone Avenue
Modesto, California

Prepared by:

Terracon Consultants, Inc.
Lodi, California

Terracon
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Terracon.com
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Environmental
Geotechnical
Materials

902 Industrial Way
Lodi, California 95240-3106
P 209-367-3701
F 209-333-8303
Terracon.com

February 26, 2026

Mid Valley Power
3111 Stone Avenue
Modesto, California 95358

Attn: Mr. Tyler Ott
P: (209) 918-1766
E: tyler@midvalleypower.com

Re: Phase I Environmental Site Assessment
Hondeville Energy Center
3348 Howard Road
Patterson, Stanislaus County, California
Terracon Project No. NB257189

Dear Mr. Ott:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the "site"). This assessment was performed in accordance with Terracon's Proposal No. PNB257189, dated November 5, 2025.

We appreciate the opportunity to be of service to you on this project. In addition to ESA services, our professionals provide other environmental, geotechnical, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Maxine Contreras
Field Scientist

Joe Rosenbery, P.G.
Environmental Department Manager

Carl A. Parten
Senior Principal

Attachments

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Executive Summary

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon's Proposal No. PNB257189, dated November 5, 2025, and was conducted and consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the site as reflected by the scope of this report. The ESA was conducted under the supervision or responsible charge of Carl A. Parten, Environmental Professional. Maxine Contreras performed the site reconnaissance on December 1, 2025.

Findings and Opinions

A summary of the findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site is located at 3348 Howard Road in Patterson, Stanislaus County, California and consists of two non-contiguous parcels of land totaling approximately 604 acres and identified by Assessor Parcel Numbers (APNs) 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021. The site is improved with cherry and almond orchards, an irrigation reservoir, and a farmstead consisting of one approximately 2,500-square-foot (SF) single-family one-story residence, one approximately 850-SF vacant one-story residence, a garage, a shed, and a solar farm. During the site reconnaissance, the site was occupied by Virginia Chen, Sidney & Stanley Gnesa, Jamison Ranch LLC, Stark Ranch LLC, LAT Farming Trust, John and Tamara Maring Family Partnership, TCA Properties Inc, and PANA Farms LLC. The site operated as a single-family residence and an agricultural orchard of cherries and almonds.

Historical Information

Based on a review of historical information, the site consisted of undeveloped land in the mid-1910s until utilization of agricultural dry farming in the early 1950s and development of a farmstead along the northern boundary in the mid-1950s. The site was developed with the existing transecting the California Aqueduct in the mid-1960s and utilized for row crops, orchards, and dry farming throughout the site through the early 1980s when agricultural operations appeared to consist of orchards throughout the site. The site was developed with the existing single-family residence, storage shed, and

garage in the mid-2000s and developed with the existing solar farm in the late 2010s and the existing irrigation reservoir in the early 2020s.

The site was utilized for orchards from at least 1963 through the present, which may have included the use of pesticides. In addition, multiple areas of chemical storage and mixing were observed on portions of the site. In Terracon's experience, the application of pesticides to orchards can leave trace amounts of the compounds in the soil that may accumulate overtime due to long-term applications. The site's long-term orchard use (~62 years) and observed storage and mixing areas represent a REC to the site.

The northern adjoining properties consisted of undeveloped land in the mid-1910s until developed with an apparent pumping station in the early 1940s. The property was developed with the existing Delta Mendota Canal and Howard Road followed by row crops and orchards in the early 1950s. The pumping station was demolished and graded in the late 1960s. The eastern adjoining properties consisted of undeveloped land in the early 1910s until utilized with row crops and orchards in the late 1950s then the southern portion was graded and developed with the existing utility substation. The southern and western adjoining properties consisted of undeveloped land in the early 1910s and developed with the existing Interstate-5 in the mid-1960s. The adjoining properties have remained relatively unchanged through the present. Based on a review of the historical information, RECs were not identified in connection with the adjoining properties to the site.

Previous Reports

Terracon requested the client provide any previous environmental reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The site address, identified as Pipeline Segment T-301-14 Hydrostatic Test, is listed on the Facility Registry Service/Facility Index (FINDS/FRS) database for a hydrostatic test for the adjoining natural gas pipeline. Based on a review of the listing, the Pipeline Segment T-301-14 Hydrostatic Test listing does not represent a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Site Reconnaissance

During the site reconnaissance, Terracon observed two irrigation pumps with sand filtration systems, seven herbicide above-ground storage tanks (ASTs), a solar farm, one approximately 8,000-gallon water AST, one approximately 250-gallon diesel AST (absent secondary containment), one approximately 250-gallon gasoline AST (absent secondary containment), 10 55-gallon and nine 5-gallon containers of hydraulic fluid, six 5-gallon containers of pesticide, over 100 2.5-gallon containers of herbicide activator, two septic tanks, pipeline markers for three crude oil and two natural gas pipelines, six pole-mounted transformers, approximately 20 feet by 20 feet stained soil adjacent to diesel AST, three irrigation water wells, one domestic water well, one 3,000 SF pond, and one approximately 200 by 200 SF irrigation reservoir.

The multiple herbicide and pesticide chemical storage and mixing areas represent a REC. In addition, the approximately 400 square feet of stained soil area next to the 250-gallon diesel AST and 250-gallon gasoline AST on soil without secondary containment represents a REC.

Adjoining Properties

The northern adjoining property consists of orchards (3553, 3565, and 3735 Howard Road). The eastern adjoining property consists of Utility Substation (3396 Needham Road). The southern and western adjoining properties consists of Interstate-5.

Significant Data Gaps

Significant data gaps (SDGs) were not identified.

Additional Services

Per the agreed scope of services, additional services as outlined in the proposal, including items described in Section 13.0 (Non-Scope Considerations) of ASTM E1527-21, were not conducted.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at 3348 Howard Road, Patterson, Stanislaus County, California, identified as APNs 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021, the site. The following RECs were identified in connection with the site:

- **Aboveground Storage Tanks:** Based on visual observations and absence of secondary containment, the 250-gallon diesel AST with associated staining and 250-gallon gasoline AST represents a REC in connection with the site.

- **Agricultural Operations:** The site was utilized for orchards from at least 1963 through to the present, which have included the storage and use of herbicides and pesticides. Based on the long-term use of the site for agricultural purposes and the storage and mixing of pesticides noted during Terracon's site observations, the site's long-term orchard uses represents a REC to the site.

Controlled RECs (CRECs) and/or SDGs were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon recommends additional investigation to evaluate the identified RECs. In addition, Terracon recommends the preparation of a Soil Management Plan (SMP) prior to future development and earth work.

1.0 Introduction

1.1 Site Description

Site Name	Hondeville Energy Center
Site Location/Address	3348 Howard Road, Patterson, Stanislaus County, California
Parcel Number	Assessor Parcel Numbers (APNs) 021007008, 021007009, 021013001, 021013020, 021013018, 021015026, 021015024, 021015023, 021015025, and 021015021.
Land Area	Two Non-Contiguous Parcels - Approximately 604 acres
Site Improvements	The site is improved with cherry and almond orchards, an irrigation reservoir, and a farmstead consisting of one approximately 2,500-square-feet (SF) single-family residence, one approximately 850-SF vacant residence, a garage, a shed, and a solar farm.
Anticipated Future Site Use	Solar and energy storage facility
Reason for the ESA	Acquiring the site

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the United States Geological Survey (USGS) 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2, and on the Site Details, which are included in Exhibit 3 and 4 of Appendix A.

1.2 Scope of Services

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon's Proposal No. PNB257189, dated November 5, 2025, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. Recognized environmental conditions are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." This ESA includes consideration of the movement of hazardous substances and petroleum products in any form, including migration of vapor in the subsurface. A de minimis condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

Review of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

PFAS are a family of compounds which are considered emerging contaminants of concern due to their mobility and longevity in the environment. PFAS has been used in many products, including but not limited to fire-fighting foam, anti-stick coatings, stain and water-repellent coatings, electroplating, and paper products, among others. On July 8, 2024, US EPA designated two PFAS compounds, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), including their salts and structural isomers, as hazardous substances under CERCLA; accordingly, PFOA and PFOS was evaluated within the scope of E1527-21. Please note that PFAS compounds are ubiquitous in the environment and this limited review is not to be construed as confirmation that PFAS compounds are not present in, at or under the site.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, the information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products or PFAS compounds may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Mid Valley Power. Use or reliance by any other party is prohibited without the written authorization of Mid Valley Power and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement. The limitation of liability defined in the Agreement is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Tyler Ott, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response		
		N/A*	Yes	No
Actual Knowledge of Environmental Liens that may encumber the site.				X
Actual Knowledge of Activity Use Limitations (AULs) that may encumber the site.			X	
Specialized Knowledge or Experience that is material to a REC in connection with the site.				X
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.				X
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.				X
Obvious Indicators of Releases at the site.				X

*N/A = Not Applicable

Mr. Ott indicated he was aware of AULs regarding the site and further indicated five out of ten APN is within the Williamson Act Conservation Contracts, in which will be cancelled at a later time. In addition, various drainage easements and pipelines (natural gas and petroleum) associated with the Department of Water Resources is located across the site and further discussed in Section 4.3. Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 Physical Setting

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 278 feet above mean sea level (msl).	USGS Topographic Map, Solyo, Patterson, Copper Mountain, and Westley, California Quadrangles, 2021 (Appendix C)
Topographic Gradient	Relatively flat area with a general gradient towards the northeast.	
Closest Surface Water	California Aqueduct, transecting the central portion of the site.	
Soil Characteristics		
Soil Type / Description	Capay Clay (31.55%) This soil located throughout the central northern, northeastern, and central southern portion of the site, is moderately well drained with 0 to 2 percent slope. Parent material consists of clayey alluvium derived from sedimentary rock. Typical soil profile consists of clay down to a total depth of 60 inches below ground surface (bgs). El Solyo silty clay loam (13.72%) This soil located throughout the central and eastern, is well drained with 0 to 2 percent slope. Parent material consists of clayey alluvium derived from sedimentary and metamorphic rock. Typical soil profile consists of silty clay loam to 17 inches bgs underlain by silty clay down to a total depth of 60 inches bgs. Zacharias gravelly clay loam (0.77%) This soil, located throughout the northwestern corner of the site is well drained with 0 to 2 percent slope. Parent material consists of alluvium mixed rock. Typical soil profile consists of gravelly clay loam down to a total depth of 66 inches bgs. Carbona clay loam (6.62%) This soil, located throughout the northern portion of the western boundary of the site is well drained with 2 to 8 percent slope. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam to a depth of 15 inches bgs	Stanislaus County, California, USDA-NRCS Web Soil Survey, issued September 8, 2025

Physical Setting Information		Source
	underlain by clay to 24 inches and clay loam down to total depth of 60 inches bgs. Zacharias clay loam (3.2%) This soil, located throughout the central portion of the site is well drained with 0 to 2 percent slope. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam down to total depth of 60 inches bgs. Vernalis-Zacharias complex (16.57%) This soil, located throughout the majority of the southeastern portion of the site is well drained with 0 to 2 percent slope. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam down to total depth of 62 inches bgs. Stomar clay loam (4.25%) This soil, located throughout southernmost portion of the site is well drained with 0 to 2 percent slope. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam to 11 inches bgs underlain by clay to 38 inches bgs and clay loam down to total depth of 60 inches bgs. Zacharias clay loam (16.02%) This soil, located throughout central southern and southwestern portion of the site is well drained with 2 to 5 percent slope. Parent material consists of alluvium from mixed rock. Typical soil profile consists of clay loam down to total depth of 66 inches bgs. Calla-carbona complex (0.68%) This soil, located throughout the western boundary of the site is well drained with 30 to 50 percent slope. Parent material consists of alluvium from calcareous sedimentary rock. Typical soil profile consists of clay loam down to total depth of 60 inches bgs. Zacharias gravelly clay loam (6.62%) This soil, located throughout central western portion of the site is well drained with 2 to 5 percent slope. Parent material	

Physical Setting Information		Source
	consists of alluvium from mixed rock. Typical soil profile consists of gravelly clay loam down to total depth of 66 inches bgs.	
Geology/Hydrogeology		
Formation	Surficial sediments (Qa)	National Geologic Map Database, Dibblee Geological Foundation, *Geologic map of the Solyo and Westerley quadrangles, San Joaquin and Stanislaus Counties, California*, 2007 (1:24,000)
Description	Alluvial gravel, sand, and clay of valley areas	
Estimated Depth to First Occurrence of Groundwater	Approximately 30 to 40 feet bgs.	Department of Water Resources (DWR) Sustainable Groundwater Management (SGMA) Data Viewer, Spring 2025
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the northeast).	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 Historical Use Information

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10-to-15-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs, and Sanborn maps are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from ERIS to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site.

- Topographic maps:
  - Romain, California, published in **1913**, **1915**, and **1952** (1:24,000)
  - Westley, California, published in **1916**, **1953**, **1971**, **1978**, **1991**, **1999**, **2015**, **2018**, and **2021** (1:24,000)
  - Carbona, California, published in **1922** and **1941** (1:62,500)
  - Modesto West, California, published in **1942** (1:24,000)
  - Solyo, California, published in **1969** and **1980** (1:24,000)
- Aerial photographs:
  - Agricultural Stabilization & Conservation Service, published in **1937**, **1950**, and **1957** (1"=500')
  - Cartwright Aerial Surveys, published in **1963** (1"=500')
  - United States Geological Survey, published in **1967**, **1971**, **1993**, and **1998** (1"=500')
  - National Aeronautics and Space Administration, published in **1982** (1"=500')
  - United States Department of Agriculture, published in **2004**, **2005**, **2006**, **2009**, **2010**, **2012**, **2014**, **2016**, **2018**, **2020**, and **2022** (1"=500')

Historical Maps and Aerial Photographs

Direction	Description
Site	Undeveloped land (1913-1937); utilized with apparent dry farming (1950); developed with a farmstead along the northern boundary and utilized with dry farming on the central eastern portion of the site (1957); developed with the existing Interstate-5 along the western and southern boundaries and concrete-lined California Aqueduct transecting the central portion of the site, utilized with row crops throughout the northern and western portions and orchards throughout the central portion of the site (1963-1967); utilized with dry farming on the southeastern portion and southern orchards graded and relocated westerly (1971); utilized with orchards throughout southeastern, northern, and northwestern portion (1982-2010); developed with existing single-family residence and agricultural buildings on central portion of the site (2004); northwestern portion vacated (2012-2016); developed with the existing solar panels adjoining the residence (2018-2020); developed with the existing pond located within the southeastern orchards (2022).
North	Undeveloped land (1913-1937); depicted with a pumping station on the western portion (1941); developed with the existing concrete-lined Delta Mendota Canal and developed with the existing Howard Road followed by agricultural row crops and orchards (1950-1957); utilized with dry farming on the central portion and orchards on the eastern portion (1963); developed with the existing concrete-lined California Aqueduct on the central portion and utilized with orchards throughout, pumping station no longer apparent and western portion graded (1967-1993); developed with the existing commercial shopping center on the western portion (2004-2022).
East	Undeveloped land (1913-1950); utilize with agricultural row crops and orchards

Direction	Description
	throughout (1957-1963); developed with the existing concrete-lined California Aqueduct (1967-1993); southern portion graded and developed with a utility substation (1998-2022).
South	Undeveloped land (1913-1963); developed with the existing Interstate-5 (1967-2022).
West	Undeveloped land (1913-1963); developed with the existing Interstate-5 (1967-2022).

DTSC Agricultural Properties Guidance: Organochlorine pesticides (OCPs) were first introduced into California agriculture in 1944 and reached peak usage in the 1960's. In 1974 the use of the DDT was banned for agricultural purposes, and the elimination of remaining OCPs in California agriculture quickly followed.

The site was utilized for orchards from at least 1963 through to the present, which have included the storage and use of herbicides and pesticides. In Terracon's experience, the application of pesticides to orchards can leave trace amounts of the compounds in the soil that may accumulate overtime due to long-term applications. Based on the long-term use of the site for agricultural purposes and the storage and mixing of pesticides noted during Terracon's site observations, the site's long-term orchard uses represents a REC to the site.

3.2 Historical City Directories

The Digital Business Directory, Haines, and Polks city directories used in this study were made available through ERIS (selected years reviewed: 1964 through to 2023) and were reviewed at approximate five-year intervals, if readily available. Street listings not available prior to 1972. The current street address for the site was identified as 3348 Howard Road.

Historical City Directories

Direction	Description
Site	**3448 Howard Road:** No listings (1972-2023).
North	**3553 Howard Road:** No listings (1972-2023). **3565 Howard Road:** Residential listings (1975); no listings (1980-1990); residential listings (1995-2000); Henderson & Henderson Nautical Repair Services (2003); no listings (2008); residential listings (2011); no listings (2016-2023). **3735 Howard Road:** No listings (1972-2023).
East	**3396 Needham Road:** No listings (1972-2023).
South	Interstate-5 – no listings.
West	Interstate-5 – no listings.

Terracon reviewed the above historical city directories for indications of RECs associated with the site. RECs associated with the site were not identified through a review of available historical city directories.

3.3 Site Ownership

Based on a review of information obtained from the Stanislaus County Assessor's records, the site owner consists of eleven parcels with multiple owners. The site owners and date of acquisition are identified below:

APNs	Owner	Date of Acquisition
021007008, 021007009	Virginia Chen and Sidney & Stanley Gnesa	1985
021015021	Jamison Ranch LLC, Stark Ranch LLC, LAT Farming Trust, Jon and Tamara Maring Family Partnership	June 2021
021013018, 021015023, 021015024, 021015025, 021015026	TCA Properties, Inc.	October 17, 2023
021013001, 021013020 (3348 Howard Road)	PANA Farms LLC	December 7, 2023

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

The ERIS regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records were provided by the client and previously discussed in Section 1.6. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were/were not interviewed regarding the current and historical use of the site.

Interviews

Interviewer	Name / Phone #	Title	Date/Time
Maxine Contreras	Tyler Ott / (209) 918-1766	President / CEO	November 13, 2025 / 3PM

Terracon interviewed Mr. Tyler Ott, President / CEO for Mid Valley Power, via email, stated that the site operates as a single-family residence and an agricultural orchard of cherries and almonds. He was not aware of any underground storage tanks (USTs), chemical storage drums, oil/water separators (OWS), sumps, wells, or pipelines currently or historically located on-site, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on-site. Mr. Ott was aware of a diesel aboveground storage tank (AST), septic tank, and heating and/or cooling equipment associated with the residence on site. He further stated that he was aware of irrigation and domestic wells, natural gas pipeline markers and pumping stations, pesticide/herbicide production/storage, air compressor associated with the agricultural orchards. Additionally, Mr. Ott was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

Interviewer	Name / Phone #	Title	Date/Time
Maxine Contreras	Sidney Gnesa / (425) 271-2942	Co-Owner	November 13, 2025 / 3PM

Terracon interviewed Sidney Gnesa, Co-Owner of the northwestern parcel, via email, and stated that the portion of the site operates as an agricultural orchard. They were not aware of ASTs, USTs, a septic tank, air compressor, heating and/or cooling equipment, chemical storage drums, OWS, sumps, wells, or pipelines currently or historically located on-site, nor were they aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on-site.

Sidney further stated that they were aware of irrigation and domestic wells, pipeline markers and associated easements for underground pipelines, pole-mounted transformers, irrigation systems associated with the agricultural orchards. Additionally, Sidney was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

Interviewer	Name / Phone #	Title	Date/Time
Maxine Contreras	Jon Maring / (209) 531-3711	General Partner	November 12, 2025 / 11AM

Terracon interviewed Mr. Jon Maring, General Partner for JTF, via email, and stated that the southeastern portion of the site operates as an agricultural orchard of cherries. He was not aware of ASTs, USTs, chemical storage drums, OWS, sumps, septic tanks, wells,

or pipelines currently or historically located on-site, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on-site. Additionally, Mr. Maring was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

Interviewer	Name / Phone #	Title	Date/Time
Maxine Contreras	Ty Angle / (209) 564-7289	Owner / Partner	November 13, 2025 / 3PM

Terracon interviewed Mr. Ty Angle, Owner / Partner for TCA Properties, Inc., via email, who has been familiar with the site for approximately 2 to 4 years. He was not aware of ASTs, USTs, chemical storage drums, OWS, sumps, septic tanks, wells, or pipelines currently or historically located on-site, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on-site. Additionally, Mr. Angle was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

Interviewer	Name / Phone #	Title	Date/Time
Maxine Contreras	Navjot Athwal / (209) 681-7094	Managing Member	November 12, 2025 / 11AM

Terracon interviewed Mr. Navjot Athwal, Managing Member for PANA Farms, LLC, via email, who has been familiar with the site for approximately two years. Mr. Athwal stated that the residential and central orchard portion of the site was acquired by PANA Farms LLC on October 11, 2023. He was not aware of USTs, chemical storage drums, OWS, or sumps, nor was he aware of any automotive service, x-ray development, large-scale printing, or dry-cleaning operations previously conducted on-site. Mr. Athwal was aware of a diesel AST, septic tank for the residence, and heating and/or cooling equipment associated with the residence on site. He further stated that he was aware of irrigation and domestic wells, natural gas pipeline markers, pesticide/herbicide production/storage, air compressor associated with the agricultural orchards. Additionally, Mr. Athwal was not aware of pending, threatened or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

4.0 Records Review

Regulatory database information was provided by ERIS, a contract information services company in a report dated November 10, 2025. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Terracon reviewed standard federal, state, and tribal environmental record sources within the approximate minimum search distances as required by ASTM E1527-21 and presented in Table 2 of Section 8.0 of The Standard (Types of Government Records to be Reviewed). Further, to enhance and supplement the standard environmental record sources, Terracon reviewed additional federal, state, tribal, local, and proprietary environmental record sources, provided by the database firm, if potentially useful and reasonably ascertainable. Please refer to Appendix D (the environmental regulatory database report) for the number of listings within each database reviewed and database definitions and descriptions.

Due to conversion of address data to location coordinates and the accuracy of government records, the facility locations depicted in the environmental regulatory database report may not match actual physical locations. As such, Terracon attempted to field-verify the actual distances of facilities of concern from the site.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities within 500 feet are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance / Direction / Gradient	Database Listings	Findings Summary
Pipeline Segment T-301-14 Hydrostatic Test (37.536, -121.261011)	Site	FINDS/FRS	Not a REC, discussed below.
State Of California - DWR Delta Field Division 3735 Howard Road	Adjoining / North / Down-to Cross-gradient	HAZ GEN	Not a REC, discussed below.
Crimson Pipeline Westley Station 4150 Howard Road	385 feet / West / Up- to Cross-gradient	CERS HAZ	Not a REC, based on preliminary review of listing and absence of violations and incidents.
Modesto Irrigation District / Westley Switchyard 3390 Needham Rd	380 feet / Northeast / Down-gradient	CUPA STANISLAUS, CERS HAZ	Not a REC, based on preliminary review of listing and absence of violations and incidents.
American Towers - Westley, CA - Site # 302050 4235 Howard Road	400 feet / Northwest / Cross-gradient	CUPA STANISLAUS	Not a REC, based on preliminary review of listing and absence of violations and incidents.

Pipeline Segment T-301-14 Hydrostatic Test (37.536, -121.261011)
The site, identified as Pipeline Segment T-301-14 Hydrostatic Test, is identified on the Facility Registry Service/Facility Index (FINDS/FRS) database for a hydrostatic test for the adjoining natural gas pipeline. Based on a review of the listing, the site does not represent a REC to the site.

State Of California - DWR Delta Field Division (3735 Howard Road)
The above-listed facility, identified as the northern adjoining facility and topographically down- to cross-gradient relative to the site is listed on the Generators from Hazardous Waste Manifest Data (HAZ GEN) database. Based on the listing, the facility had generated hazardous waste streams consisting of asbestos-containing waste in 2014. Based on a review of the listing and absence of violation, the facility does not represent a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed one facility in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site or adjacent properties. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
San Joaquin Valley Air Pollution Control District / Online: https://apps.valleyair.org/PublicPermits	On November 7, 2025, Terracon reviewed the agency's online records relating to the site and records were not identified.
Department of Toxic Substances Control / Email: PubReqAct@dtsc.ca.gov	On November 14, 2025, Terracon received a response from the agency indicating records were not identified for the site.
Central Valley Regional Water Quality Control Board / Email: r5s-pra@waterboards.ca.gov	On November 12, 2025, Terracon received a response from the agency indicating records were not identified for the site.
West Stanislaus Fire District / Email: abest@pattersonca.gov	On November 19, 2025, Terracon received a response from the agency indicating records were not identified for the site.
Stanislaus County Hazardous Materials Division / Email: SGetz@envres.org	On November 21, 2025, Terracon received a response from the agency indicating records were not identified for the site.

4.3 Local Area Knowledge

Based on a review of the California Department of Conservation's Geologic Energy Management Division (CalGEM) Well Finder website, there are no active or decommissioned oil or gas production wells located on the site or surrounding properties.

Based on a review of the National Pipeline Mapping System (NPMS) Public Viewer website, a crude oil pipeline for Crimson Pipeline L.P. transects the northern to the southern portion of the site. Reported incidents or releases were not identified in connection with the pipeline and is discussed in Section 4.1.

One natural gas transmission pipeline for Pacific Gas & Electric (PG&E) adjoins the northern portion of the site along Howard Road and one adjoins the eastern portion of the site along Interstate-5. Reported incidents or releases were not identified in connection with the pipelines. Hazardous liquid pipelines were not identified on the site

or surrounding properties. No releases or incidents were reported. Based on the absence of regulatory release listings associated with the pipelines, such as Leaking Underground Storage Tank (LUST) or Spills, Leaks, Investigation, and Cleanup (SLIC), the pipelines do not represent a REC to the site.

5.0 Site Reconnaissance

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance				
Field Personnel	Maxine Contreras			
Reconnaissance Date	December 1, 2025			
Weather Conditions	Foggy / 43°F			
Site Contact/Title	Tyler Ott / President / CEO for Mid Valley Power			
Site Utilities				
Drinking Water	Domestic Well			
Wastewater	Septic			
Electric	PG&E / Turlock Irrigation District			
Natural Gas	PG&E			
Building Description				
Building Identification	**Building Use**	**Approx. Construction Date**	**Number of Stories**	**Approx. Size (ft²)**
Single-family residence	Residential	2004	1	2,500
Vacant residence	Vacant	2004	1	850

5.2 Overview of Current Site Occupants

During the site reconnaissance, the site was occupied by Virginia Chen, Sidney & Stanley Gnesa, Jamison Ranch LLC, Stark Ranch LLC, LAT Farming Trust, Jon and Tamara Maring Family Partnership, TCA Properties Inc, and PANA Farms LLC.

5.3 Overview of Current Site Operations

During the site reconnaissance, the site operated as a single-family residence and an agricultural orchard of cherries and almonds.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	X
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	X
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	X

Category	Item or Feature	Observed or Identified
Aboveground Chemical or Waste Storage	Aboveground storage tanks	X
	Drums, barrels, and/or containers ≥ 5 gallons	X
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	X
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	X
	Interior floor drains	
Electrical Transformers/ PCBs	Transformers and/or capacitors	X
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	X
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	X
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	X
	Quarries or pits	
	Wastewater lagoons	
	Wells	X

Site Operations, Processes, and Equipment

Waste treatment systems and/or water treatment systems

According to Mr. Ott, the irrigation pump near the residence and the irrigation pump adjoining the reservoir are equipped with sand filters to filter out impurities and algae

before utilized for the orchards. Based on site observations and the interview with Mr. Ott, the water treatment system does not represent a REC to the site.

Pesticide/herbicide production or storage

Terracon observed several fertilizer ASTs on site, which are used during the growing season and are filled by Nutrien. Staining, noxious odors, or evidence of a release was not observed in the vicinity of the observed ASTs.

The following fertilizer containers were observed at the site:

Quantity	Approximate Capacity (gallons)	Contents	Location
3	6,000	Herbicide	Northern central residence
2	2,400	Herbicide	
2	6,000	Herbicide	Irrigation reservoir
100+	2.5	Herbicide activator	Storage containers / Irrigation reservoir

One pesticide and fertilizer storage shed was observed on the northern central portion of the site. The building was observed with five drums of herbicide, nine 50-pound bags of various dry fertilizers, three 275-gallon totes of pesticides, and over 100 2.5-gallon containers of herbicide activator. Based on the long-term agricultural operations, the storage, mixing and handling of herbicides and pesticides at the site represent a REC in connection with the site.

Other processes or equipment

The central northern portion of the site was developed with a solar panel farm in 2018. The solar panels are used to offset the usage of the domestic well and irrigation wells.

Aboveground Chemical or Waste Storage

Aboveground storage tanks

The following ASTs were observed at the site:

Quantity	Approximate Capacity (gallons)	Contents	Location	Secondary Containment?
1	8,000	Water	Irrigation reservoir	No
1	250	Regular gasoline		No
1	250	Dyed diesel	North of pesticide mixing area	No

During the site reconnaissance, Terracon observed two approximately 250-gallon aboveground storage tanks (ASTs) containing both red diesel and regular gasoline and

one approximately 8,000-gallon water AST. The ASTs were observed on soil and secondary containment was not observed. Staining was observed on the ground surface surrounding the red diesel AST covering an approximately 20 feet by 20 feet area of soil. Based on the observed staining and absence of secondary containment, the 250-gallon diesel with associated staining and 250-gallon gasoline ASTs (absent secondary containment on soil) represent a REC in connection with the site.

Drums, barrels, and/or containers ≥ 5 gallons

Approximately ten 55-gallon and nine 5-gallon containers of hydraulic fluid, six 5-gallon buckets of pesticide, and over 100 2.5-gallon containers of herbicide activator were observed throughout the site.

During the site reconnaissance, the following drums and containers were observed:

Approx. Quantity	Approximate Capacity (gallons)	Contents	Location
10	55	Hydraulic Fluid	Garage / Shed
9	5		Garage / Shed
6	5	Pesticide	Irrigation reservoir
100+	2.5	Herbicide activator	Storage containers / Irrigation reservoir

Staining or evidence of a release was not observed in the vicinity of the drums and containers. Based on site observations and staining, the observed drums and containers do not represent a REC to the site.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Septic tanks and/or leach fields

Terracon observed that the restrooms of the residences discharge to a septic tank with a pump out access port located on the northern exterior of the vacant residence and the eastern exterior of the occupied residence. Noxious odors or evidence of a release was not observed in the vicinity of the septic tanks. Based on the nature of the waste discharged to the septic tank (restroom), the septic tank and associated leach lines do not represent a REC to the site.

Pipeline markers

Pipeline markers were observed adjoining the northern boundary of the site and transecting throughout the site. According to the U.S. Department of Transportation's National Pipeline Mapping System (NPMS), there are three buried pipelines that run through the site – one crude oil pipeline operated by Crimson Pipeline, through the northwestern to southeastern portions, and two natural gas pipelines, operated by

PG&E, adjoining the northern boundary and adjoining Interstate-5 transecting the site. No releases or incidents were reported. Based on the absence of regulatory release listings associated with the pipelines, such as Leaking Underground Storage Tank (LUST) or Spills, Leaks, Investigation, and Cleanup (SLIC), the pipelines do not represent a REC to the site.

Electrical Transformers/PCBs

Transformers and/or capacitors

During the site reconnaissance, six pole-mounted transformers were observed throughout the site. The transformers are owned and serviced by PG&E; however, no information with regard to polychlorinated biphenyl (PCB) content of the transformer fluids was observed. Some transformers contain mineral oil which may contain PCBs.

PG&E maintains responsibility for the transformers, and if the transformers were "PCB contaminated," the utility company is not required to replace the transformer fluids until a release is identified. However, evidence of current or prior releases was not observed in the vicinity of the electrical equipment during the site reconnaissance. Based on this information, the on-site electrical equipment does not represent a REC to the site.

Releases or Potential Releases

Stained soil

During the site reconnaissance, staining was observed on the ground surface surrounding the red diesel AST covering approximately 20 feet by 20 feet of soil. Based on visual observations and absence of secondary containment, the moderate to heavy staining surrounding the diesel AST's fueling pump dispensers, the potential for a release to the subsurface represents a REC to the site.

Trash, debris, and/or other waste materials

During the site reconnaissance, Terracon observed trash, consisting of typical municipal litter items such as bottles, plastic, and miscellaneous food wrappers were observed throughout the site, adjoining public roads. Staining, noxious odors, or evidence of hazardous materials disposal were not observed. Based on site observations, the debris materials did not appear to be hazardous in nature and do not represent a REC to the site.

Other Notable Site Features

Surface water bodies

During the site reconnaissance, one approximately 200 feet by 200 feet irrigation reservoir was observed on the central eastern portion of the site and one 3,000 SF pond

was observed along the northern boundary of the site. The reservoir and pond are reportedly unlined. The ponds are man-made and Mr. Ott indicated they are utilized to modulate water to and from the aqueduct for orchard irrigation. He further stated the reservoir and pond are equipped with an electrical pump with electrical control boxes powered by the nearby PG&E pole-mounted transformers. Noxious odors or free-floating products were not observed on the bodies of water. Based on site observations, the surface bodies of water do not represent a REC to the site.

Wells

Three irrigation water wells were observed throughout the site and a domestic water well was observed on the northern central portion of the site adjoining the residence. Staining, noxious odors, or hazardous materials storage were not observed in the vicinity of the wells. Based on site observations, the wells do not represent a REC to the site.

6.0 Adjoining Property Reconnaissance

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	The northern adjoining property consists of orchards (3553, 3565, and 3735 Howard Road).
East	The eastern adjoining property consists of Utility Substation (3396 Needham Road).
South	The southern adjoining property consists of Interstate-5.
West	The southern adjoining property consists of Interstate-5.

RECs associated with the site originating from current off-site operations were not identified.

7.0 Additional Services

Per the agreed scope of services specified in the proposal, additional services (asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

8.0 Declaration

I, Carl A. Parten, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Carl A. Parten
Senior Principal

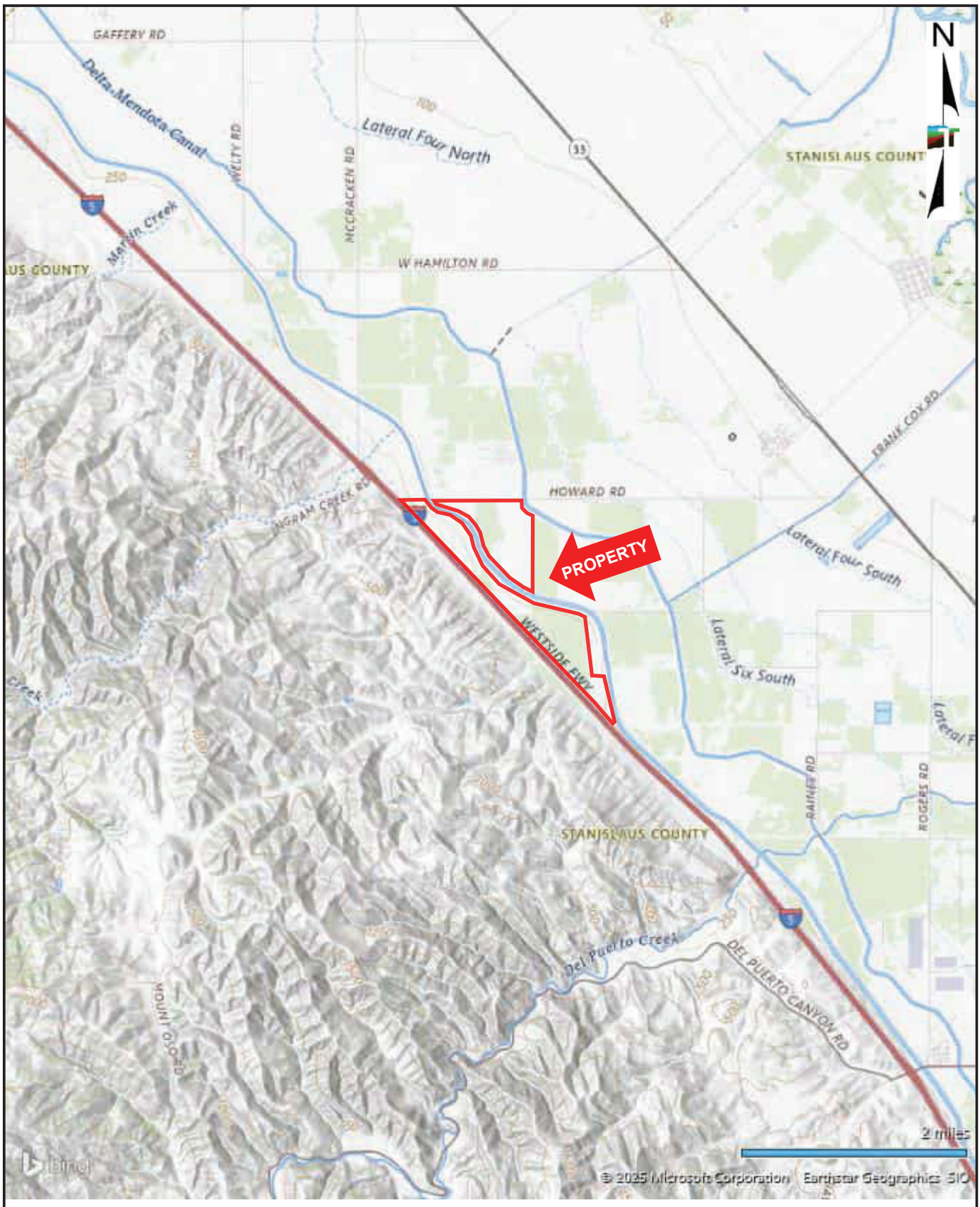
APPENDIX A

EXHIBIT 1: TOPOGRAPHIC MAP

EXHIBIT 2: SITE DIAGRAM

EXHIBIT 3: SITE DETAIL

EXHIBIT 4: SITE DETAIL



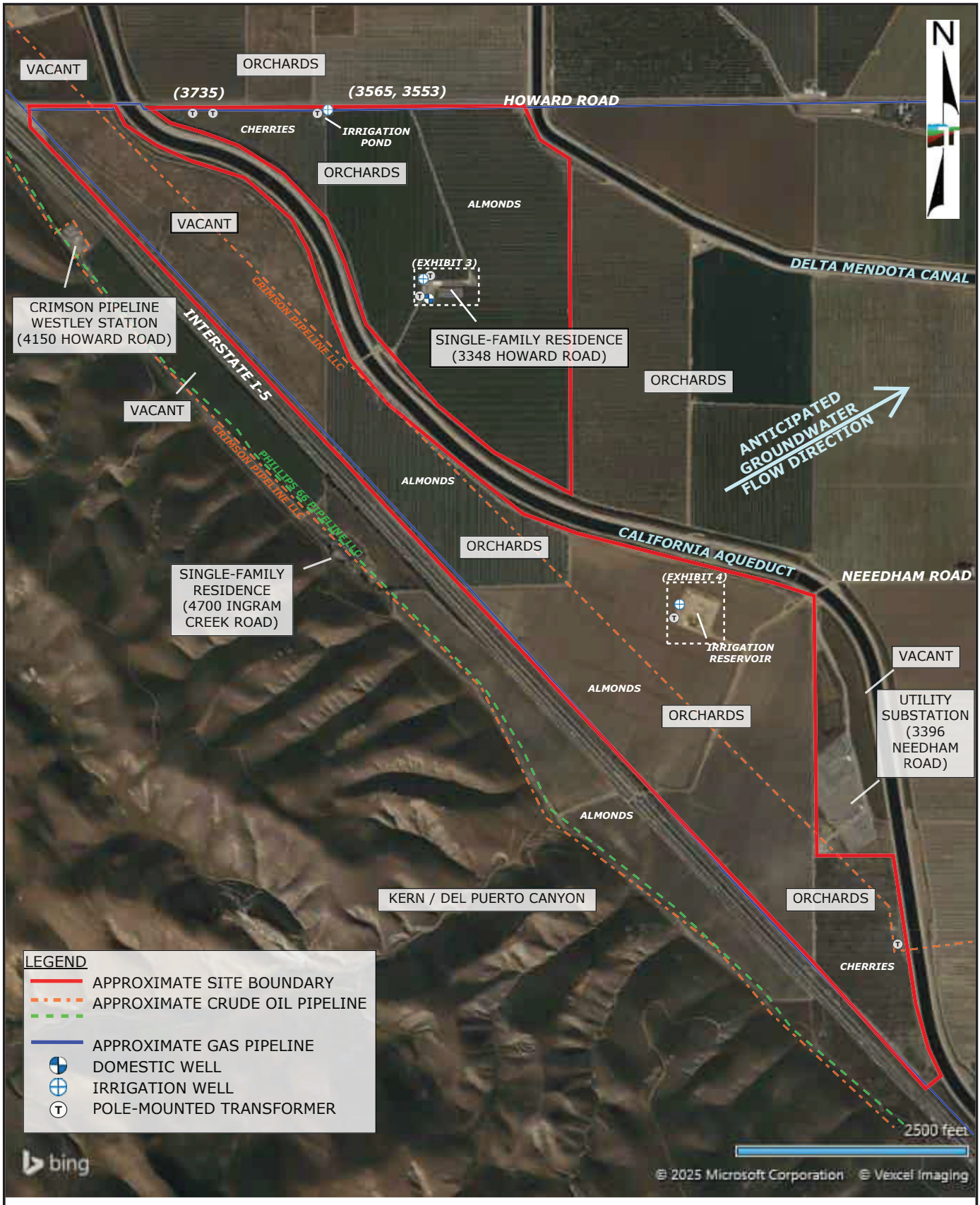
Project No.	NB257189
Scale:	AS SHOWN
Client:	Mid Valley Power
Date:	November 2025

Terracon
50 Golden Land Court Suite 100
Sacramento, California 95834-2425

TOPOGRAPHIC MAP

HONDEVILLE ENERGY CENTER
3348 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit
1



Project No.	NB257189
Scale:	AS SHOWN
Client:	Mid Valley Power
Date:	November 2025

Terracon

50 Golden Land Court Suite 100
Sacramento, California 95834-2425

SITE DIAGRAM

HONDEVILLE ENERGY CENTER
3348 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit

2



DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project No.	NB257189
Scale:	AS SHOWN
Client:	Mid Valley Power
Date:	November 2025

Terracon
50 Golden Land Court Suite 100
Sacramento, California 95834-2425

SITE DETAIL - NORTH

HONDEVILLE ENERGY CENTER
3348 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit
3



Project No.	NB257189
Scale:	AS SHOWN
Client:	Mid Valley Power
Date:	November 2025

Terracon

50 Golden Land Court Suite 100
Sacramento, California 95834-2425

SITE DETAIL - SOUTH

HONDEVILLE ENERGY CENTER
3348 HOWARD ROAD
PATTERSON, STANISLAUS COUNTY, CALIFORNIA

Exhibit

4

APPENDIX B

SITE PHOTOGRAPHS

Project Name: Hondeville Energy Center
Project No. NB257189
Photo Date: December 1, 2025



Photo #1 View of the site entrance, facing south (3348 Howard Road).



Photo #2 Overview of the single-family residence, facing south.



Photo #3 View of the septic output along the eastern boundary of the residence, facing south.



Photo #4 View of the domestic well and approximately 250-gallon propane tank located southwest of the residence.



Photo #5 View of the residential vehicle storage followed by the solar panel farm.



Photo #6 View of the vacant residence and two storage containers.



Photo #7 Typical view of the storage containers as pesticide and miscellaneous storage.



Photo #8 View of the internal vacant residence.



Photo #9 Overview of the maintenance garage and pesticide storage.



Photo #10 View of the paved garage with vehicle maintenance operations and storage.



Photo #11 View of the shed with palletized pesticide storage.



Photo #12 View of the entrance driveway, facing east, followed by the almond orchard.



Photo #13 View of the approximately 250-gallon red diesel AST and staining followed by the septic output, located north of the vacant residence.



Photo #14 View of the concrete-paved pesticide mixing area followed by the domestic well and sand filter system.



Photo #15 Overview of the three approximately 6,000-gallon and two approximately 2,400-gallon herbicide ASTs.



Photo #16 View of the northern irrigation pond, irrigation well, and a pole-mounted transformer along Howard Road, facing west.



Photo #17 View of the northwestern vacant land followed by Interstate-5, facing southwest.



Photo #18 View of the southeastern boundary of the site along the California Aqueduct, facing southeast.



Photo #19 View of the irrigation reservoir located on the central eastern portion of the site, facing east.



Photo #20 View of the water and herbicide ASTs followed by the sand filter system and pump.



Photo #21 View of the approximately 250-gallon gasoline AST followed by the irrigation pump.



Photo #22 View of the irrigation well adjoining the reservoir to the west.



Photo #23 View of the crude oil pipeline transecting the site and crossing the California Aqueduct, facing south.



Photo #24 View of the marked natural gas pipeline adjoining Interstate-5 and intersecting the site, facing southwest. Typical view of trash & debris throughout site.



Photo #25 View of the marked crude oil pipelines transecting the southwestern portion of the site, facing northwest.



Photo #26 View of the northern adjoining orchards (3553 and 3565 Howard Road).



Photo #27 View of the central and eastern adjoining California Aqueduct.



Photo #28 View of the southeastern adjoining utility substation (3396 Needham Road).



Photo #29 View of the southwestern adjoining Kern / Del Puerto Canyon, facing west.



Photo #30 View of the western adjoining single-family residence (4700 Ingram Road).

APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION

DATABASE REPORT

Project Property:	*Hondeville Energy Center* *3348 Howard Avenue* *Patterson CA 95363*
Project No:	*49427*
Report Type:	*Database Report*
Order No:	*26091602783*
Requested by:	*Terracon Consultants, Inc.*
Date Completed:	*September 17, 2026*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:	*Hondeville Energy Center* *3348 Howard Avenue Patterson CA 95363*
Project No:	*49427*

Coordinates:

Latitude:	*37.52839659*
Longitude:	*-121.24544827*
UTM Northing:	*4,154,937.98*
UTM Easting:	*655,032.52*
UTM Zone:	*10S*

Elevation: *222 FT*

Order Information:

Order No:	*26091602783*
Date Requested:	*September 16, 2026*
Requested by:	*Terracon Consultants, Inc.*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials (with Project Boundaries)*
City Directory Search	*Smart CD Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*
Topographic Map	*Topographic Maps*
Vapor Screening Tool	*Vapor Screening Tool*
terraDOCS Report	*terraDOCS*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	**1**	-	**1**
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	**1**	-	**1**
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	**2**	-	**2**
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	**1**	**4**	-	-	**5**
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
RESPONSE	Y	1	0	0	0	0	0	0
ENVIROSTOR	Y	1	0	0	0	0	0	0
DELISTED ENVS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
SWRCB SWF	Y	0.5	0	0	0	0	-	0
WMUD	Y	0.5	0	0	0	**2**	-	**2**
HWP	Y	1	0	0	0	**1**	0	**1**
SWAT	Y	0.5	0	0	0	0	-	0
C&D DEBRIS RECY	Y	0.5	0	0	0	0	-	0
RECYCLING	Y	0.5	0	0	0	0	-	0
PROCESSORS	Y	0.5	0	0	0	0	-	0
CONTAINER RECY	Y	0.5	0	0	0	0	-	0
LDS	Y	0.5	0	0	**1**	0	-	**1**
LUST	Y	0.5	0	0	0	**2**	-	**2**
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	**1**	-	-	**1**
UST CLOSURE	Y	0.5	0	0	0	0	-	0
HHSS	Y	0.25	0	**1**	0	-	-	**1**
UST SWEEPS	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
AST SWRCB	Y	0.25	0	0	0	-	-	0
TANK OIL GAS	Y	0.25	0	0	0	-	-	0
DELISTED TNK	Y	0.25	0	0	0	-	-	0
CERS TANK	Y	0.25	0	0	**2**	-	-	**2**
DELISTED CTNK	Y	0.25	0	0	0	-	-	0
HIST TANK	Y	0.25	0	**1**	0	-	-	**1**
LUR	Y	0.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
CALSITES	Y	0.5	0	0	0	0	-	0
HLUR	Y	0.5	0	0	0	0	-	0
DEED	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
CLEANUP SITES	Y	0.5	0	0	0	0	-	0
DELISTED CLEANUP	Y	0.5	0	0	0	0	-	0
DELISTED COUNTY	Y	0.25	0	0	0	-	-	0
DELISTED COUNTY TANK	Y	0.25	0	0	0	-	-	0
DELISTED COUNTY LTANK	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0
County								
CUPA STANISLAUS	Y	0.25	0	**4**	**2**	-	-	**6**
Additional Environmental Records								
Federal								
OSC RESPONSE	Y	0.125	0	0	-	-	-	0
PFAS GHG	Y	0.5	0	0	0	0	-	0
FINDS/FRS	Y	PO	**1**	**2**	-	-	-	**3**
TRIS	Y	PO	0	-	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
PFAS ERNS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	**1**	0	**1**	-	**2**
PFAS TSCA	Y	0.5	0	0	0	0	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
PFAS IND	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FUDS MRS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	**1**	0	0	**1**
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0
POWER PLANTS	Y	0.125	0	0	-	-	-	0
HIST RISK	Y	0.125	0	0	-	-	-	0
NPDES BIOSOLIDS	Y	PO	0	-	-	-	-	0
State								
PFAS SAMPLING	Y	0.5	0	**1**	0	**1**	-	**2**
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DRYC GRANT	Y	0.25	0	0	0	-	-	0
PFAS GT CLEANUPS	Y	0.5	0	0	0	0	-	0
PFAS GW	Y	0.5	0	**1**	0	**2**	-	**3**

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
PFAS INVEST	Y	0.5	0	0	0	0	-	0
HWSS CORTESE	Y	0.5	0	0	0	0	-	0
TOXIC PITS	Y	1	0	0	0	0	0	0
DTSC HWF	Y	0.5	0	0	0	0	-	0
INSP COMP ENF	Y	1	0	0	0	0	0	0
SCH	Y	1	0	0	0	0	0	0
CHMIRS	Y	PO	0	**1**	-	-	-	**1**
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HAZNET	Y	PO	0	-	-	-	-	0
HAZ GEN	Y	PO	**1**	-	-	-	-	**1**
HAZ TSD	Y	0.5	0	0	0	0	-	0
HIST MANIFEST	Y	PO	0	-	-	-	-	0
HW TRANSPORT	Y	0.125	0	0	-	-	-	0
WASTE TIRE	Y	PO	0	-	-	-	-	0
MEDICAL WASTE	Y	0.25	0	0	0	-	-	0
HIST CORTESE	Y	0.5	0	0	0	0	-	0
CDO/CAO	Y	0.5	0	0	0	0	-	0
CERS HAZ	Y	0.125	0	**3**	-	-	-	**3**
DELISTED HAZ	Y	0.5	0	0	0	**2**	-	**2**
GEOTRACKER	Y	0.125	**1**	0	-	-	-	**1**
MINE	Y	1	0	0	0	0	0	0
LIEN	Y	PO	0	-	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	0	-	-	0
EMISSIONS	Y	0.25	0	**5**	**6**	-	-	**11**
CDL	Y	0.125	0	0	-	-	-	0

Tribal ***No Tribal additional environmental record sources available for this State.***

County

Total:	***3***	***21***	***17***	***15***	*0*	***56***

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	GEOTRACKER	CENTRAL VALLEY GROWERS,. LLC - Howard III	3735 Howard Road Westley CA	NW	0.00 / 0.00	5	28
1	HAZ GEN	STATE OF CALIFORNIA - DWR DELTA FIELD DIVISION	3735 HOWARD RD PATTERSON CA 95360	NW	0.00 / 0.00	5	29
2	FINDS/FRS	PIPELINE SEGMENT T-301-14 HYDROSTATIC TEST	WESTLEY CA ***Registry ID:*** *110065377568*	WNW	0.00 / 0.00	36	29

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
3	CHMIRS	Golden Eagle Farms	3553 Howard Rd Westley CA 95387 ***Control No* | *Notified Date:*** 09-0540 |	N	0.01 / 37.91	-20	30
4	EMISSIONS	TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM ROAD WESTLEY CA 95387	SE	0.01 / 73.91	31	31
4	EMISSIONS	TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM RD WESTLEY CA 95387	SE	0.01 / 73.91	31	33
4	FINDS/FRS	TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM RD WESTLEY CA ***Registry ID:*** 110054268396	SE	0.01 / 73.91	31	38
4	FINDS/FRS	TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM RD WESTLEY CA ***Registry ID:*** 110071806207	SE	0.01 / 73.91	31	39
5	PFAS WATER	U.S. Geological Survey	CA ***Monitoring Location Identifier:*** USGS-373223121150201	NNW	0.01 / 78.25	-7	40
6	PFAS GW		CA	NNW	0.01 / 78.31	-7	48
6	PFAS SAMPLING		CA	NNW	0.01 / 78.31	-7	55
7	HHSS	ALVES RANCH	3565 HOWARD RD WESTLEY CA 95387	NNW	0.02 / 104.39	-7	60
7	HIST TANK	ALVES RANCH	3565 HOWARD RD WESTLEY CA	NNW	0.02 / 104.39	-7	60
8	CUPA STANISLAUS	American Towers - Westley, CA - Site # 302050	4235 Howard Westley CA 95387	WNW	0.07 / 392.28	36	60
8	EMISSIONS	VERIZON WIRELESS - WESTLEY TRUCK STOP	4235 HOWARD RD WESTLEY CA 95387	WNW	0.07 / 392.28	36	61

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
9	CERS HAZ	Turlock Irrigation District /westley Sub	3390 NEEDHAM WESTLEY CA 95387	ESE	0.08 / 438.70	13	67
9	CERS HAZ	Modesto Irrigation District / Westley Switchyard	3390 NEEDHAM RD WESTLEY CA 95387	ESE	0.08 / 438.70	13	69
9	CUPA STANISLAUS	Turlock Irrigation District /Westley Sub	3390 Needham Westley CA 95387	ESE	0.08 / 438.70	13	71
9	CUPA STANISLAUS	Modesto Irrigation District / Westley Switchyard	3390 Needham Rd Westley CA 95387	ESE	0.08 / 438.70	13	71
9	EMISSIONS	MODESTO IRRIGATION DISTRICT	3390 NEEDHAM RD WESTLEY CA	ESE	0.08 / 438.70	13	71
9	EMISSIONS	MODESTO IRRIGATION DISTRICT	3390 NEEDHAM RD WESTLEY CA 95363	ESE	0.08 / 438.70	13	75
10	CERS HAZ	Crimson Pipeline Westley Station	4150 HOWARD RD WESTLEY CA 95387	WNW	0.09 / 471.26	77	76
10	CUPA STANISLAUS	Westley Station	4150 Howard Rd Westley CA 95387	WNW	0.09 / 471.26	77	78
11	RCRA NON GEN	BAYS RANCH INC	3036 NEEDHAM RD WESTLEY CA ***Handler ID*** **|** ***Recycler Activity?:*** CAL000365132 | NO	ESE	0.11 / 596.98	10	78
12	LDS	MODESTO ENERGY L.P.	4549 INGRAM CREEK RD WESTLEY CA	WNW	0.16 / 856.25	170	81
13	CERS TANK	Joe's Travel Plaza	4415 HOWARD WESTLEY CA 95387 ***Site ID:*** 126364	WNW	0.19 / 1,019.09	38	82
13	CERS TANK	Joes tire & lube	4415 HOWARD RD WESTLEY CA 95387 ***Site ID:*** 363748	WNW	0.19 / 1,019.09	38	100
13	CUPA STANISLAUS	Joe's Travel Plaza	4415 Howard Westley CA 95387	WNW	0.19 / 1,019.09	38	107

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
13	CUPA STANISLAUS	Joes tire & lube	4415 Howard Rd Westley CA 95387	WNW	0.19 / 1,019.09	38	108
13	EMISSIONS	JOE'S TRAVEL PLAZA - WESTLEY	4415 HOWARD RD WESTLEY CA 95387	WNW	0.19 / 1,019.09	38	108
13	EMISSIONS	JOE'S TRAVEL PLAZA - WESTLEY	4415 HOWARD ROAD WESTLEY CA 95387	WNW	0.19 / 1,019.09	38	114
13	RCRA NON GEN	DHESI TRUCK SERVICES INC DBA JOES TIRE & LUBE	4415 HOWARD RD WESTLEY CA	WNW	0.19 / 1,019.09	38	116
			Handler ID **|** ***Recycler Activity?:*** CAL000414065	NO			
13	RCRA NON GEN	KGS DHOOT & ASSOC INC DBA JOES TRAVEL PLAZA II	4415 HOWARD RD WESTLEY CA	WNW	0.19 / 1,019.09	38	118
			Handler ID **|** ***Recycler Activity?:*** CAL000274952	NO			
13	RCRA NON GEN	GATE LINK CORPORATION	4415 HOWARD ROAD WESTLEY CA	WNW	0.19 / 1,019.09	38	121
			Handler ID **|** ***Recycler Activity?:*** CAC003210691	NO			
13	UST	Joe's Travel Plaza	4415 Howard Westley CA 95387	WNW	0.19 / 1,019.09	38	123
			Facility ID: District 5 ***Tank ID No.*** **|** ***Tank Status*** **|** ***Tank Closure Date:*** 003	Confirmed/Updated Information	, 001	Confirmed/Updated Information	, 002	Confirmed/Updated Information			
14	RCRA NON GEN	WALTER TRANSPORTATION,LLC	SB HOWARD RD OFF RAMP @ I-5 WESTLEY CA	WNW	0.20 / 1,066.15	48	124
			Handler ID **|** ***Recycler Activity?:*** CAC003091510	NO			
15	MRDS	HAMILTON ESTATE	STANISLAUS COUNTY PATTERSON CA 95363	NW	0.23 / 1,230.07	21	127
			Dep ID: 10263131				
16	EMISSIONS	NICK J TRANI ENTERPRISES DBA CARL'S JR	4437 HOWARD ROAD WESTLEY CA	WNW	0.24 / 1,277.45	45	127
16	EMISSIONS	MODESTO RESTAURANT GROUP	4437 HOWARD ROAD WESTLEY CA	WNW	0.24 / 1,277.45	45	128
16	EMISSIONS	MODESTO RESTAURANT GROUP	4437 HOWARD RD WESTLEY CA	WNW	0.24 / 1,277.45	45	131

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
16	EMISSIONS	MODESTO RESTAURANT GROUP	4437 HOWARD RD WESTLEY CA 95387	WNW	0.24 / 1,277.45	45	132
17	PFAS GW		CA	NW	0.25 / 1,334.17	22	135
18	PFAS GW		CA	NW	0.25 / 1,335.04	22	142
18	PFAS WATER	U.S. Geological Survey	CA ***Monitoring Location Identifier:*** USGS-373200121150001	NW	0.25 / 1,335.04	22	150
19	PFAS SAMPLING		CA	NW	0.25 / 1,335.12	22	159
20	LUST	AMERI OIL	4507 HOWARD WESTLEY CA ***Global ID:*** T0609900387	WNW	0.28 / 1,494.24	46	164
21	DELISTED HAZ	sbd oil inc dba westley chevron	4549 HOWARD RD WESTLEY CA 95387	WNW	0.36 / 1,899.17	46	167
21	RCRA TSD	SBD OIL WESTLEY CHEVRON	4549 HOWARD RD WESTLEY CA ***Handler ID | Recycler Activity?:*** CAL000318802 | YES	WNW	0.36 / 1,899.17	46	167
22	DELISTED HAZ	PG&E - Pigging Line 2 ILI Brentwood to New Westley Town	INGRAM CREEK ROAD & HOWARD RD WESTLEY CA 95387	WNW	0.42 / 2,193.77	42	169
23	CERCLIS	WESTLEY TIRE FIRE	4549 INGRAM CREEK ROAD WESTLEY CA 95387 ***Site EPA ID:*** CASFN0905570	WNW	0.44 / 2,345.89	55	169
23	HWP	MODESTO ENERGY LP	4549 INGRAM CREEK RD WESTLEY CA ***Envirostor ID:*** CAD982029969	WNW	0.44 / 2,345.89	55	171
23	LUST	WESTLEY FUEL SERVICE	4549 INGRAM CREEK WESTLEY CA ***Global ID:*** T0609900136	WNW	0.44 / 2,345.89	55	172
23	RCRA TSD	UNITED ROAD SERVICES	4549 INGRAM CREEK RD WESTLEY CA ***Handler ID | Recycler Activity?:*** CAC003015378 | NO	WNW	0.44 / 2,345.89	55	218

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
23	SEMS	WESTLEY TIRE FIRE	4549 INGRAM CREEK ROAD WESTLEY CA ***EPA ID:*** CASFN0905570	WNW	0.44 / 2,345.89	55	220
23	WMUD	WESTLEY TIRE PILE	4401-4549 INGRAM CK ROAD WESTLEY CA 95387	WNW	0.44 / 2,345.89	55	222
23	WMUD	MODESTO ENERGY L.P.	4549 INGRAM CREEK RD WESTLEY CA 95387	WNW	0.44 / 2,345.89	55	223

Executive Summary: Summary by Data Source

Standard

Federal

SEMS - SEMS List 8R Active Site Inventory

A search of the SEMS database, dated Jul 5, 2026 has found that there are 1 SEMS site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
WESTLEY TIRE FIRE	4549 INGRAM CREEK ROAD WESTLEY CA	WNW	0.44 / 2,345.89	23
	***EPA ID**: CASFN0905570*			

CERCLIS - Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS

A search of the CERCLIS database, dated Oct 25, 2013 has found that there are 1 CERCLIS site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
WESTLEY TIRE FIRE	4549 INGRAM CREEK ROAD WESTLEY CA 95387	WNW	0.44 / 2,345.89	23
	***Site EPA ID**: CASFN0905570*			

RCRA TSD - RCRA non-CORRACTS TSD Facilities

A search of the RCRA TSD database, dated Aug 9, 2026 has found that there are 2 RCRA TSD site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
SBD OIL WESTLEY CHEVRON	4549 HOWARD RD WESTLEY CA	WNW	0.36 / 1,899.17	21
	***Handler ID**	**Recycler Activity?**: CAL000318802	YES*		
UNITED ROAD SERVICES	4549 INGRAM CREEK RD WESTLEY CA	WNW	0.44 / 2,345.89	23
	***Handler ID**	**Recycler Activity?**: CAC003015378	NO*		

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Aug 9, 2026 has found that there are 5 RCRA NON GEN site(s) within approximately 0.25miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
BAYS RANCH INC	3036 NEEDHAM RD WESTLEY CA	ESE	0.11 / 596.98	11
	***Handler ID**	**Recycler Activity?**: CAL000365132	NO*		

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
DHESI TRUCK SERVICES INC DBA JOES TIRE & LUBE	4415 HOWARD RD WESTLEY CA	WNW	0.19 / 1,019.09	13
	Handler ID **|** ***Recycler Activity?****: CAL000414065* | *NO*			
GATE LINK CORPORATION	4415 HOWARD ROAD WESTLEY CA	WNW	0.19 / 1,019.09	13
	Handler ID **|** ***Recycler Activity?****: CAC003210691* | *NO*			
KGS DHOOT & ASSOC INC DBA JOES TRAVEL PLAZA II	4415 HOWARD RD WESTLEY CA	WNW	0.19 / 1,019.09	13
	Handler ID **|** ***Recycler Activity?****: CAL000274952* | *NO*			
WALTER TRANSPORTATION, LLC	SB HOWARD RD OFF RAMP @ I-5 WESTLEY CA	WNW	0.20 / 1,066.15	14
	Handler ID **|** ***Recycler Activity?****: CAC003091510* | *NO*			

State

WMUD - Waste Management Unit Database

A search of the WMUD database, dated Jan 1, 2000 has found that there are 2 WMUD site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
WESTLEY TIRE PILE	4401-4549 INGRAM CK ROAD WESTLEY CA 95387	WNW	0.44 / 2,345.89	23
MODESTO ENERGY L.P.	4549 INGRAM CREEK RD WESTLEY CA 95387	WNW	0.44 / 2,345.89	23

HWP - EnviroStor Hazardous Waste Facilities

A search of the HWP database, dated Aug 6, 2026 has found that there are 1 HWP site(s) within approximately 1.00miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
MODESTO ENERGY LP	4549 INGRAM CREEK RD WESTLEY CA	WNW	0.44 / 2,345.89	23
	Envirostor ID*: CAD982029969*			

LDS - Land Disposal Sites

A search of the LDS database, dated Aug 19, 2026 has found that there are 1 LDS site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
MODESTO ENERGY L.P.	4549 INGRAM CREEK RD WESTLEY CA	WNW	0.16 / 856.25	12

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key

LUST - Leaking Underground Fuel Tank Reports

A search of the LUST database, dated Aug 19, 2026 has found that there are 2 LUST site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
AMERI OIL	4507 HOWARD WESTLEY CA ***Global ID**: T0609900387*	WNW	0.28 / 1,494.24	20
WESTLEY FUEL SERVICE	4549 INGRAM CREEK WESTLEY CA ***Global ID**: T0609900136*	WNW	0.44 / 2,345.89	23

UST - Permitted Underground Storage Tank (UST) in GeoTracker

A search of the UST database, dated May 17, 2026 has found that there are 1 UST site(s) within approximately 0.25miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Joe's Travel Plaza	4415 Howard Westley CA 95387 ***Facility ID**: District 5* ***Tank ID No. | Tank Status | Tank Closure Date**: 003 | Confirmed/Updated Information | , 001 | Confirmed/Updated Information | , 002 | Confirmed/Updated Information |*	WNW	0.19 / 1,019.09	13

HHSS - Historical Hazardous Substance Storage Information Database

A search of the HHSS database, dated Aug 27, 2015 has found that there are 1 HHSS site(s) within approximately 0.25miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ALVES RANCH	3565 HOWARD RD WESTLEY CA 95387	NNW	0.02 / 104.39	7

CERS TANK - California Environmental Reporting System (CERS) Tanks

A search of the CERS TANK database, dated May 20, 2026 has found that there are 2 CERS TANK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Joes tire & lube	4415 HOWARD RD WESTLEY CA 95387 ***Site ID**: 363748*	WNW	0.19 / 1,019.09	13
Joe's Travel Plaza	4415 HOWARD WESTLEY CA 95387 ***Site ID**: 126364*	WNW	0.19 / 1,019.09	13

HIST TANK - Historical Hazardous Substance Storage Container Information - Facility Summary

A search of the HIST TANK database, dated May 27, 1988 has found that there are 1 HIST TANK site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ALVES RANCH	3565 HOWARD RD WESTLEY CA	NNW	0.02 / 104.39	7

County

CUPA STANISLAUS - Stanislaus County - CUPA List

A search of the CUPA STANISLAUS database, dated Jun 8, 2022 has found that there are 6 CUPA STANISLAUS site(s) within approximately 0.25miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
American Towers - Westley, CA - Site # 302050	4235 Howard Westley CA 95387	WNW	0.07 / 392.28	8
Modesto Irrigation District / Westley Switchyard	3390 Needham Rd Westley CA 95387	ESE	0.08 / 438.70	9
Turlock Irrigation District /Westley Sub	3390 Needham Westley CA 95387	ESE	0.08 / 438.70	9
Westley Station	4150 Howard Rd Westley CA 95387	WNW	0.09 / 471.26	10
Joe's Travel Plaza	4415 Howard Westley CA 95387	WNW	0.19 / 1,019.09	13
Joes tire & lube	4415 Howard Rd Westley CA 95387	WNW	0.19 / 1,019.09	13

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Jul 1, 2026 has found that there are 3 FINDS/FRS site(s) within approximately 0.02miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
PIPELINE SEGMENT T-301-14 HYDROSTATIC TEST	WESTLEY CA ***Registry ID**: 110065377568*	WNW	0.00 / 0.00	2
TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM RD WESTLEY CA ***Registry ID**: 110054268396*	SE	0.01 / 73.91	4
TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM RD WESTLEY CA ***Registry ID**: 110071806207*	SE	0.01 / 73.91	4

PFAS WATER - PFAS Water Quality Portal Sampling Data

A search of the PFAS WATER database, dated Feb 2, 2026 has found that there are 2 PFAS WATER site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
U.S. Geological Survey	CA ***Monitoring Location Identifier**: USGS-373200121150001*	NW	0.25 / 1,335.04	18

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
U.S. Geological Survey	CA ***Monitoring Location Identifier**: USGS-373223121150201*	NNW	0.01 / 78.25	5

MRDS - Mineral Resource Data System

A search of the MRDS database, dated Mar 15, 2016 has found that there are 1 MRDS site(s) within approximately 1.00miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
HAMILTON ESTATE	STANISLAUS COUNTY PATTERSON CA 95363 ***Dep ID**: 10263131*	NW	0.23 / 1,230.07	15

State

PFAS GW - PFOA/PFOS Groundwater

A search of the PFAS GW database, dated May 10, 2026 has found that there are 3 PFAS GW site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	CA	NW	0.25 / 1,334.17	17

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	CA	NW	0.25 / 1,335.04	18

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	CA	NNW	0.01 / 78.31	6

CHMIRS - California Hazardous Material Incident Report System (CHMIRS)

A search of the CHMIRS database, dated Jul 11, 2025 has found that there are 1 CHMIRS site(s) within approximately 0.02miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Golden Eagle Farms	3553 Howard Rd Westley CA 95387	N	0.01 / 37.91	3
	Control No **|** ***Notified Date****: 09-0540* |			

HAZ GEN - Generators from Hazardous Waste Manifest Data

A search of the HAZ GEN database, dated Jun 1, 2026 has found that there are 1 HAZ GEN site(s) within approximately 0.02miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
STATE OF CALIFORNIA - DWR DELTA FIELD DIVISION	3735 HOWARD RD PATTERSON CA 95360	NW	0.00 / 0.00	1

CERS HAZ - California Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the CERS HAZ database, dated May 20, 2026 has found that there are 3 CERS HAZ site(s) within approximately 0.12miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Turlock Irrigation District /westley Sub	3390 NEEDHAM WESTLEY CA 95387	ESE	0.08 / 438.70	9
Modesto Irrigation District / Westley Switchyard	3390 NEEDHAM RD WESTLEY CA 95387	ESE	0.08 / 438.70	9
Crimson Pipeline Westley Station	4150 HOWARD RD WESTLEY CA 95387	WNW	0.09 / 471.26	10

DELISTED HAZ - Delisted Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the DELISTED HAZ database, dated Nov 29, 2018 has found that there are 2 DELISTED HAZ site(s) within approximately

0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
sbd oil inc dba westley chevron	4549 HOWARD RD WESTLEY CA 95387	WNW	0.36 / 1,899.17	21
PG&E - Pigging Line 2 ILI Brentwood to New Westley Town	INGRAM CREEK ROAD & HOWARD RD WESTLEY CA 95387	WNW	0.42 / 2,193.77	22

GEOTRACKER - Sites in GeoTracker

A search of the GEOTRACKER database, dated Aug 19, 2026 has found that there are 1 GEOTRACKER site(s) within approximately 0.12miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
CENTRAL VALLEY GROWERS,. LLC - Howard III	3735 Howard Road Westley CA	NW	0.00 / 0.00	1

EMISSIONS - Toxic Pollutant Emissions Facilities

A search of the EMISSIONS database, dated May 15, 2026 has found that there are 11 EMISSIONS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM RD WESTLEY CA 95387	SE	0.01 / 73.91	4
TURLOCK IRRIGATION DISTRICT	3396 NEEDHAM ROAD WESTLEY CA 95387	SE	0.01 / 73.91	4
VERIZON WIRELESS - WESTLEY TRUCK STOP	4235 HOWARD RD WESTLEY CA 95387	WNW	0.07 / 392.28	8
MODESTO IRRIGATION DISTRICT	3390 NEEDHAM RD WESTLEY CA 95363	ESE	0.08 / 438.70	9
MODESTO IRRIGATION DISTRICT	3390 NEEDHAM RD WESTLEY CA	ESE	0.08 / 438.70	9
JOE'S TRAVEL PLAZA - WESTLEY	4415 HOWARD ROAD WESTLEY CA 95387	WNW	0.19 / 1,019.09	13

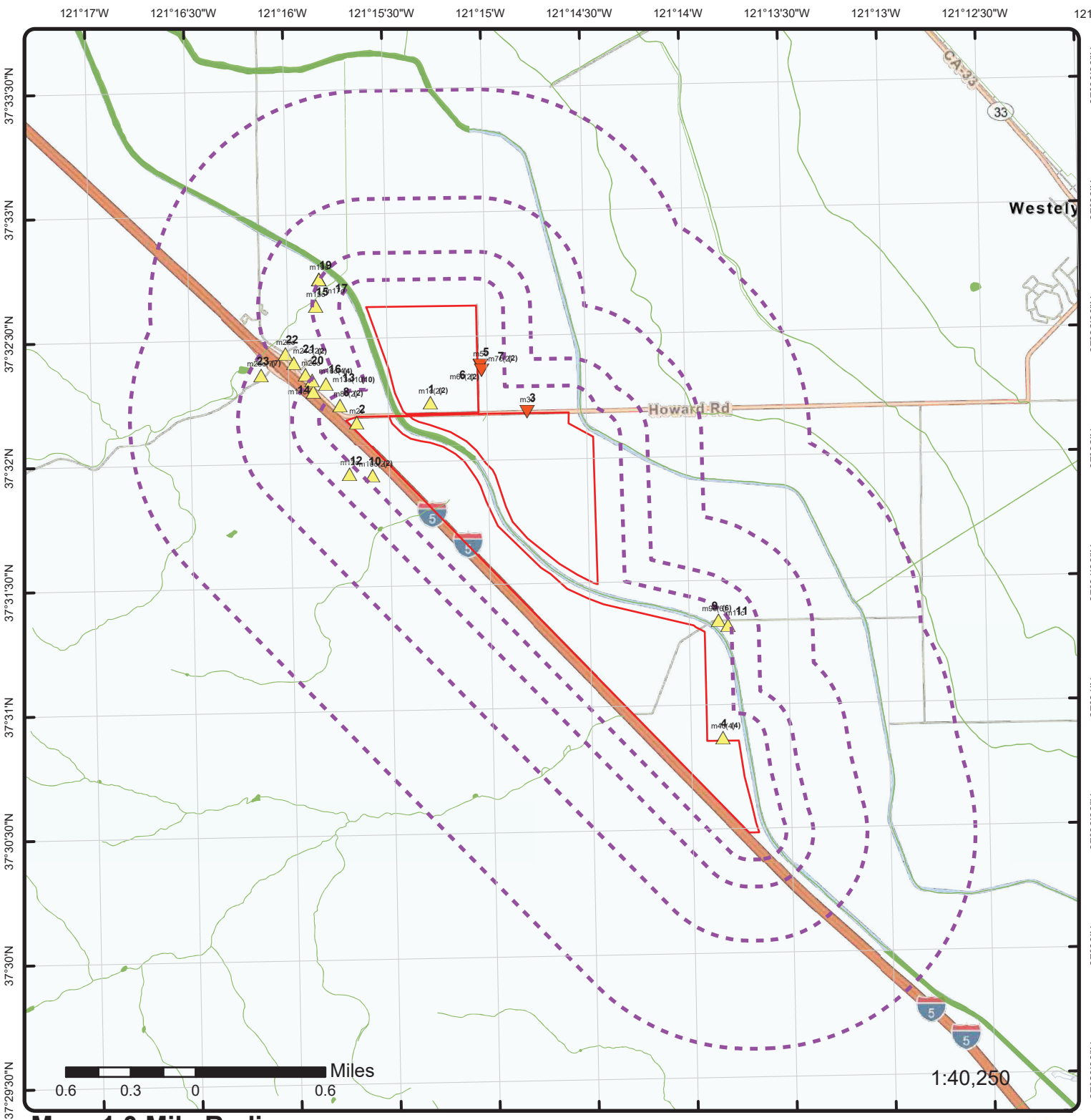
Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
JOE'S TRAVEL PLAZA - WESTLEY	4415 HOWARD RD WESTLEY CA 95387	WNW	0.19 / 1,019.09	13
NICK J TRANI ENTERPRISES DBA CARL'S JR	4437 HOWARD ROAD WESTLEY CA	WNW	0.24 / 1,277.45	16
MODESTO RESTAURANT GROUP	4437 HOWARD RD WESTLEY CA 95387	WNW	0.24 / 1,277.45	16
MODESTO RESTAURANT GROUP	4437 HOWARD RD WESTLEY CA	WNW	0.24 / 1,277.45	16
MODESTO RESTAURANT GROUP	4437 HOWARD ROAD WESTLEY CA	WNW	0.24 / 1,277.45	16

PFAS SAMPLING - PFAS Sampling Locations

A search of the PFAS SAMPLING database, dated Mar 4, 2026 has found that there are 2 PFAS SAMPLING site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	CA	NW	0.25 / 1,335.12	19

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	CA	NNW	0.01 / 78.31	6



Map: 1.0 Mile Radius

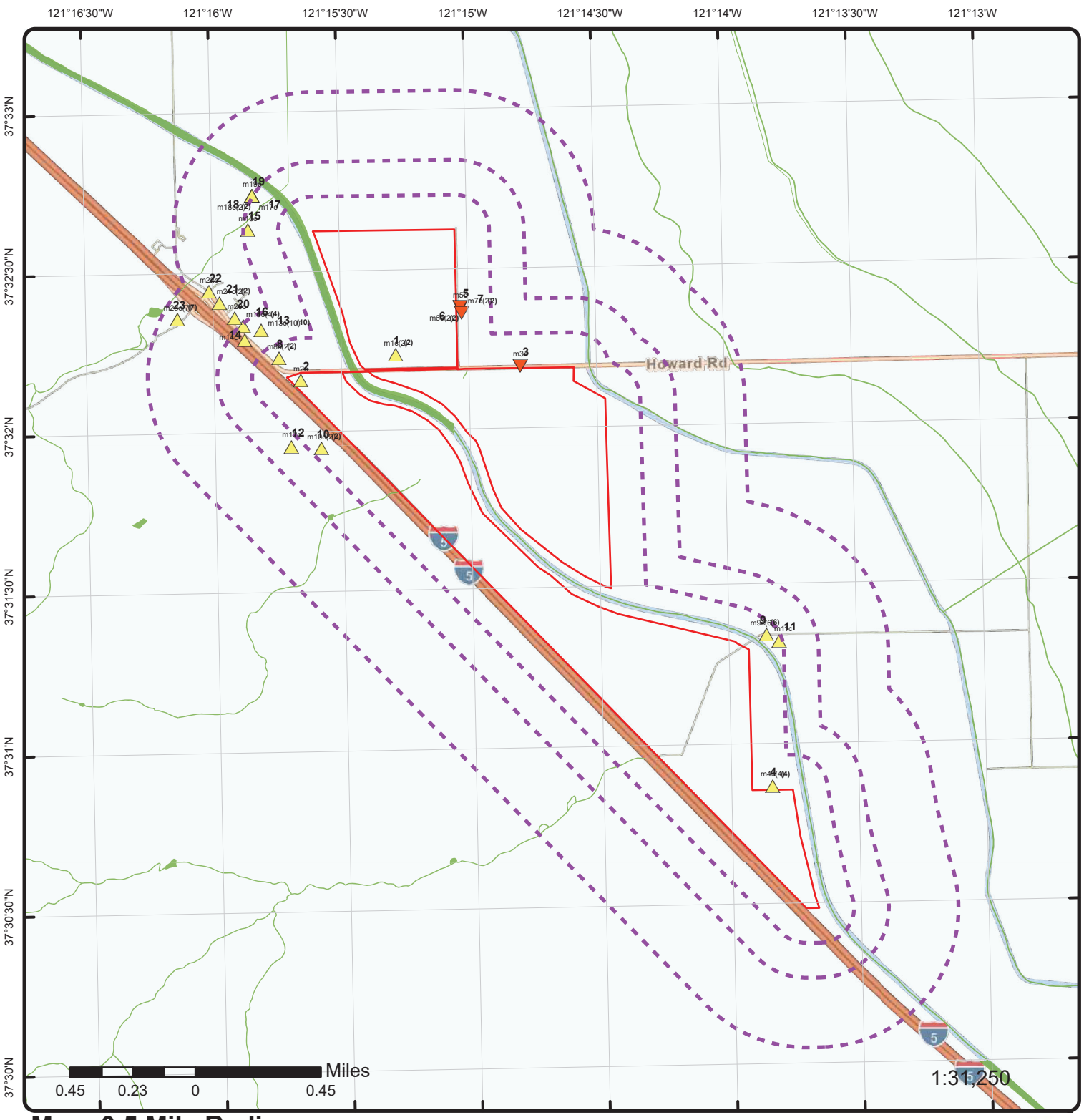
Order Number: 26091602783

Address: 3348 Howard Avenue, Patterson, CA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium

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Map: 0.5 Mile Radius

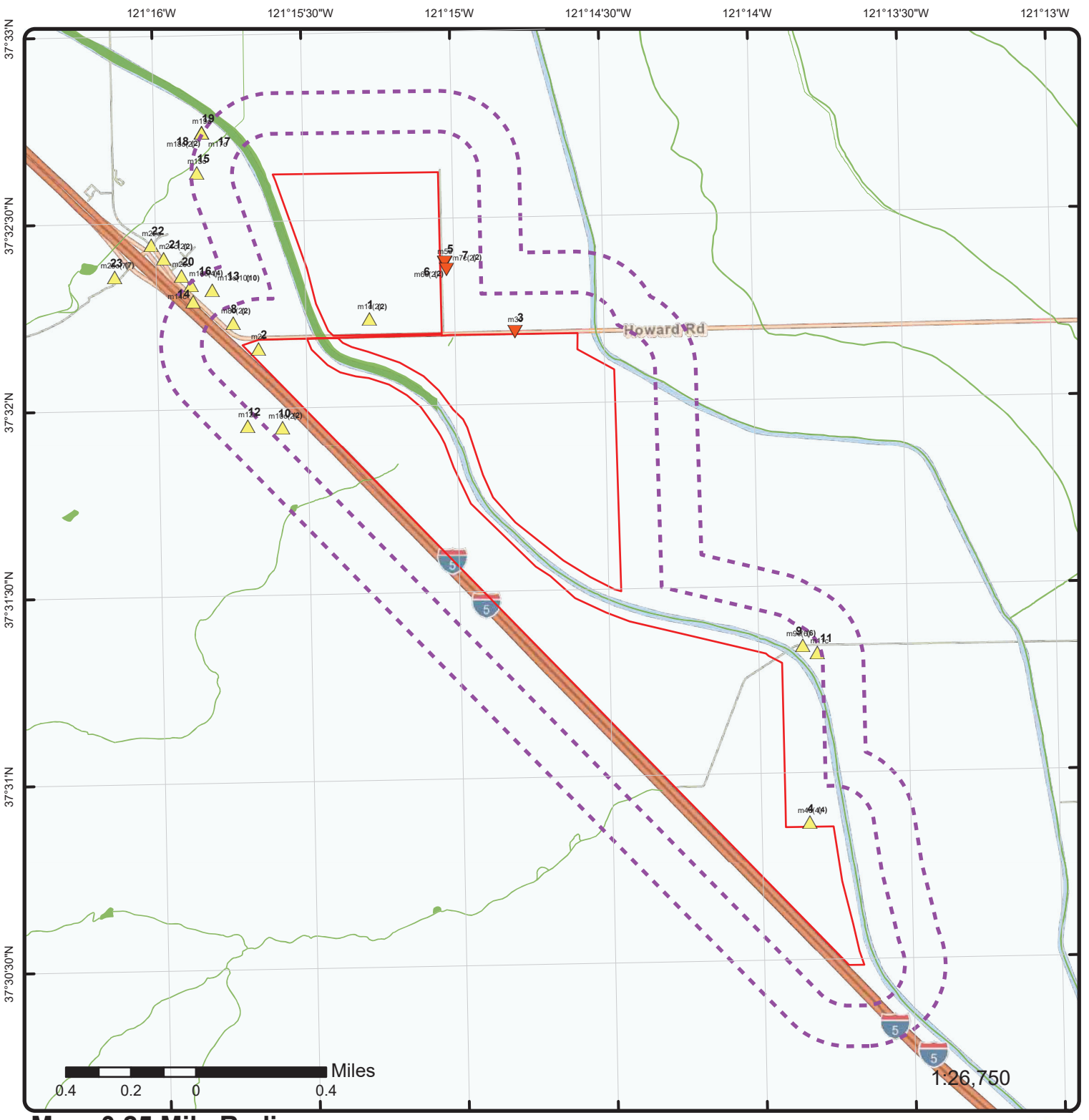
Order Number: 26091602783

Address: 3348 Howard Avenue, Patterson, CA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium

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Map: 0.25 Mile Radius

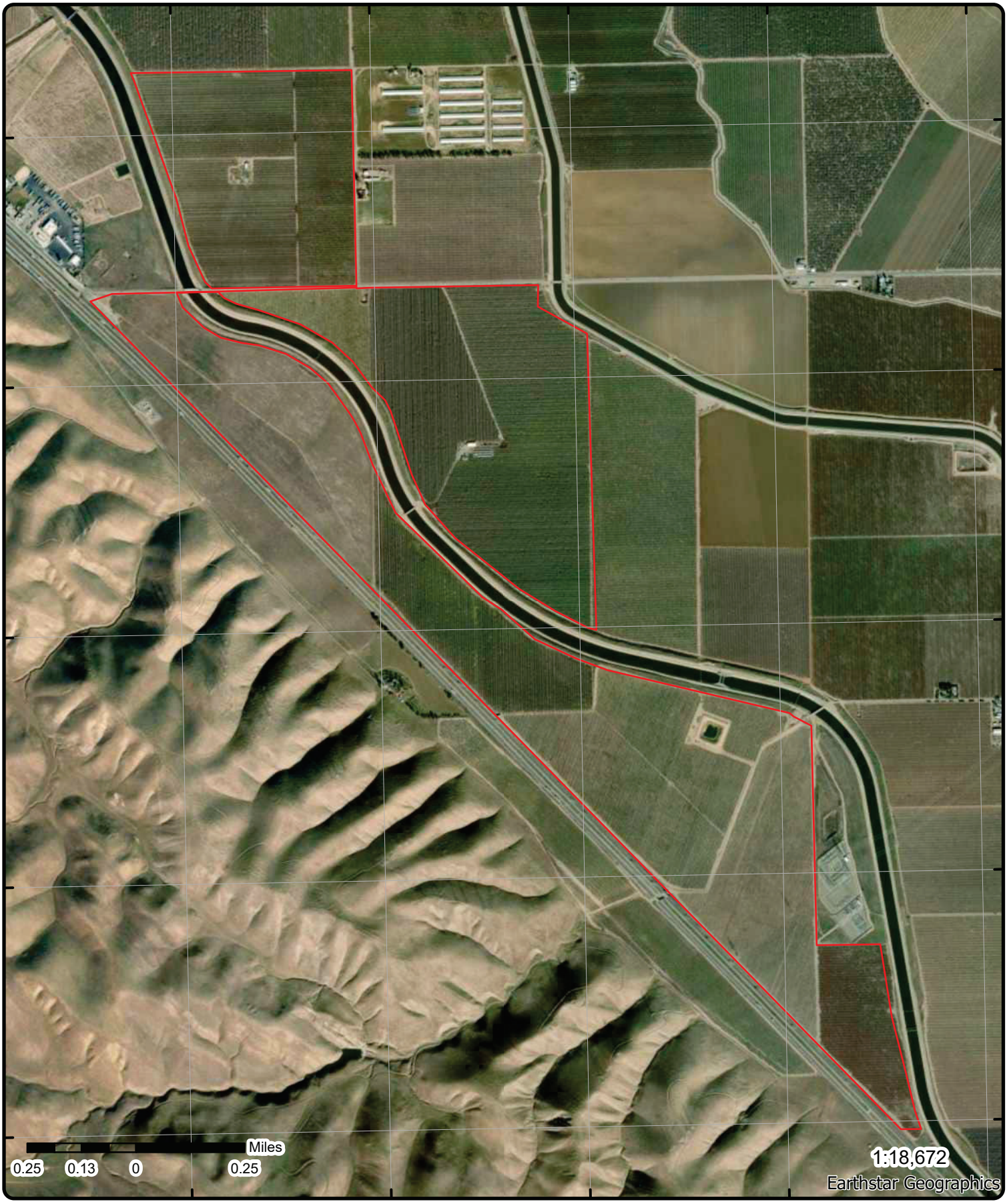
Order Number: 26091602783

Address: 3348 Howard Avenue, Patterson, CA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium

© ERIS Information Inc.



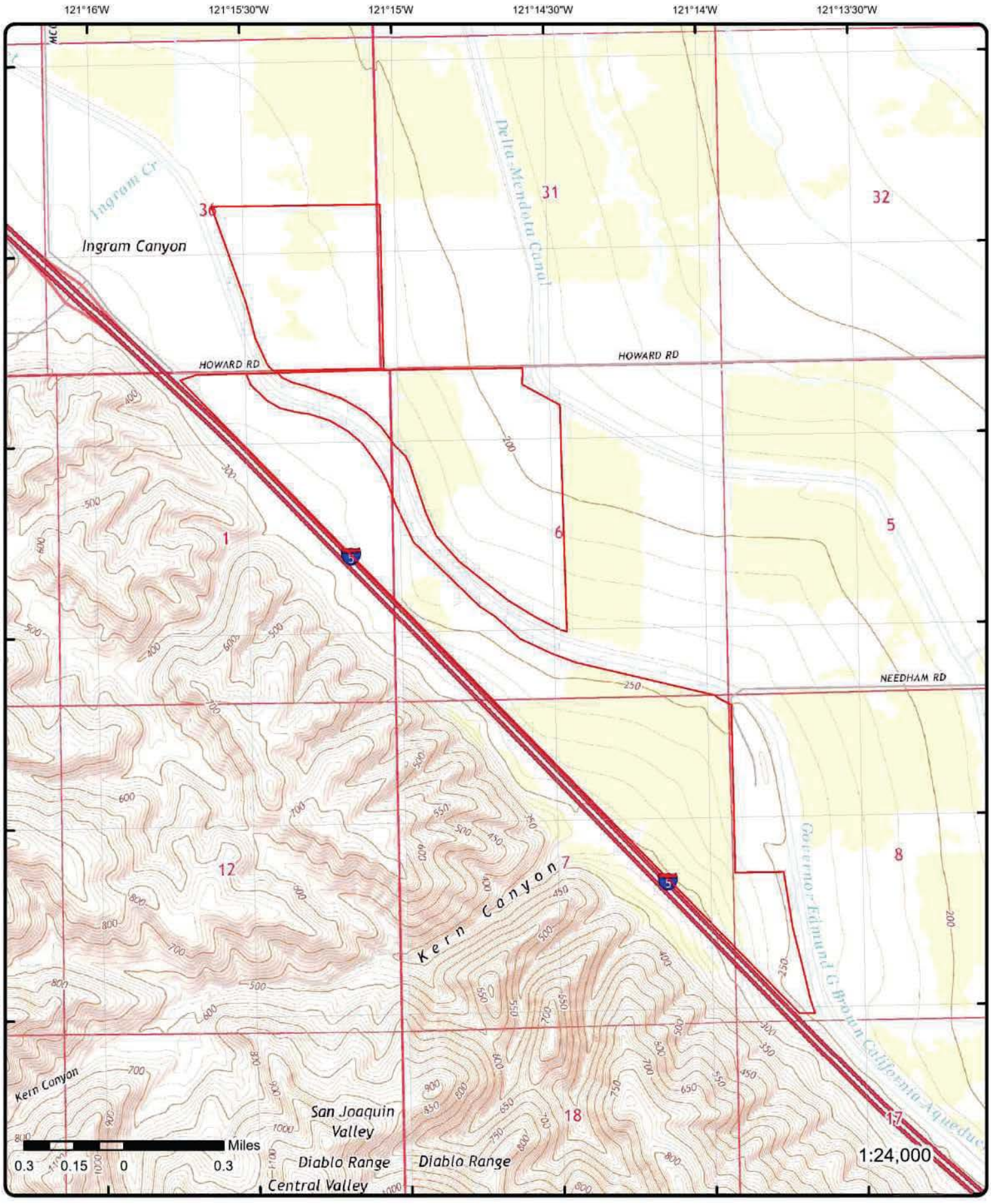
Aerial **Year: 2025**

Order Number: 26091602783

Address: 3348 Howard Avenue, Patterson, CA

Source: ESRI World Imagery

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Topographic Map

Year: 2021

Order Number: 26091602783

Address: 3348 Howard Avenue, CA

Quadrangle(s): Copper Mountain CA, Solyo CA, Patterson CA, Westley CA

Source: USGS Topographic Map

© ERIS Information Inc.

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 2	NW	0.00 / 0.00	227.17 / 5	CENTRAL VALLEY GROWERS,. LLC - Howard III 3735 Howard Road Westley CA	GEOTRACKER

Global ID:	CAN100053723	**Case Type (DL):**	* Cannabis Program Site
Site Fac Type(SRCH):	* Cannabis Program Site	**RWQCB Region (DL):**	CENTRAL VALLEY RWQCB (REGION 5S)
Status (SRCH):	HISTORICAL - WDR	**Census Tract (SRCH):**	6099003300
Status (DL):	Historical - WDR	**Latitude (DL):**	37.537248
Status Date (DL):	6/7/2021	**Longitude (DL):**	-121.254774
Cleanup Status:		**State (DL):**	CA

Site Facility Name (SRCH):	CENTRAL VALLEY GROWERS,. LLC - HOWARD III
Address (SRCH):	3735 HOWARD ROAD
City (SRCH):	WESTLEY
Zip (SRCH):	95387
County (SRCH):	STANISLAUS
Site Facility Type:	
Site Facility Name:	
Address:	
City:	
Zip:	
County:	
Street No (DL):	3735
Business Name (DL):	CENTRAL VALLEY GROWERS,. LLC - Howard III
Street Name (DL):	Howard Road
City (DL):	Westley
Zip (DL):	95387
County (DL):	Stanislaus
Data Source:	GeoTracker Search Results (SRCH) (as of 19 Aug 2026); GeoTracker Cleanup Sites Data Download (DL) (as of 19 Aug 2026)

GeoTracker Sites Data Download - Site Details

RB Case No:	
Local Case No:	
Begin Date:	2021-06-07 00:00:00
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
CUF Case:	
Local Agency:	
CalEnvScreen Score:	
EPA Region:	9
Qty Rlsd Gallons:	
Potential COC:	
How Discovered:	
Stop Method:	
Stop Description:	
Caseworker:	
Military DoD Site:	No
Leak Reported Dt:	
No Further Action Dt:	
Potential Media of Concern:	
How Discovered Description:	
Calwater Watershed Name:	
DWR GW Subbasin Name:	
Disadvantaged Community:	Disadvantaged Community
Coordinate Source:	
Discharge Cause:	
Discharge Source:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility Project Sub Type:
Calenviroscreen 3 Score: 86-90%
Calenviroscreen 4 Score: 75-80%
File Location:
Claim No:
Claim Status:
A2022 Assembly District: 22
A2022 Congressional District: 13
A2022 Senate District: 4
Site History:

GeoTracker Sites Data Download - Status History

Status: Historical - WDR
Status Date: 2021-06-07 00:00:00

Status: Open - Case Begin Date
Status Date: 2021-06-07 00:00:00

1	2 of 2	NW	0.00 / 0.00	227.17 / 5	STATE OF CALIFORNIA - DWR DELTA FIELD DIVISION 3735 HOWARD RD PATTERSON CA 95360	HAZ GEN

EPA ID: CAC002789674
Facility County: 50
Address 2:
County: Stanislaus
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002789674

2	1 of 1	WNW	0.00 / 0.00	258.28 / 36	PIPELINE SEGMENT T-301-14 HYDROSTATIC TEST WESTLEY CA	FINDS/FRS

Registry ID: 110065377568
FIPS Code:
HUC Code: 18040002
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 13-OCT-15
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: CALEPA
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 18
Census Block Code: 060990033002055
EPA Region Code: 09
County Name: STANISLAUS
US/Mexico Border Ind:
Latitude: 37.536
Longitude: -121.261011
Reference Point:
Coord Collection Method: UNKNOWN
Accuracy Value:
Datum: NAD83

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Source:
Frs Facility Detail Report Url: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110065377568
Program Acronyms:

CA-ENVIROVIEW:352493

3	1 of1	N	0.01 / 37.91	201.64 / -20	Golden Eagle Farms 3553 Howard Rd Westley CA 95387	CHMIRS

Control No: 09-0540
Year: 2009
County: Stanislaus County
URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/80b5820d284cd534882575440082e071?OpenDocument
Notified Date:
Notified Date Time:

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained: No
1 Substance: Ammonia
1 Measure: Lbs.
1 Other:
1 Quantity: UNK
1 Type: VAPOR
1 Pipeline:
1 Vessel >= 300 Tons:
2 Substance:
2 Quantity:
2 Measure:
2 Type:
2 Other:
2 Pipeline:
2 Vessel >= 300 Tons:
3 Substance:
3 Quantity:
3 Measure:
3 Type:
3 Other:
3 Pipeline:
3 Ves >= 300 Tons:
Incident Date: 1/20/2009
Incident Time: 1552
Spill Site: Merchant/Business
Injuries?:
No of Injuries: 0
Fatals?:
No of Fatals: 0
Evacs?:
No of Evacs: 0
Cleanup: Unrecoverable
Site:
Cause: Other
Cause Other: Animal Waste
Dog No:
Water: No
Water Way:
City: Westley
County: Stanislaus County
ZIP: 95387
Admin Agency: Stanislaus County Environmental Resources
Notification Area: AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS
Location: 3553 Howard Rd
Description: *** INITIAL CONTINUOUS RELEASE NOTIFICATION I am calling to make this notification report under section 304 of the Emergency Planning and Community Right to Know Act for an animal feeding operation pursuant to the EPA final rule effective Jan 20th 2009. I am aware of the 30 day in writing requirement subsequent to this report. The substance is being released due to animal manure, urine and flatulation.

Spill Report View

Water:
Document Title: SPILL Report
Spill Site: Merchant/Business
Type: VAPOR
Creation Date: 01/20/2009 03:49 PM

Hazardous Materials Spill Report

Date : 01/20/2009
Time: 1549
Incident Date: 01/20/2009
Incident Time: 1552
Control Cal OES: 09-0540
Control NRC:
Water Involved: No
Name:
Phone:
Ext:
Pag Cell:
Prs Name:
Prs Phone:
Prs Ext:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Drink Wtr Impact:	No	**Prs Pag Cell:**	
Detail for Other:		**Incident Desc:**	
UPRR Rim No:		**Notification Info:**	
DOG Unit:		**Notification List:**	
RWQCB Unit:	5B		
Contained:	No		
Waterway:			
Received By:			
Cleanup By:	Unrecoverable		
Incident Location:	3553 Howard Rd		
Additional County:			
1 Substance:	Ammonia		
1 Qty:	=		
1 Amount :	UNK		
1 Measure:	Lbs.		
1 Type:	VAPOR		
1 Other:			
1 Pipeline:	No		
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty:	=		
2 Amount:			
2 Measure:			
2 Type:			
2 Other:			
2 Pipeline:	No		
2 Ves >= 300 Tns:	No		
3 Substance:			
3 Qty:	=		
3 Amount:			
3 Measure:			
3 Type:			
3 Other:			
3 Pipeline:	No		
3 Ves >= 300 Tons:	No		
Injuries:	No		
Fatality:	No		
Evacuation:	No		
Known Impact:	None		
Agency:	Golden Eagle Farms		
PRS Agency:			
Sec Agency:			
Admin Agency:	Stanislaus County Environmental Resources		
Admin Agency 2:			
On Scene:			
Other on Scene:			
Other Notified:			
Header Unknown:	SAN JOAQUIN VALLEY UNIFIED APCD		
Site:	Merchant/Business		
Reported Cause:	Other Description for Other : Animal Waste		
R R Crssing < 50 Ft:			
Description:	*** INITIAL CONTINUOUS RELEASE NOTIFICATION I am calling to make this notification report under section 304 of the Emergency Planning and Community Right to Know Act for an animal feeding operation pursuant to the EPA final rule effective Jan 20th 2009. I am aware of the 30 day in writing requirement subsequent to this report. The substance is being released due to animal manure, urine and flatulation.		

4	1 of4	SE	0.01 / 73.91	253.15 / 31	**TURLOCK IRRIGATION DISTRICT** **3396 NEEDHAM ROAD** **WESTLEY CA 95387**	EMISSIONS

2011 Criteria Data

Facility ID:	7803	**CERR Code:**	
Facility SIC Code:	4941	**TOGT:**	. 00029468927252222538293216630196936542

6696

CO:	50	***ROGT:***	.0000269345995085314
Air Basin:	SJV	***COT:***	.000192607796485536
District:	SJU	***NOXT:***	.0000849419984500855
COID:	STA	***SOXT:***	.00000246839995495975
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	. 00003746861098634014084507042253521126760563
CHAPIS:		***PM10T:***	.0000372437993204221

2011 Toxic Data

Facility ID:	7803	***COID:***	STA
Facility SIC Code:	4941	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2012 Criteria Data

Facility ID:	7803	***CERR Code:***	
Facility SIC Code:	4941	***TOGT:***	. 0002946892725222253829321663019693654266696
CO:	50	***ROGT:***	.0000269345995085314
Air Basin:	SJV	***COT:***	.000192607796485536
District:	SJU	***NOXT:***	.0000849419984500855
COID:	STA	***SOXT:***	.00000246839995495975
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	. 00003746861098634014084507042253521126760563
CHAPIS:		***PM10T:***	.0000372437993204221

2012 Toxic Data

Facility ID:	7803	***COID:***	STA
Facility SIC Code:	4941	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2013 Criteria Data

Facility ID:	7803	***CERR Code:***	
Facility SIC Code:	4941	***TOGT:***	. 0002889366272824919441460794844253490870003
CO:	50	***ROGT:***	.0000269
Air Basin:	SJV	***COT:***	.000193
District:	SJU	***NOXT:***	.0000849
COID:	STA	***SOXT:***	.00000247
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	. 00003742454728370221327967806841046277665996
CHAPIS:		***PM10T:***	.0000372

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2013 Toxic Data

Facility ID:	7803	***COID:***	STA
Facility SIC Code:	4941	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
4	2 of4	SE	0.01 / 73.91	253.15 / 31	TURLOCK IRRIGATION DISTRICT 3396 NEEDHAM RD WESTLEY CA 95387	EMISSIONS

2008 Criteria Data

Facility ID:	7803	***CERR Code:***	
Facility SIC Code:	4941	***TOGT:***	.00176570016801096280087527352297592997 8118
CO:	50	***ROGT:***	.000161384995356202
Air Basin:	SJV	***COT:***	.00115405496679246
District:	SJU	***NOXT:***	.000508949985355139
COID:	STA	***SOXT:***	.0000147899995744228
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00022450200561246680080482897384305835 0101
CHAPIS:		***PM10T:***	.000223154993578792

2008 Toxic Data

Facility ID:	7803	***COID:***	STA
Facility SIC Code:	4941	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2009 Criteria Data

Facility ID:	7803	***CERR Code:***	
Facility SIC Code:	4941	***TOGT:***	.00176570016801096280087527352297592997 8118
CO:	50	***ROGT:***	.000161384995356202
Air Basin:	SJV	***COT:***	.00115405496679246
District:	SJU	***NOXT:***	.000508949985355139
COID:	STA	***SOXT:***	.0000147899995744228
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00022450200561246680080482897384305835 0101
CHAPIS:		***PM10T:***	.000223154993578792

2009 Toxic Data

Facility ID:	7803	***COID:***	STA
Facility SIC Code:	4941	***DISN:***	SAN JOAQUIN VALLEY APCD

CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
CHAPIS:
CERR Code:

2010 Toxic Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2014 Criteria Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .00072327067277261224489795918367346938 7755
ROGT: .0000673364996351302
COT: .000481519497390836
NOXT: .000212354998849332
SOXT: .00000617099996656179
PMT: .00009367152866748138832997987927565392 354125
PM10T: .0000931094994954765

2014 Toxic Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2015 Criteria Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .00043394199785177228786251342642320085 9291
ROGT: .0000404
COT: .000289
NOXT: .000127
SOXT: .0000037
PMT: .00005623742454728370221327967806841046 277666
PM10T: .0000559

2015 Toxic Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2016 Criteria Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR CODE:
TOGT: .00037593984962406015037593984962406015 0376
ROGT: .000035
COT: .00025
NOXT: .00011
SOXT: .00000321
PMT: .00004869215291750503018108651911468812 877264
PM10T: .0000484

2016 Toxic Data

Facility ID: 7803
Facility SIC Code: 4941
CERR CODE:
COID: STA
CO: 50
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
TS:
HRA:
CH Index:
AH Index:
Air Basin: SJV
District: SJU

2017 Criteria Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .00037593984962406015037593984962406015 0376
ROGT: .0000431
COT: .000308
NOXT: .000136
SOXT: .00000395
PMT: .00004869215291750503018108651911468812 877264
PM10T: .0000596

2017 Toxic Data

Facility ID: 7803
Facility SIC Code: 4941
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2018 Criteria Data

Facility ID:	7803	***CERR Code:***	
Facility SIC Code:	4941	***TOGT:***	.00046294307196562835660580021482277121 3749
CO:	50	***ROGT:***	.0000431
Air Basin:	SJV	***COT:***	.000308
District:	SJU	***NOXT:***	.000136
COID:	STA	***SOXT:***	.00000395
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.000059959758551307847082494969818913480 88531
CHAPIS:		***PM10T:***	.0000596

2018 Toxic Data

Facility ID:	7803	***COID:***	STA
Facility SIC Code:	4941	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2019 Criteria Data

CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
Facility ID:	7803	***ROGT:***	.0000431
District:	SJU	***COT:***	.000308
Facility SIC Code:	4941	***NOXT:***	.000136
CO ID:	STA	***SOXT:***	.00000395
DISN:	SAN JOAQUIN VALLEY APCD		
PM10T:	.0000596		
TOGT:	.00046294307196562835660580021482277121 3749		
PMT:	.000059959758551307847082494969818913480 88531		

2019 Toxic Data

CO:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Faccility ID:	7803	***CERR Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4941	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2020 Criteria Data

CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
Facility ID:	7803	***ROGT:***	.0000337
District:	SJU	***COT:***	.000241
Facility SIC Code:	4941	***NOXT:***	.000106
CO ID:	STA	***SOXT:***	.00000309
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.00036197636949516648764769065520945220 1933		
PMT:	.000046881287726358148893360160965794768611 67		
PM10T:	.0000466		

2020 Toxic Data

CO:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	7803	***CHERR Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4941	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Toxic Data

Co:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	7803	***Cerr Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4941	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Criteria Data

Co:	50	***CHAPIS:***	
Air Basin:	SJV	***Cerr Code:***	
Facility ID:	7803	***ROGT:***	.0000404
District:	SJU	***COT:***	.000289
Facility SIC Code:	4941	***NOXT:***	.000127
CO ID:	STA	***SOXT:***	.0000037
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000361976369495166487647690655209452201933		
PMT:	.000046881287726358148893360160965794768611 67		
PM10T:	.0000559		

2023 Pollutant Data

Facility ID:	7803	***CO:***	50
Facility SIC Code:	4941	***CO ID:***	STA
CERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
ROGT:	.000037708440348506	***NOXT:***	.000118918801099062
COT:	.000269650922492147	***SOXT:***	.00000345576003193855
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000405031582690719656283566058002148227712		
PMT:	.000052456056822833400402414486921529175 0503		
PM10T:	.0000521413204818964		
Source:	2023 Pollutant Data		

2022 Criteria Data

Facility ID:	7803	***District:***	SJU
Facility SIC Code:	4941	***Air Basin:***	SJV
Cerr Code:		***Co:***	50
CHAPIS:		***CO ID:***	STA
ROGT:	.0000391	***NOXT:***	.000123
COT:	.000279	***SOXT:***	.00000358
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000419978517722878625134264232008592910849		
PMT:	.000054325955734406438631790744466800804828 97		
PM10T:	.000054		
Source:	2022 Criteria Data		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2022 Toxic Data

Facility ID:	7803	***CO:***	50
Facility SIC Code:	4941	***Air Basin:***	SJV
CHERR Code:		***District:***	SJU
CHAPIS:		***COID:***	STA
Health Risk Asmt:		***TS:***	
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			
DISN:	SAN JOAQUIN VALLEY APCD		
Source:	2022 Toxic Data		

2023 Toxic Data

Facility ID:	7803	***CO:***	50
Facility SIC Code:	4941	***COID:***	STA
CHERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			
DISN:	SAN JOAQUIN VALLEY APCD		
Source:	2023 Toxic Data		

2024 Toxic Data

Facility ID:	7803
Facility SIC Cd:	4941
CERR Code:	
CHAPIS:	
Source:	2024 Toxic Data
TS:	
Co:	50
COID:	STA
Air Basin:	SJV
District:	SJU
Health Risk Asmt:	
Non-Cancer Chronic Haz Ind:	
Non-Cancer Acute Haz Ind:	
DISN:	SAN JOAQUIN VALLEY APCD

2024 Criteria Data

Facility ID:	7803	***CO:***	50
Facility SIC Code:	4941	***CO ID:***	STA
CERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
ROGT:	.000000035014980867345	***NOXT:***	.000000110424602735293
COT:	.000000250390146202335	***SOXT:***	.000000003208920079487 14
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000000062359716593668744434550311 6651825467498		
PMT:	.000000048709196377586217303822937625754527163		
PM10T:	.000000048416941 1993207		
Source:	2024 Criteria Data		

4	***3 of4***	***SE***	***0.01 / 73.91***	***253.15 / 31***	***TURLOCK IRRIGATION DISTRICT 3396 NEEDHAM RD WESTLEY CA***	***FINDS/FRS***

Registry ID:	110054268396
FIPS Code:	06099
HUC Code:	18040002

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	03-DEC-12
Update Date:	01-JUN-17
Interest Types:	AIR EMISSIONS CLASSIFICATION UNKNOWN
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	221310
NAICS Code Descriptions:	WATER SUPPLY AND IRRIGATION SYSTEMS.
Conveyor:	FRS-GEOCODE
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	18
Census Block Code:	060990033002048
EPA Region Code:	09
County Name:	STANISLAUS
US/Mexico Border Ind:	
Latitude:	37.522347
Longitude:	-121.229493
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	50
Datum:	NAD83
Source:	
Frs Facility Detail Report Url:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110054268396
Program Acronyms:	

EIS:13898011

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
4	4 of4	SE	0.01 / 73.91	253.15 / 31	TURLOCK IRRIGATION DISTRICT 3396 NEEDHAM RD WESTLEY CA	FINDS/FRS

Registry ID:	110071806207
FIPS Code:	06099
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	17-JUL-24
Update Date:	27-AUG-24
Interest Types:	
SIC Codes:	4941
SIC Code Descriptions:	WATER SUPPLY
NAICS Codes:	221310
NAICS Code Descriptions:	WATER SUPPLY AND IRRIGATION SYSTEMS.
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	UNITED STATES
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83
Source:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Frs Facility Detail Report Url: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110071806207
Program Acronyms:

CARB-TCH:50SJVSJU7803

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	1 of1	NNW	0.01 / 78.25	215.21 / -7	U.S. Geological Survey CA	PFAS WATER

Organization: U.S. Geological Survey
Monitoring Location Identifier: USGS-373223121150201
Latitude: 37.53966666666666
Longitude: -121.2505
State Territory or Tribe: CA
State Other:
Provider: USGS
EPA Region: 09
Huc: 18040002
Ejscreen Report:
Count: 1

Project Detail(s)

Activity Identifier: b27a761d-6672-428b-9089-0b1cd16dcc09
Location Name: 004S007E31NU01M
Fish Species:
Environmental Media Name: Water
Activity Type Code: Sample - Routine, regular
Project Identifier: 09U3SGS00
Project Name:
Project File Url:
Year: 2023
Qapp Approval Agency Name:
Qapp Approved: No

Sample Result(s)

Pfas Chemical Name: Fluorotelomer sulfonate 8:2
Cas No: 39108-34-4
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 7.8
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 5/8/2023
Laboratory Accreditation Indic:
Activity Comment: Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: Perfluorotridecanoate
Cas No: 862374-87-6
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:

Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorohexanesulfonate
Cas No:	108427-53-8
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorodecanesulfonate
Cas No:	126105-34-8
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorobutanoate
Cas No:	45048-62-2
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	3.9
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv

Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: 4,8-dioxa-3H-perfluorononanoate
Cas No: -
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 7.8
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 5/8/2023
Laboratory Accreditation Indic:
Activity Comment: Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: Perfluoroundecanoate
Cas No: 196859-54-8
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 2.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 5/8/2023
Laboratory Accreditation Indic:
Activity Comment: Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate
Cas No: 756426-58-1
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 7.8
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 5/8/2023
Laboratory Accreditation Indic:
Activity Comment: Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: Perfluorodecanoate
Cas No: 73829-36-4
Act Media Subdiv Nm: Groundwater

Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Fluorotelomer sulfonate 4:2
Cas No:	757124-72-4
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	7.8
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorobutanesulfonate
Cas No:	45187-15-3
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorooctanesulfonate
Cas No:	45298-90-6
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L

Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluoroheptanesulfonate
Cas No:	146689-46-5
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluoropentanoate
Cas No:	45167-47-3
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorononanesulfonate
Cas No:	474511-07-4
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluoropentanesulfonate
Cas No:	175905-36-9
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorododecanoate
Cas No:	171978-95-3
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluoro(2-propoxypropanoate)
Cas No:	122499-17-6
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	3.9
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate
Cas No:	-
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	

Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	7.8
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	N-Methylperfluorooctanesulfonamidoacetate
Cas No:	2355-31-9
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	3.9
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorotetradecanoate
Cas No:	365971-87-5
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluoroheptanoate
Cas No:	120885-29-2
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv

Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: PFOA ion
Cas No: 45285-51-6
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 2.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 5/8/2023
Laboratory Accreditation Indic:
Activity Comment: Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: Perfluorononanoate
Cas No: 72007-68-2
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 2.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 5/8/2023
Laboratory Accreditation Indic:
Activity Comment: Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: N-Ethylperfluorooctanesulfonamidoacetate
Cas No: 2991-50-6
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 3.9
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 5/8/2023
Laboratory Accreditation Indic:
Activity Comment: Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment: Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name: Perfluorooctanesulfonamide
Cas No: 754-91-6
Act Media Subdiv Nm: Groundwater

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	3.9
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	Perfluorohexanoate
Cas No:	92612-52-7
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	2.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

Sample Result(s)

Pfas Chemical Name:	1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-
Cas No:	27619-97-2
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	7.8
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	5/8/2023
Laboratory Accreditation Indic:	
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e-5b2d-480c-abaf-4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2304527-003. SGS Sample: FC5536-3

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6 | ***1 of2*** | ***NNW*** | ***0.01 / 78.31*** | ***215.21 / -7*** | ***CA*** | ***PFAS GW***

Well ID:	S17-SJV04	**SRS Latitude:**	37.5397
Gm Dataset Name:	GAMA_USGS	**SRS Longitude:**	-121.2505
Gm Data Source:	USGS	**Latitude:**	37.5397
Gm Well Category:	Municipal	**Longitude:**	-121.2505
SRS Datum:			
Gm Altwell Id1:	373223121150201		
Gm Altwell Id2:			
Gm Altwell Id3:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Well Details

Gm Cas No:		**SRC Chemical:**	PFHpA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFHPA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluoroheptanoic acid (PFHpA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFOS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFOS	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorooctane sulfonate (PFOS)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFDS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFDSA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorodecane sulfonic acid (PFDS)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFPeS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFPES	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluoropentane sulfonoic acid (PFPeS)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		

Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
SRC Chemical: N-MeFOSAA (linear+branched), water, unfltd, recov
Gm Result:
SRC Result:
Gm Result Modifier: <
SRC Result Modifie: <
Gm Chemical Units: NG/L
Src Chemical Units: ng/l
Gm Chemical Vvl: NMEFOSAA
SRC Report Limit: 3.9
Gm Reporting Limit: 3.9
SRC Analytic Meth: LM102
Gm Well Depth Ft: 440
SRC Well Depth Ft: 440
Gm Chemical Name: N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)
Gm Samp Collection Date: 04/18/2023
Gm Screen Top Depth Ft: 300
Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
SRC Chemical: PFHxS (linear+branched), water, unfltd, recov
Gm Result:
SRC Result:
Gm Result Modifier: <
SRC Result Modifie: <
Gm Chemical Units: NG/L
Src Chemical Units: ng/l
Gm Chemical Vvl: PFHXSA
SRC Report Limit: 2
Gm Reporting Limit: 2
SRC Analytic Meth: LM102
Gm Well Depth Ft: 440
SRC Well Depth Ft: 440
Gm Chemical Name: Perfluorohexanesulfonic acid (PFHxS)
Gm Samp Collection Date: 04/18/2023
Gm Screen Top Depth Ft: 300
Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
SRC Chemical: PFHpS (linear+branched), water, unfltd, recov
Gm Result:
SRC Result:
Gm Result Modifier: <
SRC Result Modifie: <
Gm Chemical Units: NG/L
Src Chemical Units: ng/l
Gm Chemical Vvl: PFHPSA
SRC Report Limit: 2
Gm Reporting Limit: 2
SRC Analytic Meth: LM102
Gm Well Depth Ft: 440
SRC Well Depth Ft: 440
Gm Chemical Name: Perfluoroheptane sulfonic acid (PFHpS)
Gm Samp Collection Date: 04/18/2023
Gm Screen Top Depth Ft: 300
Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
SRC Chemical: 8:2 FTS (linear+branched), water, unfltd, recov
Gm Result:
SRC Result:

Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	8:2FTS	**SRC Report Limit:**	7.8
Gm Reporting Limit:	7.8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	8:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid) (8:2 FTS)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFNA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFNA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorononanoic acid (PFNA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFTrDA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFTRIDA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorotridecanoic acid (PFTrDA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	4:2 FTS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	4:2FTS	**SRC Report Limit:**	7.8
Gm Reporting Limit:	7.8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	4:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid) (4:2 FTS)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFBSA
Gm Reporting Limit: 2
Gm Well Depth Ft: 440
Gm Chemical Name: Perfluorobutane sulfonic acid (PFBS)
Gm Samp Collection Date: 04/18/2023
Gm Screen Top Depth Ft: 300
Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal
SRC Chemical: PFBS (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 2
SRC Analytic Meth: LM102
SRC Well Depth Ft: 440

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFPA
Gm Reporting Limit: 2
Gm Well Depth Ft: 440
Gm Chemical Name: Perfluoropentanoic acid (PFPeA)
Gm Samp Collection Date: 04/18/2023
Gm Screen Top Depth Ft: 300
Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal
SRC Chemical: PFPeA (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 2
SRC Analytic Meth: LM102
SRC Well Depth Ft: 440

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFOSA
Gm Reporting Limit: 3.9
Gm Well Depth Ft: 440
Gm Chemical Name: Perfluorooctane sulfonamide (PFOSAm)
Gm Samp Collection Date: 04/18/2023
Gm Screen Top Depth Ft: 300
Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal
SRC Chemical: PFOSA [FOSA] (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 3.9
SRC Analytic Meth: LM102
SRC Well Depth Ft: 440

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFNDCA
Gm Reporting Limit: 2
SRC Chemical: PFDA (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 2
SRC Analytic Meth: LM102

Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorodecanoic acid (PFDA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFNS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFNS	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorononane sulfonic acid (PFNS)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFTeDA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFTEDA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorotetradecanoic acid (PFTeDA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFHxA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFHA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorohexanoic acid (PFHxA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFOA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFOA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorooctanoic acid (PFOA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	N-EtFOSAA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	NETFOSAA	**SRC Report Limit:**	3.9
Gm Reporting Limit:	3.9	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFBA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFBTA	**SRC Report Limit:**	3.9
Gm Reporting Limit:	3.9	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluorobutyric acid (PFBA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		
Gm Screen Bottom Depth Ft:	380		
SRC Samp Collection Date:	04/18/2023		
SRC Samp Collection Time:	1000		
SRC Screen Top Depth Ft:	300		
SRC Screen Bottom Depth Ft:	380		
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFUnDA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFUNDCA	**SRC Report Limit:**	2
Gm Reporting Limit:	2	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	440	**SRC Well Depth Ft:**	440
Gm Chemical Name:	Perfluoroundecanoic acid (PFUnDA)		
Gm Samp Collection Date:	04/18/2023		
Gm Screen Top Depth Ft:	300		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: 6:2FTS
Gm Reporting Limit: 7.8
Gm Well Depth Ft: 440
SRC Chemical: 6:2 FTS (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 7.8
SRC Analytic Meth: LM102
SRC Well Depth Ft: 440
Gm Chemical Name: 6:2 Fluorotelomer sulfonic acid (1H,1H,2H,2H-Perfluorooctanesulfonic acid) (6:2 FTS)
Gm Samp Collection Date: 04/18/2023
Gm Screen Top Depth Ft: 300
Gm Screen Bottom Depth Ft: 380
SRC Samp Collection Date: 04/18/2023
SRC Samp Collection Time: 1000
SRC Screen Top Depth Ft: 300
SRC Screen Bottom Depth Ft: 380
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	2 of2	NNW	0.01 / 78.31	215.21 / -7	CA	PFAS SAMPLING

Global ID: S17-SJV04
Location ID: S17-SJV04
Status:
Site Use: GAMA - Priority Basin Project (USGS)
Site Type: GAMA - Priority Basin Project (USGS)
Public Water System Name: S17-SJV04
Facility Type:
Latitude: 37.5397
Longitude: -121.2505
Field Pt Class: WSW

PFAS Chemicals

Sample ID:
Matrix: Liquid
Chemical: PFTrDA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluorotridecanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 2
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Sample ID:
Matrix: Liquid
Chemical: PFHpA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluoroheptanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Lab Notes:
Reporting Limit: 2
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID:
Matrix: Liquid
Chemical: PFNS
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluorononane sulfonic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 2
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Sample ID:
Matrix: Liquid
Chemical: PFUnDA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluoroundecanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 2
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Sample ID:
Matrix: Liquid
Chemical: PFNA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluorononanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 2
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Sample ID:
Matrix: Liquid
Chemical: NMeFOSAA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: N-Methyl perfluorooctane sulfonamidoacetic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 3.9
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Sample ID:
Matrix: Liquid
Chemical: PFBA
Analytical Method Cd:
Qualifier: <
Lab Notes:
Reporting Limit: 3.9
Detection Limit:
QRAA: 0
Units: NG/L

Value:				**Date:**	04/18/2023
Chemical Name:		Perfluorobutanoic acid			
Regional Board:					
Treated Drinking Water Dt:					
Treated Drinking Water Qualifi:					
Treated Drinking Water Reporti:					
Treatd Drinking Water Sample:					
Treated Drinking Water Units:					
Treated Drinking Water Value:					
Sample ID:				**Lab Notes:**	
Matrix:	Liquid			**Reporting Limit:**	2
Chemical:	PFOA			**Detection Limit:**	
Analytical Method Cd:				**QRAA:**	0
Qualifier:	<			**Units:**	NG/L
Value:				**Date:**	04/18/2023
Chemical Name:		Perfluorooctanoic acid			
Regional Board:					
Treated Drinking Water Dt:					
Treated Drinking Water Qualifi:					
Treated Drinking Water Reporti:					
Treatd Drinking Water Sample:					
Treated Drinking Water Units:					
Treated Drinking Water Value:					
Sample ID:				**Lab Notes:**	
Matrix:	Liquid			**Reporting Limit:**	2
Chemical:	PFDS			**Detection Limit:**	
Analytical Method Cd:				**QRAA:**	0
Qualifier:	<			**Units:**	NG/L
Value:				**Date:**	04/18/2023
Chemical Name:		Perfluorodecanesulfonic acid			
Regional Board:					
Treated Drinking Water Dt:					
Treated Drinking Water Qualifi:					
Treated Drinking Water Reporti:					
Treatd Drinking Water Sample:					
Treated Drinking Water Units:					
Treated Drinking Water Value:					
Sample ID:				**Lab Notes:**	
Matrix:	Liquid			**Reporting Limit:**	2
Chemical:	PFHpS			**Detection Limit:**	
Analytical Method Cd:				**QRAA:**	0
Qualifier:	<			**Units:**	NG/L
Value:				**Date:**	04/18/2023
Chemical Name:		Perfluoroheptanesulfonic acid			
Regional Board:					
Treated Drinking Water Dt:					
Treated Drinking Water Qualifi:					
Treated Drinking Water Reporti:					
Treatd Drinking Water Sample:					
Treated Drinking Water Units:					
Treated Drinking Water Value:					
Sample ID:				**Lab Notes:**	
Matrix:	Liquid			**Reporting Limit:**	2
Chemical:	PFBS			**Detection Limit:**	
Analytical Method Cd:				**QRAA:**	0
Qualifier:	<			**Units:**	NG/L
Value:				**Date:**	04/18/2023
Chemical Name:		Perfluorobutanesulfonic acid			
Regional Board:					
Treated Drinking Water Dt:					
Treated Drinking Water Qualifi:					
Treated Drinking Water Reporti:					
Treatd Drinking Water Sample:					
Treated Drinking Water Units:					
Treated Drinking Water Value:					

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 2
Chemical: PFDA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: Perfluorodecanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 2
Chemical: PFOS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: Perfluorooctane sulfonic acid (PFOS)
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 7.8
Chemical: 4:2 FTS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: 4:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid)
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 3.9
Chemical: PFOSAm ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: Perfluorooctane sulfonamide
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 2
Chemical: PFPeA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: Perfluoropentanoic acid
Regional Board:

Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 7.8
Chemical: 8:2 FTS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: 8:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid)
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 2
Chemical: PFHxS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: Perfluorohexanesulfonic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 7.8
Chemical: 6:2 FTS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: 6:2 Fluorotelomer sulfonic acid (1H,1H,2H,2H-Perfluorooctanesulfonic acid)
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 2
Chemical: PFTeDA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 04/18/2023
Chemical Name: Perfluorotetradecanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Chemical: PFHxA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluorohexanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Sample ID:
Matrix: Liquid
Chemical: NEtFOSAA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: N-Ethyl perfluorooctane sulfonamidoacetic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 3.9
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Sample ID:
Matrix: Liquid
Chemical: PFPeS
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluoropentane sulfonoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 2
Detection Limit:
QRAA: 0
Units: NG/L
Date: 04/18/2023

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	1 of2	NNW	0.02 / 104.39	214.88 / -7	ALVES RANCH 3565 HOWARD RD WESTLEY CA 95387	HHSS

County:
Tank Details Microfiche: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000219fb.pdf

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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	2 of2	NNW	0.02 / 104.39	214.88 / -7	ALVES RANCH 3565 HOWARD RD WESTLEY CA	HIST TANK

Owner Name: ALFRED ALVES JR
Owner Street: 3565 HOWARD RD
Owner City: WESTLEY
Owner State: CA
Owner Zip: 95387
No of Containers: 2
County: STANISLAUS
Facility State: CA
Facility Zip: 95387

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
8	1 of2	WNW	0.07 / 392.28	257.78 / 36	American Towers - Westley, CA - Site # 302050 4235 Howard Westley CA 95387	CUPA STANISLAUS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CERS ID: 10178721
Facility ID: FA0000021
Facility Status: Active
Mailing Address: 10 Presidential Way - HazMat Compliance
Program Element: 4201 - BUSINESS PLAN FEE 1-4 CHEMICAL, 5015 - CUPA OVERSIGHT STATE SURCHARGE, 9101 - CERS - CA ELECTRONIC REPORTING SYSTEM FEE
MI City State Zip: Woburn, MA 01801
Mailing State: CA

8	2 of2	WNW	0.07 / 392.28	257.78 / 36	VERIZON WIRELESS - WESTLEY TRUCK STOP 4235 HOWARD RD WESTLEY CA 95387	EMISSIONS

2010 Toxic Data

Facility ID: 7647
Facility SIC Code: 4812
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2011 Criteria Data

Facility ID: 7647
Facility SIC Code: 4812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .000187845109648369547029998804828492888729
ROGT: .0001571700032427908
COT: .001102530022747815
NOXT: .00548067011307925
SOXT: .0000026800017058849
PMT: .000164631150937715676229508196721311475 41
PM10T: .0001606800033152105

2011 Toxic Data

Facility ID: 7647
Facility SIC Code: 4812
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2012 Criteria Data

Facility ID: 7647
Facility SIC Code: 4812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
CERR Code:
TOGT: .000207111279743850484044460380064539261384
ROGT: .0001732900077616797
COT: .0012156100544473147
NOXT: .006042790270657276
SOXT: .00000911600040830671 5

DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00018151640157276403688524590163934426 2295
CHAPIS:		***PM10T:***	.0001771600079350177

2012 Toxic Data

Facility ID:	7647	***COID:***	STA
Facility SIC Code:	4812	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2013 Criteria Data

Facility ID:	7647	***CERR Code:***	
Facility SIC Code:	4812	***TOGT:***	.00024405236198064883323847467273762094 4793
CO:	50	***ROGT:***	.0002144
Air Basin:	SJV	***COT:***	.001509
District:	SJU	***NOXT:***	.00749
COID:	STA	***SOXT:***	.0000113
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00022479508196721311475409836065573770 4918
CHAPIS:		***PM10T:***	.0002194

2013 Toxic Data

Facility ID:	7647	***COID:***	STA
Facility SIC Code:	4812	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2014 Criteria Data

Facility ID:	7647	***CERR Code:***	
Facility SIC Code:	4812	***TOGT:***	.00019730484751294274331246442800227660 7855
CO:	50	***ROGT:***	.0001733323085401202
Air Basin:	SJV	***COT:***	.001215906789684668
District:	SJU	***NOXT:***	.00604426533973775
COID:	STA	***SOXT:***	.00000911822566017508
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00018156071044657336065573770491803278 6885
CHAPIS:		***PM10T:***	.0001772032533958556

2014 Toxic Data

Facility ID:	7647	***COID:***	STA
Facility SIC Code:	4812	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	

Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
CERR Code:

2015 Criteria Data

Facility ID: 7647
Facility SIC Code: 4812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .00039612976664769493454752418895845190 6659
ROGT: .000348
COT: .00244
NOXT: .01215
SOXT: .00001833
PMT: .00036475409836065573770491803278688524 5902
PM10T: .000356

2015 Toxic Data

Facility ID: 7647
Facility SIC Code: 4812
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2016 Criteria Data

Facility ID: 7647
Facility SIC Code: 4812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR CODE:
TOGT: .00020637450199203187250996015936254980 0797
ROGT: .0001813
COT: .001272
NOXT: .00633
SOXT: .00000954
PMT: .00018975409836065573770491803278688524 5901
PM10T: .0001852

2016 Toxic Data

Facility ID: 7647
Facility SIC Code: 4812
CERR CODE:
COID: STA
CO: 50
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
TS:
HRA:
CH Index:
AH Index:
Air Basin: SJV
District: SJU

2017 Criteria Data

Facility ID: 7647
Facility SIC Code: 4812
CERR Code:
TOGT: .

			0002063745019920318725099601593625498007797
CO:	50	***ROGT:***	.0001099
Air Basin:	SJV	***COT:***	.00077
District:	SJU	***NOXT:***	.003833
COID:	STA	***SOXT:***	.00000578
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00018975409836065573770491803278688524590 1
CHAPIS:		***PM10T:***	.0001123

2017 Toxic Data

Facility ID:	7647	***COID:***	STA
Facility SIC Code:	4812	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2018 Criteria Data

Facility ID:	7647	***CERR Code:***	
Facility SIC Code:	4812	***TOGT:***	.00032214001138303927148548662492885600 4554
CO:	50	***ROGT:***	.000283
Air Basin:	SJV	***COT:***	.001981
District:	SJU	***NOXT:***	.00985
COID:	STA	***SOXT:***	.00001486
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00028973843058350100603621730382293762 5754
CHAPIS:		***PM10T:***	.000288

2018 Toxic Data

Facility ID:	7647	***COID:***	STA
Facility SIC Code:	4812	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2019 Criteria Data

CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
Facility ID:	7647	***ROGT:***	.0001846
District:	SJU	***COT:***	.001293
Facility SIC Code:	4812	***NOXT:***	.00643
CO ID:	STA	***SOXT:***	.0000097
DISN:	SAN JOAQUIN VALLEY APCD		
PM10T:	.0001884		
TOGT:	.000210130904951622083096186681844052361 98		
PMT:	.000189537223340040241448692152917505030182		

2019 Toxic Data

CO:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Faccility ID:	7647	***CERR Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4812	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2020 Criteria Data

CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
Facility ID:	7647	***ROGT:***	.00007452
District:	SJU	***COT:***	.0005231
Facility SIC Code:	4812	***NOXT:***	.0026003
CO ID:	STA	***SOXT:***	.000003926
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000084826408651109846328969834945930563460 45		
PMT:	.000076720321931589537223340040241448692152 92		
PM10T:	.00007626		

2020 Toxic Data

CO:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	7647	***CHERR Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4812	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Toxic Data

Co:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	7647	***Cerr Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4812	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Criteria Data

Co:	50	***CHAPIS:***	
Air Basin:	SJV	***Cerr Code:***	
Facility ID:	7647	***ROGT:***	.0000504
District:	SJU	***COT:***	.000354
Facility SIC Code:	4812	***NOXT:***	.001757
CO ID:	STA	***SOXT:***	.00000265
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000084826408651109846328969834945930563460 45		
PMT:	.000076720321931589537223340040241448692152 92		
PM10T:	.0000515		

2023 Pollutant Data

Facility ID:	7647	***CO:***	50
Facility SIC Code:	4812	***CO ID:***	STA

CERR Code:
CHAPIS:
ROGT: .0000705250003002584
COT: .000494725002106279
DISN: SAN JOAQUIN VALLEY APCD
TOGT: .000080196725381235387764384807823516033659 32
PMT: .000072535211576422434607645875251509054325 95
PM10T: .0000721000003069639
Source: 2023 Pollutant Data
Air Basin: SJV
District: SJU
NOXT: .0024592750104703
SOXT: .00000371000001579523

2022 Criteria Data

Facility ID: 7647
Facility SIC Code: 4812
Cerr Code:
CHAPIS:
ROGT: .0000695
COT: .000488
DISN: SAN JOAQUIN VALLEY APCD
TOGT: .000079112122936824132043255549231644849174 73
PMT: .000071529175050301810865191146881287726358 15
PM10T: .0000711
Source: 2022 Criteria Data
District: SJU
Air Basin: SJV
Co: 50
CO ID: STA
NOXT: .002427
SOXT: .000003661

2022 Toxic Data

Facility ID: 7647
Facility SIC Code: 4812
CHERR Code:
CHAPIS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
DISN: SAN JOAQUIN VALLEY APCD
Source: 2022 Toxic Data
CO: 50
Air Basin: SJV
District: SJU
COID: STA
TS: .38

2023 Toxic Data

Facility ID: 7647
Facility SIC Code: 4812
CHERR Code:
CHAPIS:
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
DISN: SAN JOAQUIN VALLEY APCD
Source: 2023 Toxic Data
CO: 50
COID: STA
Air Basin: SJV
District: SJU

2024 Toxic Data

Facility ID: 7647
Facility SIC Cd: 4812
CERR Code:
CHAPIS:
Source: 2024 Toxic Data
TS: .38
Co: 50
COID: STA
Air Basin: SJV
District: SJU
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

DISN: SAN JOAQUIN VALLEY APCD

2024 Criteria Data

Facility ID:	7647	**CO:**	50
Facility SIC Code:	4812	**CO ID:**	STA
CERR Code:		**Air Basin:**	SJV
CHAPIS:		**District:**	SJU
ROGT:	.0001712750018015502	**NOXT:**	.0059725250628218
COT:	.001201475012637675	**SOXT:**	.00000901000009477138

DISN: SAN JOAQUIN VALLEY APCD
TOGT: .000194763477145269729360927905390038662725
PMT: .000176156943502799899396378269617706237425
PM10T: .0001751000018417831
Source: 2024 Criteria Data

9	1 of6	ESE	0.08 / 438.70	235.40 / 13	**Turlock Irrigation District /westley Sub** **3390 NEEDHAM** **WESTLEY CA 95387**	CERS HAZ

Latitude: 37.516800
Longitude: -121.231100

Regulated Programs

EI ID: 10178671 **EI Description:** Chemical Storage Facilities

Evaluations

Eval Date: 08/28/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

inspection this date; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/07/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Routine inspection. Unmanned site. ML; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 01/14/2022
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Conducted routine inspection. No violations cited. -RH; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Document Preparer
Entity Name: Carlos Agueda
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: Turlock Irrigation District
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: Turlock Irrigation District
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (209) 883-8300

Affil Type Desc: Identification Signer
Entity Name: Carlos Agueda
Entity Title: EH&S Division Manager
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: Po Box 949
City: Turlock
State: CA
Country:
Zip Code: 95380
Phone:

Affil Type Desc: Legal Owner
Entity Name: Turlock Irrigation District
Entity Title:
Address: P.O. Box 949
City: Turlock
State: CA
Country: United States
Zip Code: 95380
Phone: (209) 883-8480

Affil Type Desc: Property Owner
Entity Name: Turlock Irrigation District
Entity Title:
Address: P.O. Box 949
City: Turlock

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

State:	CA
Country:	United States
Zip Code:	95381
Phone:	(209) 883-8300
Affil Type Desc:	CUPA District
Entity Name:	Stanislaus Cnty Env Res.
Entity Title:	
Address:	3800 Cornucopia Way, Suite C
City:	Modesto
State:	CA
Country:	
Zip Code:	95358-9494
Phone:	(209) 525-6700
Affil Type Desc:	Environmental Contact
Entity Name:	Carlos Agueda
Entity Title:	
Address:	P.O. Box 949
City:	Turlock
State:	CA
Country:	
Zip Code:	95381
Phone:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	2 of6	ESE	0.08 / 438.70	235.40 / 13	Modesto Irrigation District / Westley Switchyard 3390 NEEDHAM RD WESTLEY CA 95387	CERS HAZ

Latitude:	37.522301
Longitude:	-121.229257

Regulated Programs

EI ID:	10178647	**EI Description:**	Chemical Storage Facilities

Evaluations

Eval Date:	10/25/2016
Violations Found:	No
Eval General Type:	Compliance Evaluation Inspection
Eval Type:	Routine done by local agency
Eval Division:	Stanislaus County Environmental Resources
Eval Program:	HMRRP
Eval Source:	CERS
Eval Notes:	

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date:	08/31/2021
Violations Found:	No
Eval General Type:	Compliance Evaluation Inspection
Eval Type:	Routine done by local agency
Eval Division:	Stanislaus County Environmental Resources
Eval Program:	HMRRP
Eval Source:	CERS
Eval Notes:	

Conducted Routine Inspection. No Violations Cited. -RH; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date:	08/02/2013
Violations Found:	No
Eval General Type:	Compliance Evaluation Inspection

Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Business Plan and SPCC Plans are maintained on site. Facility is exempt however from SPCC as storage of petroleum product is in electrical equipment. TM; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Operator
Entity Name: Modesto Irrigation District
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (209) 526-7373

Affil Type Desc: Parent Corporation
Entity Name: Modesto Irrigation District
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Identification Signer
Entity Name: Alex Fontana
Entity Title: Environmental Compliance Officer
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: Modesto Irrigation District
Entity Title:
Address: PO Box 4060
City: Modesto
State: CA
Country: United States
Zip Code: 95352
Phone: (209) 526-7373

Affil Type Desc: Document Preparer
Entity Name: Alex Fontana
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: Modesto Irrigation District
Entity Title:
Address: PO Box 4060
City: Modesto
State: CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Country: United States
Zip Code: 95352
Phone: (209) 526-7373

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: PO Box 4060
City: Modesto
State: CA
Country:
Zip Code: 95352
Phone:

Affil Type Desc: CUPA District
Entity Name: Stanislaus Cnty Env Res.
Entity Title:
Address: 3800 Cornucopia Way, Suite C
City: Modesto
State: CA
Country:
Zip Code: 95358-9494
Phone: (209) 525-6700

Affil Type Desc: Environmental Contact
Entity Name: Alex Fontana
Entity Title:
Address: PO Box 4060
City: Modesto
State: CA
Country:
Zip Code: 95352
Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	3 of6	ESE	0.08 / 438.70	235.40 / 13	**Turlock Irrigation District /Westley Sub** **3390 Needham** **Westley CA 95387**	CUPA STANISLAUS

CERS ID: 10178671
Facility ID: FA0001608
Facility Status: Active
Mailing Address: Po Box 949
MI City State Zip: Turlock, CA 95380
Mailing State: CA
Program Element: 4201 - BUSINESS PLAN FEE 1-4 CHEMICAL, 5015 - CUPA OVERSIGHT STATE SURCHARGE, 9101 - CERS - CA ELECTRONIC REPORTING SYSTEM FEE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	4 of6	ESE	0.08 / 438.70	235.40 / 13	**Modesto Irrigation District / Westley Switchyard** **3390 Needham Rd** **Westley CA 95387**	CUPA STANISLAUS

CERS ID: 10178647
Facility ID: FA0001549
Facility Status: Active
Mailing Address: PO Box 4060
MI City State Zip: Modesto, CA 95352
Mailing State: CA
Program Element: 4201 - BUSINESS PLAN FEE 1-4 CHEMICAL, 5015 - CUPA OVERSIGHT STATE SURCHARGE, 9101 - CERS - CA ELECTRONIC REPORTING SYSTEM FEE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	5 of6	ESE	0.08 / 438.70	235.40 / 13	**MODESTO IRRIGATION DISTRICT** **3390 NEEDHAM RD** **WESTLEY CA**	EMISSIONS

2015 Criteria Data

Facility ID:	9015	***CERR Code:***	
Facility SIC Code:	4911	***TOGT:***	.00148227712137486573576799140708915145 0054
CO:	50	***ROGT:***	.000138
Air Basin:	SJV	***COT:***	.000876
District:	SJU	***NOXT:***	.000601
COID:	STA	***SOXT:***	.000015
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00022032193158953722334004024144869215 2918
CHAPIS:		***PM10T:***	.000219

2015 Toxic Data

Facility ID:	9015	***COID:***	STA
Facility SIC Code:	4911	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Criteria Data

Facility ID:	9015	***CERR CODE:***	
Facility SIC Code:	4911	***TOGT:***	.00234156820622986036519871106337271750 8056
CO:	50	***ROGT:***	.000218
Air Basin:	SJV	***COT:***	.00139
District:	SJU	***NOXT:***	.000951
COID:	STA	***SOXT:***	.0000238
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00034909456740442655935613682092555331 992
CHAPIS:		***PM10T:***	.000347

2016 Toxic Data

Facility ID:	9015	***TS:***	
Facility SIC Code:	4911	***HRA:***	
CERR CODE:		***CH Index:***	
COID:	STA	***AH Index:***	
CO:	50	***Air Basin:***	SJV
DISN:	SAN JOAQUIN VALLEY APCD	***District:***	SJU
CHAPIS:			

2017 Criteria Data

Facility ID:	9015	***CERR Code:***	
Facility SIC Code:	4911	***TOGT:***	.00234156820622986036519871106337271750 8056
CO:	50	***ROGT:***	.000101
Air Basin:	SJV	***COT:***	.000644
District:	SJU	***NOXT:***	.000441
COID:	STA	***SOXT:***	.000011
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.00034909456740442655935613682092555331

992

CHAPIS: ***PM10T:*** .000161

2017 Toxic Data

Facility ID: 9015
Facility SIC Code: 4911
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2018 Criteria Data

Facility ID: 9015
Facility SIC Code: 4911
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .00107411385606874328678839957035445757 2503
ROGT: .0001
COT: .000637
NOXT: .000437
SOXT: .0000109
PMT: .00015995975855130784708249496981891348 0885
PM10T: .000159

2018 Toxic Data

Facility ID: 9015
Facility SIC Code: 4911
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2019 Criteria Data

CO: 50
Air Basin: SJV
Facility ID: 9015
District: SJU
Facility SIC Code: 4911
CO ID: STA
DISN: SAN JOAQUIN VALLEY APCD
PM10T: .000173
TOGT: .00116004296455424274973147153598281417830 3
PMT: .00017404426559356136820925553319919517102 6
CHAPIS:
CERR Code:
ROGT: .000108
COT: .00069
NOXT: .000473
SOXT: .0000118

2019 Toxic Data

CO: 50
Air Basin: SJV
Faccility ID: 9015
District: SJU
Facility SIC Code: 4911
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TS:
Health Risk Asmt:

Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2020 Criteria Data

CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
Facility ID:	9015	***ROGT:***	.000104
District:	SJU	***COT:***	.000664
Facility SIC Code:	4911	***NOXT:***	.000455
CO ID:	STA	***SOXT:***	.0000114
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.001117078410311493018259935553168635875403		
PMT:	.000167002012072434607645875251509054325956		
PM10T:	.000166		

2020 Toxic Data

CO:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	9015	***CHERR Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4911	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Toxic Data

Co:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	9015	***Cerr Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	4911	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Criteria Data

Co:	50	***CHAPIS:***	
Air Basin:	SJV	***Cerr Code:***	
Facility ID:	9015	***ROGT:***	.0001
District:	SJU	***COT:***	.000637
Facility SIC Code:	4911	***NOXT:***	.000437
CO ID:	STA	***SOXT:***	.0000109
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.001117078410311493018259935553168635875403		
PMT:	.000167002012072434607645875251509054325956		
PM10T:	.000159		

2022 Criteria Data

Facility ID:	9015	***District:***	SJU
Facility SIC Code:	4911	***Air Basin:***	SJV
Cerr Code:		***Co:***	50
CHAPIS:		***CO ID:***	STA
ROGT:	.000103	***NOXT:***	.00045
COT:	.000657	***SOXT:***	.0000113
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.001106337271750805585392051557465091299678		
PMT:	.000164989939637826961770623742454728370221		
PM10T:	.000164		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Source: 2022 Criteria Data

2022 Toxic Data

Facility ID:	9015	**CO:**	50
Facility SIC Code:	4911	**Air Basin:**	SJV
CHERR Code:		**District:**	SJU
CHAPIS:		**COID:**	STA
Health Risk Asmt:		**TS:**	
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

DISN: SAN JOAQUIN VALLEY APCD
Source: 2022 Toxic Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	6 of6	ESE	0.08 / 438.70	235.40 / 13	MODESTO IRRIGATION DISTRICT 3390 NEEDHAM RD WESTLEY CA 95363	EMISSIONS

2023 Pollutant Data

Facility ID:	9015	**CO:**	50
Facility SIC Code:	4911	**CO ID:**	STA
CERR Code:		**Air Basin:**	SJV
CHAPIS:		**District:**	SJU
ROGT:	.000103231994490065	**NOXT:**	.000450466885047555
COT:	.000656930874027684	**SOXT:**	.0000112616721261889

DISN: SAN JOAQUIN VALLEY APCD
TOGT: .001108829156713909774436090225563909774436
PMT: .000165224062884226358148893360160965794769
PM10T: .000164232718506921
Source: 2023 Pollutant Data

2023 Toxic Data

Facility ID:	9015	**CO:**	50
Facility SIC Code:	4911	**COID:**	STA
CHERR Code:		**Air Basin:**	SJV
CHAPIS:		**District:**	SJU
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

DISN: SAN JOAQUIN VALLEY APCD
Source: 2023 Toxic Data

2024 Toxic Data

Facility ID:	9015
Facility SIC Cd:	4911
CERR Code:	
CHAPIS:	
Source:	2024 Toxic Data
TS:	
Co:	50
COID:	STA
Air Basin:	SJV
District:	SJU
Health Risk Asmt:	
Non-Cancer Chronic Haz Ind:	
Non-Cancer Acute Haz Ind:	
DISN:	SAN JOAQUIN VALLEY APCD

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2024 Criteria Data

Facility ID:	9015	***CO:***	50
Facility SIC Code:	4911	***CO ID:***	STA
CERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
ROGT:	.000103231994490065	***NOXT:***	.000450466885047555
COT:	.000656930874027684	***SOXT:***	.0000112616721261889
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000183850390899492430988423864648263579697		
PMT:	.000165224062884226358148893360160965794769		
PM10T:	.000164232718506921		
Source:	2024 Criteria Data		

10	*1 of2*	***WNW***	***0.09 / 471.26***	***299.36 / 77***	***Crimson Pipeline Westley Station 4150 HOWARD RD WESTLEY CA 95387***	***CERS HAZ***

Latitude:	37.532455
Longitude:	-121.259743

Regulated Programs

EI ID:	10157411	***EI Description:***	Chemical Storage Facilities

Evaluations

Eval Date:	08/29/2013
Violations Found:	No
Eval General Type:	Compliance Evaluation Inspection
Eval Type:	Routine done by local agency
Eval Division:	Stanislaus County Environmental Resources
Eval Program:	HMRRP
Eval Source:	CERS
Eval Notes:	

Routine insp. No violations (pending employee training records to be provided by the safety office at headquarters) ML; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date:	12/13/2016
Violations Found:	No
Eval General Type:	Compliance Evaluation Inspection
Eval Type:	Routine done by local agency
Eval Division:	Stanislaus County Environmental Resources
Eval Program:	HMRRP
Eval Source:	CERS
Eval Notes:	

inspection; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date:	03/13/2024
Violations Found:	No
Eval General Type:	Compliance Evaluation Inspection
Eval Type:	Routine done by local agency
Eval Division:	Stanislaus County Environmental Resources
Eval Program:	HMRRP
Eval Source:	CERS
Eval Notes:	

The items above have been inspected. If there were violations, this document constitutes a Summary of Violations/Notice to Comply. If there were Class I violations, this document constitutes a Notice of Violation. To verify compliance, a reinspection may occur at any time after the indicated correction date for each violation. Non-compliance could result in re-inspection fees, permit revocation and/or administrative, civil, or criminal penalties. Any time granted for the correction of the violation(s) does not preclude enforcement action by the Department of Environmental Resources, Hazardous Materials Division or any other agencies. No violations cited this facility is in compliance- MW; Note: data in [EVAL Notes] field for some records is truncated from

the source.

Affiliations

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 1900 Main Street #600
City: Irvine
State: CA
Country:
Zip Code: 92614
Phone:

Affil Type Desc: Environmental Contact
Entity Name: Crimson Environmental
Entity Title:
Address: 1900 Main Street #600
City: Long Beach
State: CA
Country:
Zip Code: 90806
Phone:

Affil Type Desc: Operator
Entity Name: Crimson Pipeline, L.P.
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (866) 351-7473

Affil Type Desc: Legal Owner
Entity Name: San Pablo Bay Pipeline Company LLC
Entity Title:
Address: 1900 Main Street #600
City: Irvine
State: CA
Country: United States
Zip Code: 92614
Phone: (562) 285-4072

Affil Type Desc: Identification Signer
Entity Name: Jessica McDonald
Entity Title: Environmental Specialist
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Document Preparer
Entity Name: Jessica McDonald
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: San Pablo Bay Pipeline Company LLC
Entity Title:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Address: 1900 Main Street, Suite 600
City: Irvine
State: CA
Country: United States
Zip Code: 92614
Phone: (562) 285-4100

Affil Type Desc: CUPA District
Entity Name: Stanislaus Cnty Env Res.
Entity Title:
Address: 3800 Cornucopia Way, Suite C
City: Modesto
State: CA
Country:
Zip Code: 95358-9494
Phone: (209) 525-6700

Affil Type Desc: Parent Corporation
Entity Name: Crimson Pipeline, LLC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
10	2 of2	WNW	0.09 / 471.26	299.36 / 77	Westley Station 4150 Howard Rd Westley CA 95387	CUPA STANISLAUS

CERS ID: 10157411
Facility ID: FA0001721
Facility Status: Active
Mailing Address: 3760 Kilroy Airport Way #300
Program Element: 4201 - BUSINESS PLAN FEE 1-4 CHEMICAL, 5015 - CUPA OVERSIGHT STATE SURCHARGE, 9101 - CERS - CA ELECTRONIC REPORTING SYSTEM FEE

MI City State Zip: Long Beach, CA 90806
Mailing State: CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
11	1 of1	ESE	0.11 / 596.98	232.28 / 10	BAYS RANCH INC 3036 NEEDHAM RD WESTLEY CA	RCRA NON GEN

Handler ID: CAL000365132
Generator Status: N
Recycler Activity?: NO
Recycler Activity Note: This facility has not been identified as a Recycler Facility from both the RCRA Handler and Biennial Report Modules.
Public Notes:

Contact DTSC for information.

Violation/Evaluation Summary

Note: NO RECORDS: As of Aug 2026, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer: No
Mixed Waste Gen: No
Transporter: No
Transfer Facility: No
Recycler: No

Used Oil Transpor: No
Used Oil Trans Fac: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No

Onsite Burner Exem:	No	**Commercial TSD:**	No
Furnace Exemption:	No	**Recycl Nonstorage:**	No
Underground Injec:	No		
Used Oil Market Burner:	No		
Used Oil Spec Marketer:	No		

Additional Handler Summary Details

Source Type:	I	**NAIC 1:**	56299
Seq No:	2	**NAIC 2:**	
Non Notifier:		**NAIC 3:**	
Receive Date:	20250131	**NAIC 4:**	
Active Site:	H----	**State:**	CA
Land Type:		**Location Latitude:**	37.522305
In Handler Univ:	Yes	**Location Longitude:**	-121.225989
In A Universe:	Yes	**Loc GIS Primary:**	No
Gen Status:	N	**Loc GIS Origin:**	AG
Report Cycle:		**State District Owner:**	
Accessibility:		**State District:**	
Region:	09		

Fed Waste Gen Owner:	HQ
State Waste Generator Owner:	CA
State Waste Generator:	2
Short Term Generator:	No
Uni Waste:	Yes
Universal Waste Dest Facility:	Yes
Federal Universal Waste:	No
As Federally Regulated Tsdf:	------
As Converter Tsdf:	------
As State Regulated Tsdf:	------
As State Regulated Handler:	---
Federal Indicator:	---
Hsm:	N
Subpart K:	----
GPRA Permit:	N
GPRA Renewal:	N
Permit Renewal Wrkld:	------
Permwrk ID:	------
Perm Prog:	------
Pcwrkld:	------
Closwrkld:	------
GPRA Ca:	No
Cawrkld:	No
Subjca Tsd Discretion:	No
NCAPS:	No
EC Indicator:	N
Ca725 Indicator:	N
Ca750 Indicator:	N
Operating Tsdf:	------
Full Enforcement:	------
Snc:	No
Unaddressed Snc:	No
Addressed Snc:	No
Snc With Comp Sched:	No
Fa Required:	-----
Hhandler Last Change:	20250211
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Slab Importer:	No
Slab Exporter:	No
Manifest Broker:	No
Subpart P:	N
Contact Language:	EN
Handler Name:	BAYS RANCH INC
Location Street No:	
Location Street1:	3036 NEEDHAM RD
Location Street2:	
Location City:	WESTLEY

Location State:	CA
Location Zip:	95387
Location County Code:	CA099
Location County Name:	STANISLAUS
Location Country:	US
Contact Name:	KENNETH E BAYS
Contact Street No:	
Contact Street1:	3036 NEEDHAM RD
Contact Street2:	
Contact City:	WESTLEY
Contact State:	CA
Contact Zip:	95387
Contact Country:	US
Contact Phone & Ext:	209-541-6126
Contact Fax:	
Contact Email Address:	KEN@BAYSRANCH.COM
Contact Title:	
Owner Name:	BAYS RANCH INC
Owner Type:	O
Owner Seq:	1
Operator Name:	KENNETH E BAYS
Operator Type:	O
Operator Seq:	2

Hazardous Waste Handler Details

Seq No:	1
Receive Date:	20110629
Handler Name:	BAYS RANCH INC
Fed Waste Generator:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer
TSD Activity:	N

Hazardous Waste Handler Details

Seq No:	2
Receive Date:	20250131
Handler Name:	BAYS RANCH INC
Fed Waste Generator:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer
TSD Activity:	N

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street1:**	3036 NEEDHAM RD
Name:	KENNETH E BAYS	**Street2:**	
Dt Became Current:		**City:**	WESTLEY
Dt Ended Current:		**State:**	CA
Phone:	209-541-6126	**Country:**	
Source Type:	Implementer	**Zip:**	95387
Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street1:**	3036 NEEDHAM RD
Name:	KENNETH E BAYS	**Street2:**	
Dt Became Current:		**City:**	WESTLEY
Dt Ended Current:		**State:**	CA
Phone:	209-541-6126	**Country:**	US
Source Type:	Implementer	**Zip:**	95387
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street1:**	3036 NEEDHAM RD
Name:	BAYS RANCH INC	**Street2:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Dt Became Current:		**City:**	WESTLEY
Dt Ended Current:		**State:**	CA
Phone:	209-541-6126	**Country:**	US
Source Type:	Implementer	**Zip:**	95387
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street1:**	3036 NEEDHAM RD
Name:	BAYS RANCH INC	**Street2:**	
Dt Became Current:		**City:**	WESTLEY
Dt Ended Current:		**State:**	CA
Phone:	209-541-6126	**Country:**	
Source Type:	Implementer	**Zip:**	95387

Historical Handler Details

Receive Dt:	20110629
Generator Code Description:	Not a Generator, Verified
Handler Name:	BAYS RANCH INC

12	1 of1	WNW	0.16 / 856.25	392.04 / 170	**MODESTO ENERGY L.P.** **4549 INGRAM CREEK RD** **WESTLEY CA**	LDS

Facility ID:	L10009904743	**RWQCB Region (DL):**	CENTRAL VALLEY RWQCB (REGION 5S)
Global ID:	L10009904743	**Longitude:**	-121.261692
Cleanup Status:	OPEN AS OF 1/1/1965	**Latitude:**	37.532559
Site Facility Type:	LAND DISPOSAL SITE	**Census Tract (SRCH):**	6099003300
Site Fac Type (SRCH):	LAND DISPOSAL SITE		
Address:	4549 INGRAM CREEK RD		
City:	WESTLEY		
County:	Stanislaus		
State:	CA		
Zip:	95387		
Data Source:	GeoTracker Cleanup Sites Data Download (DL) (as of 19 Aug 2026); GeoTracker Search Results Report (as of 20 Jul 2026); GeoTracker Search Results (SRCH) (as of 19 Aug 2026)		

GeoTracker Sites Data Download – Site Details

RB Case No:	5C502034001
Loc Case No:	
Status:	Open
Status Date:	1/1/1965
Begin Date:	
Case Type:	Land Disposal Site
Cal Enviroscreen:	
Qty Released Gallons:	
CUF Case:	
EPA Region:	9
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Case Worker:	
Local Agency:	
File Location:	
Potential COC:	
Military DoD Site:	No
Leak Reported Dt:	
No Further Action Dt:	
Potential Media of Concern:	
How Discovered:	
How Discovered Description:	
Stop Method:	
Stop Description:	
Calwater Watershed Name:	Delta-Mendota Canal - Patterson (541.10)
DWR GW Subbasin Name:	San Joaquin Valley - Delta-Mendota (5-022.07)
Disadvantaged Community:	
Discharge Cause:	
Coordinate Source:	Google Geocode

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Discharge Source:
Facility Project Sub Type: Unknown
Calenviroscreen 3 Score: 86-90%
Calenviroscreen 4 Score: 75-80%
Claim No:
Claim Status:
Site History:

GeoTracker Search - Facilities

Site Facility Name: MODESTO ENERGY L.P.
Site Facility Type: LAND DISPOSAL SITE
Cleanup Status: OPEN AS OF 1/1/1965
Project Status:
Potential COC: NONE SPECIFIED
WDR Place Type:
Wdr File No:
Wdr Order No:
Address: 4549 INGRAM CREEK RD
City: WESTLEY
Zip: 95387
County: STANISLAUS
Cuf Claim No:
CUF Priority Assig:
CUF Amount Paid:
Designated Beneficial Use: MUN, AGR, IND, PROC
Designated Beneficl Use Desc: Municipal and Domestic Supply, Agricultural Supply, Industrial Service Supply, Industrial Process Supply
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=L10009904743
Cleanup Status Detail: OPEN AS OF 1/1/1965
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=L10009904743&tabname=regulatoryhistory
Potential Media of Concern: NONE SPECIFIED
User Defined Beneficial Use:
DWR GW Sub Basin: San Joaquin Valley - Delta-Mendota (5-022.07)
Calwater Watershed Name: Delta-Mendota Canal - Patterson (541.10)
Post Closure Site Management:
Future Land Use:
Facility Type: * UNKNOWN
Composting Method:
Gndwater Monitoring Frequen:
Cleanup Oversight Agencies: CENTRAL VALLEY RWQCB (REGION 5S) (LEAD) - CASE #: 5C502034001
File Location:
Site History:

No site history available

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
13	1 of10	WNW	0.19 / 1,019.09	259.44 / 38	Joe's Travel Plaza 4415 HOWARD WESTLEY CA 95387	CERS TANK

Site ID: 126364
Latitude: 37.538567
Longitude: -121.263359

Regulated Programs

EI ID: 10178561
EI Description: Hazardous Waste Generator

EI ID: 10178561
EI Description: Underground Storage Tank

EI ID: 10178561
EI Description: Aboveground Petroleum Storage

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 09/16/2020. OBSERVATION: The SPCC plan does not adequately describe the overfill prevention methods, and devices/systems used for all four of the diesel tanks, as the sensors are not mentioned in detail. During the inspection it was said that these tanks were using an electronic sensor to prevent overfill. CORRECTIVE ACTION: Please describe the overfill prevention methods and devices/systems used for all four diesel tanks.

Violation Description:

Failure to adequately describe in the SPCC Plan, overfill prevention methods, including a description of the devices or systems in place for each container to prevent overfills.

Violations

Violation Date: 02/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Notes:

Returned to compliance on 02/26/2019. rain water in 87 and 91 sumps. cleaned durin the inspection.

Violation Description:

Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.

Violations

Violation Date: 04/14/2017 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 05/04/2017. Biannual Integrity testing has not been documented as referenced in SPCC plan. 4/14/2017, Integrity Testing results provided via email. 5/3/2017-MTM

Violation Description:

Failure to ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 08/24/2020. OBSERVATION: During the review of the SPCC plan, there were a few containers/tanks missing that were seen at the facility at the time of inspection including: the generator (which contains oil) and two 55-gallon oily water drums. CORRECTIVE ACTION: Please include the type of oil and capacity of oil that is held in the generator as well as the two 55-gallon drums of oily water stored at the facility.

Violation Description:

Failure to address in the SPCC Plan the type of oil and storage capacity for each fixed container.
For mobile or portable containers, either provide the type of oil and storage capacity, or an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities.

Violations

Violation Date: 03/09/2017 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 04/19/2017. Significant weeping at flange above master pump.-MTM Staining has been addressed. Inline check valve and gaskets replaced 4/19/2017. -MTM

Violation Description:

Violations

Violation Date: 11/13/2023 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 11/16/2023. 22 CCR 12 66262.34(e) OBSERVATION: Two 55 gallon drums, one of fuel filters and hoses, and another of mixed fuel and water were observed without information on the label. CORRECTIVE ACTION: Email photos to the CUPA demonstrating that these two containers are properly labeled with filled out hazardous waste labels.

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 11/13/2023 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Notes:

Returned to compliance on 11/13/2023. 23 CCR 16 2630(d), 2641(a) OBSERVATION: At the time of inspection the sensor in dispenser 6 was not located in the a location that would allow for detection at the earliest possible opportunity. At the time of inspection, technicians moved it to the correct location. CORRECTIVE ACTION: No further action required.

Violation Description:

Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 08/24/2020. OBSERVATION: At the time of inspection, documented annual spill prevention briefings could not be provided for the previous three years. In the SPCC plan, it is mentions that all new hires will be trained on the provisions of the SPCC plan, additionally there will be refresher trainings annually and sign in sheets will be of these will be maintained as appearing in Appendix I. CORRECTIVE ACTION: Moving forward please utilize Appendix I in the SPCC plan to document all employee training and spill prevention briefings.

Violation Description:

Failure to conduct spill prevention briefing for oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 08/24/2020. OBSERVATION: At the time of inspection there were two 55-gallon drums (oily water) found in the containment area along with the diesel tanks. We also found the generator which contains oil (we were not able to confirm the oil type or amount), which was not mentioned in the SPCC. CORRECTIVE ACTION: Please add these drums to the SPCC plan, as well as onto the California Environmental Reporting System (CERS). Please confirm the type and quantity of oil stored in the generator and ensure it is added to the SPCC plan and in CERS.

Violation Description:

Failure to adequately discuss in the SPCC Plan all applicable bulk storage containers, including compatibility with material stored and conditions of storage, and description of sized secondary containment capable of containing the largest single container and sufficient freeboard to contain precipitation.

Violations

Violation Date: 11/13/2023 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Notes:

Returned to compliance on 11/13/2023. 23 CCR 16 2636(f)(2) OBSERVATION: At the time on inspection the 87 MLLD did not go into slow flow as required. The 87 MLLD was replace with a like for like swap at time of inspection. The new MLLD went into slow flow correctly. CORRECTIVE ACTION: No further action required.

Violation Description:

Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.

Violations

Violation Date: 03/09/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)
Violation Notes:

Returned to compliance on 04/18/2017. waste disposal records not located during inspection please provide disposal records

Violation Description:

Failure to record in an operating log and retain for three years the following information for each shipment of recycled or exempted oil:
1) The name and address of the used oil recycling facility or
generator claiming the oil meets the requirements of HSC 6.5 25250.1.
2) The name and address of the facility receiving the shipment.
3) The quantity of oil delivered.
4) The date of shipment or delivery.
5) A cross-reference to the records and documentation required under HSC 6.5 25250.1.

Violations

Violation Date: 04/14/2017 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 04/20/2017. Monthly Inspections have not been documented since 2013. 4/14/2017, Monthly Inspection completed for 4/2017. 4/20/17-MTM

Violation Description:

Failure to comply with one or more of the following requirements:

1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector.

2. Keep written procedures and records of inspections and integrity tests for at least three years.

3. Keep comparison records.

Violations

Violation Date: 11/13/2023 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Notes:

Returned to compliance on 11/16/2023. HSC 6.5 25160.2 OBSERVATION: Owner/Operator failed to comply with one or more consolidated manifesting requirements. The previous 3 years of consolidated manifest receipts must be maintained and provided upon inspection. CORRECTIVE ACTION: Provide the previous 3 years of consolidated hazardous waste manifests.

Violation Description:

Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.

Violations

Violation Date: 09/19/2013 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Notes:

Returned to compliance on 11/06/2013. Financial forms past due. Updated forms received 11/6/13. Facility has returned to compliance.

Violation Description:

UST Program - Administration/Documentation - General

Violations

Violation Date: 10/22/2018 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Notes:

Returned to compliance on 11/16/2018. overfill failed for diesel and regular products. please have overfill retsted and provide passing results by a certified tester.

Violation Description:

Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 09/16/2020. OBSERVATION: The SPCC plan does not adequately discuss the prediction of direction, rate of flow, or total quantity of oil that could be released from a discharge. For example, the direction of discharge, rate of flow, and the total quantity of oil that could be released are not discussed in section 112.7(b) for the any of the diesel tanks, oily water drums, or the generator. CORRECTIVE ACTION: Please

provide the direction, rate of flow calculations, and the total quantity of oil that could be released from a discharge for all of the containers/tanks.

Violation Description:

Failure to include in the SPCC Plan a prediction of the direction, rate of flow, and total quantity of oil that could be discharged for each type of major equipment failure where experience indicates a reasonable potential for equipment failure.

The rate of flow is not required on a Tier I qualified facility SPCC Plan.

Violations

Violation Date: 03/09/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 04/18/2017. label on waste container has withered away please place a legible and complete label

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 11/13/2023 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Notes:

Returned to compliance on 11/16/2023. 22 CCR 12 66262.34(d); HSC 6.5 25123.3(h)(1) OBSERVATION: At the time of inspection, start accumulation date was missing on the drums of fuel hoses and fuel mixed with water. Based on conversation with the store manager, these waste streams have exceeded accumulation time. Owner/Operator is a small quantity generator and failed to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles), or has failed to comply with the conditions of CCR 66262.34(d) and has stored hazardous waste over 90 days. CORRECTIVE ACTION: Dispose of hazardous waste observed on site on 11/13/23. In the future accumulated waste should be labeled with start accumulation date and disposed of within the alotted accumulation time.

Violation Description:

Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met:
(1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms.

(2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f).

(3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.

Violations

Violation Date: 11/20/2024 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Notes:

Returned to compliance on 11/20/2024. 23 CCR 16 2636(f)(2) OBSERVATION: At time of inspection the 87 regular and diesel line leak detectors failed to restrict flow of product through the piping when a leak is detected. The detectors were adjusted to restrict the flow of product as required. CORRECTIVE ACTION: No further action required, violations corrected on site.

Violation Description:

Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 08/24/2020. OBSERVATION: In the SPCC, the plan mentions "The containment area employs no drainage valve and all liquids can be controlled. Any and all liquids retained within the containment system can be contained..within the containment area. No liquid will be evacuated without verification of an oil sheen is performed and mangement approval." During the time of inspection we found a large hole in the retainment border of the containment which was there for the release of any water that accumulates in the containment. This does not match what was stated in the SPCC. CORRECTIVE ACTION: Please update the SPCC to ensure that the proper procedures are being done as it pertains to the drainage of the containment area.

Violation Description:

Failure to adequately discuss in the SPCC Plan facility drainage or drainage controls such as secondary containment around containers and other structures, equipment, and procedures for the control of a discharge.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Notes:

Returned to compliance on 08/24/2020. OBSERVATION: While reviewing the SPCC plan, it was found that the SPCC plan required a 5 year review in 2018 and looking at Appendix K (page 48) of the SPCC, the line for the 2018 plan review has not been signed indicating that the plan was reviewed. CORRECTIVE ACTION: Please ensure that the SPCC plan gets reviewed as outlined, and the review is documented on the correct page.

Violation Description:

Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.

Violations

Violation Date: 06/11/2020 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Notes:

Returned to compliance on 06/11/2020.

Violation Description:

Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

OBSERVATION: While reviewing the SPCC it was found that the plan does not specifically outline the category of each tank or outline the inspection frequency and type that is required per industry standards (STI SP001). After reviewing the inspection records that the facility provided it was determined that the monthly inspections do not cover what is required for the monthly and yearly inspections per industry standards set by STI SP001. Attached to the inspection report will be a copy of the STI monthly and yearly checklists that meets all of the requirements for aboveground storage tanks (AST) inspections. Additionally, each AST needs to be categorized (i.e category 1, 2, or 3) and an inspection schedule needs to be provided based on the category that is determined. Once the tanks are properly categorized per industry standards please follow the proper guidelines that outline the type and frequency for the tanks to be inspected and by whom. CORRECTIVE ACTION: Moving forward, feel

Violation Description:

Failure to discuss in the SPCC Plan procedures to test or inspect each aboveground container for integrity in accordance with industry standards:

1. On a regular schedule.

2. After material repairs are made.

3. By qualified personnel.

4. The frequency and type of testing and inspections based on container size, configuration, and design.

Violations

Violation Date: 03/09/2017 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 04/14/2017. SPCC not made available at time of inspection. Per last inspection on 12/2/2013 SPCC was maintained on site and being implemented. 3/9/2017-MTM SPCC plan since located and available for 4/14/17 inpsection.-MTM

Violation Description:

Failure to maintain a complete copy of the SPCC Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

OBSERVATION: The SPCC plan does not adequately discuss discharge prevention measures for routine handling of petroleum products. For example, the SPCC plan mentions that drivers are "alerted" when 90% capacity is reached when loading diesel fuel, but it fails to mention how they are alerted. Section 112.7(c) (page 24) of SPCC has a general statement regarding prevention systems and lists all possibilities that could be used, please update this section to only mention the measures that are specifically used at this facility. CORRECTIVE ACTION: Please update the SPCC plan to adequately describe how fuel delivery personnel are alerted when filling the diesel tanks. Also, please update the SPCC plan to ensure that the statement regarding prevention systems are specific to this facility and not written as a general list. Please ensure that all items in SPCC are specific to this facility.

Violation Description:

Failure to address in the SPCC Plan discharge prevention measures, including procedures for routine handling of products such as loading/unloading and facility transfers.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Notes:

OBSERVATION: Review of the SPCC plan demonstrates that there are some amendments that need to be made. CORRECTIVE ACTION: Please update the following for the SPCC plan: 1) Please make sure that the SPCC plan addresses all of the tanks located at the facility (Missing two 55-gallon oily water drums, and the oil in the generator). 2) Please update the table of contents. Some of the section codes referenced are not corrrect (i.e. 112.2 (d) does not reference Engineer Certification). 3) Fuel delivery described on page 12 has discharge prevention material that should be included as part of 112.7(a)(3)(ii). 4) It was found that the SPCC plan contains the tanks for the business 'Joes Tire & Lube' (one 2,000 gallon used oil tank, and three 2,000 gallon motor oil tanks). It is recommended that you separate these tanks in your SPCC plan to indicate that they are being used by a different business on-site (since they have their own page for CERS and they submit their information s

Violation Description:

Failure to amend the SPCC Plan within 6 months:

1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility's discharge potential. AND/OR
2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation.

Violations

Violation Date: 11/20/2024 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.7 25292.2(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.2(a)
Violation Notes:

Returned to compliance on 11/20/2024. 23 CCR 16 2711(a)(11); 23 CCR 18 2808.1, 2809-2809.2; HSC 6.7 25292.2(a); HSC 6.75 25299.30-25299.34 OBSERVATION: Financial responsibility documents have not been submitted to the CUPA. Current financial responsibility documents are required to be submitted annually. At time of inspection, certification of financial responsibility and CFO letter were submitted to CERS. CORRECTIVE ACTION: No further action required violations corrected on site.

Violation Description:

Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.

Violations

Violation Date: 09/19/2013 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 11/07/2013. Facility contracted with Environmental Ethics Inc to establish their SPCC on 10/2/2013. Completed SPCC on site and in use 30 days later. Facility has returned to compliance.

Violation Description:

Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan .

Violations

Violation Date: 02/13/2017 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Notes:

Returned to compliance on 03/13/2017. upload responce plan

Violation Description:

Failure to have a UST Response Plan available on site.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 08/24/2020. OBSERVATION: At the time of inspection, documented employee training records could not be provided for the previous three years. In the SPCC plan, it is mentions that all new hires will be trained on the provisions of the SPCC plan, additionally there will be refresher trainings annually and sign in sheets will be of these will be maintained as appearing in Appendix I. CORRECTIVE ACTION: Moving forward please utilize Appendix I in the SPCC plan to document all employee training and spill prevention briefings.

Violation Description:

Failure to provide the following training to all oil-handling personnel:

1. Operation and maintenance of equipment to prevent discharges.

2. Discharge procedure protocols.

3. Applicable pollution control laws, rules, and regulations.

4. General facility operations.

5. Contents of the SPCC Plan.

Violations

Violation Date: 02/13/2017 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Notes:

Returned to compliance on 05/13/2017.

Violation Description:

Failure to submit or update a plot plan.

Violations

Violation Date: 02/13/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 05/13/2017. uploaded complete site map

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 02/13/2017 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Notes:

Returned to compliance on 03/13/2017. upload

Violation Description:

Failure to have a UST Monitoring Plan available on site.

Violations

Violation Date: 02/13/2017 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Notes:

Returned to compliance on 03/13/2017. upload doc

Violation Description:

Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 09/16/2020. OBSERVATION: While reviewing the inspection records that the facility provided it was determined that the monthly inspections do not cover what is required for the monthly and yearly inspections per industry standards set by STI SP001. Attached to the inspection report will be a copy of the STI monthly and yearly checklists that meets all of the requirements for aboveground storage tanks (AST) inspections. Additionally, each AST needs to be categorized (i.e category 1, 2, or 3) and an inspection schedule needs to be provided based on the category that is determined. Once the tanks are property categorized per industry standards please follow the proper guidelines that outline the type and frequency for the tanks to be inspected and by whom. (i.e. the diesel tank (12,000 gallons) falls under category 1 tank that needs to be inspected periodically (monthly and annually per industry standards) as well as every 20 years it needs to have a formal external inspection performed by certified i

Violation Description:

"Failure to test or inspect each aboveground container for integrity based on industry standards as discussed in the SPCC Plan:
1. On a regular schedule.
2. After making material repairs.
3. Use non-destructive testing.
4. Inspect each container's supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas."

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

OBSERVATION: While going through the SPCC, it could not be determined whether or not the liquid level sensing devices are regularly tested to ensure proper operation since they are not mentioned in detail in the plan. The plan mentions that the drivers use a gauge system which displays the tank volume in feet and inches, but is not specific on the type. During the inspection it was said that the tanks use an electronic sensing method. CORRECTIVE ACTION: Please ensure that all liquid level sensing devices are mentioned in plan as well as how they are tested to ensure property operation.

Violation Description:

Failure to regularly test liquid level sensing devices to ensure proper operation.

Violations

Violation Date: 07/27/2020 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 08/24/2020. OBSERVATION: During the inspection a hole was found in the wall of the secondary containment and it was stated it was there for water drainage. Upon further investigation, since the containment area is where the fueling occurs (where the delivery trucks connect their hose and fill the tanks), the area is serving as a secondary containment for the filling. Since it is serving as the containment, in the event of a failure/spill while filling the hole would allow the diesel to leave the containment area. It also could not be determined whether or not the generator which is inside of the containment area is double walled or not, and if it is single walled the oil would also be able to escape from the hole in the event of a release. CORRECTIVE ACTION: Please fill the hole in the secondary containment wall so that it can serve as a sufficient secondary containment for the fuel loading area as well as the generator (if it is single walled) in the event of a release. Please provide picture

Violation Description:

Failure to provide appropriate secondary containment and/or diversionary structures or equipment for the following: bulk storage containers, mobile or portable containers, oil-filled equipment, piping and related appurtenances, mobile refuelers or non-transportation-related tank cars, and transfer areas, equipment and activities and ensure that the entire containment system, including walls and floor, are capable of containing oil and constructed so that any discharge will not escape the containment system before cleanup occurs.

Violations

Violation Date: 11/08/2021 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Notes:

Returned to compliance on 11/08/2021. OBSERVATION RAIN WATER IN THE 91 FILL SUMP CORRECTIVE ACTION WATER CLEANED DURING THE M CERT

Violation Description:

Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.

Violations

Violation Date: 04/14/2017 ***Violation Source:*** CERS
Violation Program: APSA ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Notes:

Returned to compliance on 04/19/2017. Staining noted during previous inspection and part has been ordered. 4/14/17-MTM Staining has been addressed. Inline check valve and gaskets replaced 4/19/2017. -MTM

Violation Description:

Enforcements

Enf Action Date: 02/13/2017 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 03/09/2017 ***Enf Action Program:*** APSA
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 04/14/2017 ***Enf Action Program:*** APSA
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 10/22/2018 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 02/13/2017 ***Enf Action Program:*** UST
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 03/09/2017 ***Enf Action Program:*** HW
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS

Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 07/27/2020
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: APSA
Eval Source: CERS
Eval Notes:

Routine APSA inspection conducted. In addition to the violations in the inspection report, these are some additional findings: -There was some water at the bottom of sump where underground piping was leading to that needs to be cleaned up, also the sensor in that sump needs to be placed upright and at the most bottom of the sump to ensure proper function. - There are a few updates that need to be made in the California Environmental Reporting System (CERS): for the facility APSA submittal the total aboveground storage capacity needs to be updated from 40,000 to 48,110 (from the four diesel tanks plus the two oily water drums) plus the amount of oil in generator), the number of tanks in underground area needs to be updated from 4 to 0, the date of SPCC plan 5 year review needs to be updated. - YN; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/09/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: APSA
Eval Source: CERS
Eval Notes:

SPCC was not available at time of inspection, per last inspection report on 12/2/2013 SPCC was available and being implemented. During visual inspection significant weeping was identified at flange above master pump. Cause of leak must promptly be addressed. Re-inspection required for observation of corrective action and SPCC review.-MTM; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/20/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

inspection this date; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/08/2021
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 09/12/2022
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS

Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/19/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 02/26/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/14/2017
Violations Found: Yes
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: APSA
Eval Source: CERS
Eval Notes:

Monthly Inspections have not been documented for past several years as written in SPCC plan. Biannual integrity testing has not been recorded as noted in Appendix L of SPCC plan. Staining in secondary containment near master pump has been addressed, facility is waiting on replacement gasket for repair. -MTM; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 10/10/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/16/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 12/02/2013
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Stanislaus County Environmental Resources

Eval Program: APSA
Eval Source: CERS
Eval Notes:

Follow up inspection to go over new SPCC Plan for this facility. TM; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/09/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HW
Eval Source: CERS
Eval Notes:

inspection; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 06/11/2020
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/13/2023
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HW
Eval Source: CERS
Eval Notes:

The items above have been inspected. If there were violations, this document constitutes a Summary of Violations/Notice to Comply. If there were Class I violations, this document constitutes a Notice of Violation. To verify compliance, a reinspection may occur at any time after the indicated correction date for each violation. Non-compliance could result in re-inspection fees, permit revocation and/or administrative, civil, or criminal penalties. Any time granted for the correction of the violation(s) does not preclude enforcement action by the Department of Environmental Resources, Hazardous Materials Division or any other agencies. Violations cited, please see report for violation details and return to compliance deadline. - MW; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 09/19/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 11/20/2024
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

The items above have been inspected. If there were violations, this document constitutes a Summary of Violations/Notice to Comply. If there were Class I violations, this document constitutes a Notice of Violation. To verify compliance, a reinspection may occur at any time after the indicated correction date for each violation. Non-compliance could result in re-inspection fees, permit revocation and/or administrative, civil, or criminal penalties. Any time

granted for the correction of the violation(s) does not preclude enforcement action by the Department of Environmental Resources, Hazardous Materials Division or any other agencies. Routine inspection conducted, violations corrected on site. No further action required. - MW; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/13/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

inspection; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 02/13/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

inspection; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 10/22/2018
Violations Found: Yes
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

overfill inspection; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/13/2023
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

The items above have been inspected. If there were violations, this document constitutes a Summary of Violations/Notice to Comply. If there were Class I violations, this document constitutes a Notice of Violation. To verify compliance, a reinspection may occur at any time after the indicated correction date for each violation. Non-compliance could result in re-inspection fees, permit revocation and/or administrative, civil, or criminal penalties. Any time granted for the correction of the violation(s) does not preclude enforcement action by the Department of Environmental Resources, Hazardous Materials Division or any other agencies. All UST violations were corrected on site, no further action required for this program. - MW; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 11/07/2022
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

No violations cited - AA; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/21/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 09/19/2013
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: APSA
Eval Source: CERS
Eval Notes:

Eval Date: 09/27/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 09/19/2013
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 09/19/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HW
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: CUPA District
Entity Name: Stanislaus Cnty Env Res.
Entity Title:
Address: 3800 Cornucopia Way, Suite C
City: Modesto
State: CA
Country:
Zip Code: 95358-9494
Phone: (209) 525-6700

Affil Type Desc: Operator
Entity Name: Kashmir S. Dhoot
Entity Title:
Address:
City:

State:
Country:
Zip Code:
Phone: (209) 894-3040

Affil Type Desc: Environmental Contact
Entity Name: Maria Lainez
Entity Title:
Address: Po Box 952
City: Westley
State: CA
Country:
Zip Code: 95387
Phone:

Affil Type Desc: Identification Signer
Entity Name: Maria Lainez, Manager
Entity Title: Store manager
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: Kgs Dhoot Partnership
Entity Title:
Address: 4415 Howard Road
City: Westley
State: CA
Country: United States
Zip Code: 95387
Phone: (209) 894-3040

Affil Type Desc: Property Owner
Entity Name: Kashmir Dhoot
Entity Title:
Address: P.O. Box 952
City: Westley
State: CA
Country: United States
Zip Code: 95387
Phone: (209) 894-3040

Affil Type Desc: UST Tank Operator
Entity Name: Joes Travel Plaza
Entity Title:
Address: PO Box 952
City: Westley
State: CA
Country: United States
Zip Code: 95387
Phone: (209) 894-3040

Affil Type Desc: Document Preparer
Entity Name: Maria Lainez, Manager
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: Joe's Travel Plaza
Entity Title:
Address:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: Po Box 952
City: Westley
State: CA
Country:
Zip Code: 95387
Phone:

Affil Type Desc: UST Tank Owner
Entity Name: KGS Dhoot Associates Inc.
Entity Title:
Address: PO Box 952
City: Westley
State: CA
Country: United States
Zip Code: 95387
Phone: (209) 894-3040

Affil Type Desc: UST Property Owner Name
Entity Name: KGS DHOOT ASSOCIATES INC.
Entity Title:
Address: PO Box 952
City: Westley
State: CA
Country: United States
Zip Code: 95387
Phone: (209) 894-3040

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
13	2 of10	WNW	0.19 / 1,019.09	259.44 / 38	Joes tire & lube 4415 HOWARD RD WESTLEY CA 95387	CERS TANK

Site ID: 363748
Latitude: 37.538570
Longitude: -121.263360

Regulated Programs

EI ID: 10657078
EI Description: Aboveground Petroleum Storage

EI ID: 10657078
EI Description: Hazardous Waste Generator

Violations

Violation Date: 03/21/2024
Violation Source: CERS
Violation Program: HW
Violation Division: Stanislaus County Environmental Resources
Citation: 22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Notes:

Returned to compliance on 09/27/2024. 22 CCR 12 66262.34(a)(1); 22 CCR 15 66265.195(a), 66265.195(c) OBSERVATION: Daily inspections of the waste oil tank system have not been conducted and documented. A copy of a compliant daily inspection checklist was provided at time of inspection. CORRECTIVE ACTION: Email documentation to the CUPA demonstrating that the tank system is being properly inspected and documented.

Violation Description:

Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.

Violations

Violation Date: 06/17/2016 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Notes:

Returned to compliance on 09/15/2016.

Violation Description:

Failure to electronically update business plan within 30 days of any one of the following events:
A 100 percent or more increase in the quantity of a previously disclosed material.
Any handling of a previously undisclosed hazardous materials at or above reportable quantities.
A change of business address, business ownership, or business name.
A substantial change in the handler's operations that requires modification to any portion of the business plan.

Violations

Violation Date: 08/01/2019 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Notes:

Returned to compliance on 08/26/2019. observation weekly inspection logs were not found Corrective action please conduct weekly inspection and keep weekly log

Violation Description:

Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.

Violations

Violation Date: 06/17/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 40 CFR 1 265.201(c)(3) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.201(c)(3)
Violation Notes:

Returned to compliance on 07/15/2016. please document moving forward

Violation Description:

Failure to inspect hazardous waste tanks at least once each operating day for the following, when present:
(1) Discharge control equipment (e.g., waste feed cutoff systems, by-pass systems, and drainage systems) to ensure that it is in good working order;
(2) Data gathered from monitoring equipment (e.g., pressure and temperature gauges) to ensure that the tank is being operated according to its design;
(3) The level of waste in the tank.

Violations

Violation Date: 03/21/2024 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Notes:

Returned to compliance on 09/27/2024. HSC 6.95 25505.1 OBSERVATION: The business failed to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions. CORRECTIVE ACTION: Notify the property owner in writing that the business is subject to the business plan program and has complied with its provisions. Email a copy of property owner notification letter to the CUPA.

Violation Description:

Failure to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions.

Violations

Violation Date: 06/17/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Notes:

Returned to compliance on 07/15/2016. please document moving forward. They are conduction visual inspections now. 7/15

Violation Description:

Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.

Violations

Violation Date: 03/21/2024 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/04/2024. HSC 6.95 25505, 25508(a)(1) OBSERVATION: The business failed to complete and electronically submit a business plan submittal. Please resubmit the APSA submittal with complete with current dates. CORRECTIVE ACTION: Complete and electronically submit a business plan.

Violation Description:

Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 08/01/2019 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Notes:

Returned to compliance on 08/01/2019. filter drum was open placed lid during inspection

Violation Description:

Failure to meet the following container management requirements:
(a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.
(b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

Violations

Violation Date: 06/17/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Notes:

Returned to compliance on 04/25/2017. hold a hazardous waste training within 30 days

Violation Description:

Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.

Violations

Violation Date: 03/21/2024 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Notes:

Returned to compliance on 09/27/2024. HSC 6.95 25505(a)(4) OBSERVATION: The business did not provide one or more of the following: initial employee training, adequate employee training, at an annual frequency. A HMBP training template was provided at time of inspection. CORRECTIVE ACTION: Provide all employees with required training that includes: safe handling hazardous materials, emergency response procedures, and proper use of response equipment. Email the CUPA records of training.

Violation Description:

Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violations

Violation Date: 03/21/2024 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Notes:

Returned to compliance on 09/27/2024. HSC 6.5 25160.2 OBSERVATION: Owner failed to comply with consolidated manifesting requirements. The owner operator must maintain receipts of consolidated manifests for 3 years. The following manifest receipts were missing on site. (Safety Kleen is the transporter). Manifest Number Shipment Date 008626850SKS 1/4/2023 008626571SKS 1/4/2023 008626980SKS 1/11/2023 008626852SKS 1/11/2023 008626563SKS 1/11/2023 008626540SKS 1/18/2023 008625806SKS 1/18/2023 008625805SKS 1/25/2023 008626842SKS 1/25/2023 008626990SKS 1/25/2023 008625803SKS 2/1/2023 008626541SKS 2/1/2023 008625817SKS 2/8/2023 008626845SKS 2/8/2023 008767928SKS 2/22/2023 008626818SKS 5/10/2023 008861397SKS 5/10/2023 008809365SKS 5/31/2023 008809919SKS 5/31/2023 008870783SKS 6/2/2023 008904880SKS 7/19/2023 008809866SKS 7/19/2023 008904990SKS 8/2/2023 008149082SKS 8/2/2023 008884876SKS 10/18/2023 008979857SKS 10/18/2023 CORRECTIVE ACTION: Contact the transporter (Safety Kleen) and obtain copies o

Violation Description:

Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.

Violations

Violation Date: 06/17/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 04/25/2017. needs to label used absorbent drums

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 06/17/2016 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Stanislaus County Environmental Resources
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Notes:

Returned to compliance on 04/25/2017.

Violation Description:

Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violations

Violation Date: 06/17/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 40 CFR 1 265.201(c)(5) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.201(c)(5)
Violation Notes:

Returned to compliance on 07/15/2016. They are conduction visual inspections now. 7/15

Violation Description:

Failure to inspect hazardous waste tanks for the following, when present:
4) The construction materials of the tank at least weekly to detect corrosion or leaking of fixtures or seams.
5) The construction materials of, and the area immediately surrounding, discharge confinement structures (e.g., dikes) at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation).

Violations

Violation Date: 03/21/2024 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 22 CCR 15 66265.192(h) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(h)
Violation Notes:

Returned to compliance on 09/27/2024. 22 CCR 15 66265.192(h) OBSERVATION: A hazardous waste tank reassessment has not been conducted for the waste oil tank system. CORRECTIVE ACTION: Obtain a written hazardous waste tank system reassessment for the waste oil tank system in accordance with 22 CCR 15 66265.192 and email a copy to the CUPA.

Violation Description:

Failure of generator to obtain assessment or reassessment every five (5) years or the remaining service life of the tank system, as stated in the engineer's assessment, whichever is less. This assessment applies to onground or aboveground tank systems containing only non-RCRA hazardous wastes generated onsite, or for a small quantity generator onground or aboveground tank systems containing RCRA hazardous wastes generated onsite.

Violations

Violation Date: 03/21/2024 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Stanislaus County Environmental Resources
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Notes:

Returned to compliance on 09/27/2024. 22 CCR 12 66262.34(a)(4); 22 CCR 15 66265.16 OBSERVATION: The owner operator did not have an LQG training plan that included all required elements. LQG training must include all elements identified in 22 CCR 15 66265.16(d) CORRECTIVE ACTION: Locate training documentation or conduct training with applicable personnel and document it. Email a copy of the training documentation to the CUPA.

Violation Description:

Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.

Enforcements

Enf Action Date: 06/17/2016 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 06/17/2016 ***Enf Action Program:*** HW
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Stanislaus County Environmental Resources
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 03/21/2024
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HW
Eval Source: CERS
Eval Notes:

The items above have been inspected. If there were violations, this document constitutes a Summary of Violations/Notice to Comply. If there were Class I violations, this document constitutes a Notice of Violation. To verify compliance, a reinspection may occur at any time after the indicated correction date for each violation. Non-compliance could result in re-inspection fees, permit revocation and/or administrative, civil, or criminal penalties. Any time granted for the correction of the violation(s) does not preclude enforcement action by the Department of Environmental Resources, Hazardous Materials Division or any other agencies. Routine inspection conducted, violations cited, please see report for details and return to compliance deadline. This facility was determined to be an LQG. - MW; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 06/17/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HW
Eval Source: CERS
Eval Notes:

initial inspection. this facility is now a large quantity generator; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/01/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HW
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/01/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 03/21/2024
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP

Eval Source: CERS
Eval Notes:

The items above have been inspected. If there were violations, this document constitutes a Summary of Violations/Notice to Comply. If there were Class I violations, this document constitutes a Notice of Violation. To verify compliance, a reinspection may occur at any time after the indicated correction date for each violation. Non-compliance could result in re-inspection fees, permit revocation and/or administrative, civil, or criminal penalties. Any time granted for the correction of the violation(s) does not preclude enforcement action by the Department of Environmental Resources, Hazardous Materials Division or any other agencies.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 08/26/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HW
Eval Source: CERS
Eval Notes:

undefined; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 06/17/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Stanislaus County Environmental Resources
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

initial inspection. this facility needs to update the chemical inventory and hold a training.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Affiliations

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: P.O Box 436
City: Westley
State: CA
Country:
Zip Code: 95387
Phone:

Affil Type Desc: Property Owner
Entity Name: Kashmier Dhoot
Entity Title:
Address: 4415 Howard Rd
City: Westley
State: CA
Country: United States
Zip Code: 95387
Phone: (209) 894-3040

Affil Type Desc: Document Preparer
Entity Name: harman dhesi
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: Joes tire & lube

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: Harman Dhesi
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (559) 260-1342

Affil Type Desc: Environmental Contact
Entity Name: Harman Dhesi
Entity Title:
Address: P O Box 436
City: westley
State: CA
Country:
Zip Code: 95387
Phone:

Affil Type Desc: Legal Owner
Entity Name: Harman Dhesi
Entity Title:
Address: 49 Melwood st
City: Watsonville
State: CA
Country: United States
Zip Code: 95076
Phone: (559) 260-1342

Affil Type Desc: CUPA District
Entity Name: Stanislaus Cnty Env Res.
Entity Title:
Address: 3800 Cornucopia Way, Suite C
City: Modesto
State: CA
Country:
Zip Code: 95358-9494
Phone: (209) 525-6700

Affil Type Desc: Identification Signer
Entity Name: Harman Dhesi
Entity Title: Ceo
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code: HWG
Program ID: 10657078
Latitude: 37.538570
Longitude: -121.263360
Coord Name:
Ref Point Type Desc: Center of a facility or station.

13	3 of10	WNW	0.19 / 1,019.09	259.44 / 38	Joe's Travel Plaza 4415 Howard Westley CA 95387	CUPA STANISLAUS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CERS ID: 10178561
Facility ID: FA0001260
Facility Status: Active
Mailing Address: Po Box 952
Program Element: 4003 - APSA - ANNUAL COUNTY FEE 50001 - 100000 GAL, 4115 - UST - UST FACILITY ANNUAL FEE, 4201 - BUSINESS PLAN FEE 1-4 CHEMICAL, 4401 - GEN - CESQG, 5015 - CUPA OVERSIGHT STATE SURCHARGE, 9101 - CERS - CA ELECTRONIC REPORTING SYSTEM FEE

MI City State Zip: Westley, CA 95387
Mailing State: CA

13	4 of10	WNW	0.19 / 1,019.09	259.44 / 38	Joes tire & lube 4415 Howard Rd Westley CA 95387	CUPA STANISLAUS

CERS ID: 10657078
Facility ID: FA0002434
Facility Status: Active
Mailing Address: P.O Box 436
Program Element: 4001 - APSA - SURCHARGE FOR 1320 - 9999 GAL, 4201 - BUSINESS PLAN FEE 1-4 CHEMICAL, 4405 - GEN - LGE QUAN MORE THAN 2,220 LBS PER MONTH, 5015 - CUPA OVERSIGHT STATE SURCHARGE, 9101 - CERS - CA ELECTRONIC REPORTING SYSTEM FEE

MI City State Zip: Westley, CA 95387
Mailing State: CA

13	5 of10	WNW	0.19 / 1,019.09	259.44 / 38	JOE'S TRAVEL PLAZA - WESTLEY 4415 HOWARD RD WESTLEY CA 95387	EMISSIONS

2010 Toxic Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2011 Criteria Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:

CERR Code:
TOGT: .44853472987717888053998100104607118891 28
ROGT: .4460992751464834
COT:
NOXT:
SOXT:
PMT:
PM10T:

2011 Toxic Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2012 Criteria Data

Facility ID:	4839	***CERR Code:***	
Facility SIC Code:	5541	***TOGT:***	.4485347298771788805399810010460711889128
CO:	50	***ROGT:***	.4460992751464834
Air Basin:	SJV	***COT:***	
District:	SJU	***NOXT:***	
COID:	STA	***SOXT:***	
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	
CHAPIS:		***PM10T:***	

2012 Toxic Data

Facility ID:	4839	***COID:***	STA
Facility SIC Code:	5541	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2013 Criteria Data

Facility ID:	4839	***CERR Code:***	
Facility SIC Code:	5541	***TOGT:***	.2271791576550939100739897552646556630662
CO:	50	***ROGT:***	.22698
Air Basin:	SJV	***COT:***	.00699
District:	SJU	***NOXT:***	.0013
COID:	STA	***SOXT:***	.0000368
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.000768442622950819672131147540983606557377
CHAPIS:		***PM10T:***	.00075

2013 Toxic Data

Facility ID:	4839	***COID:***	STA
Facility SIC Code:	5541	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2014 Criteria Data

Facility ID:	4839	***CERR Code:***	
Facility SIC Code:	5541	***TOGT:***	.1589148103965310665907797381900967558338
CO:	50	***ROGT:***	.15871581800735005
Air Basin:	SJV	***COT:***	.00699120575577021
District:	SJU	***NOXT:***	.00129665804743767
COID:	STA	***SOXT:***	.0000367502013444901

DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.0007672869133167581967213114754098360655574
CHAPIS:		**PM10T:**	.000748872027397156

2014 Toxic Data

Facility ID:	4839	**COID:**	STA
Facility SIC Code:	5541	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2015 Criteria Data

Facility ID:	4839	**CERR Code:**	
Facility SIC Code:	5541	**TOGT:**	.6976101675634604439385315879339783722254
CO:	50	**ROGT:**	.697495237
Air Basin:	SJV	**COT:**	.00404
District:	SJU	**NOXT:**	.000749
COID:	STA	**SOXT:**	.0000212
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.0004426229508196721311475409836065573737049
CHAPIS:		**PM10T:**	.000432

2015 Toxic Data

Facility ID:	4839	**COID:**	STA
Facility SIC Code:	5541	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Criteria Data

Facility ID:	4839	**CERR CODE:**	
Facility SIC Code:	5541	**TOGT:**	.6976101675634604439385315879339783722254
CO:	50	**ROGT:**	.697495237
Air Basin:	SJV	**COT:**	.00404
District:	SJU	**NOXT:**	.000749
COID:	STA	**SOXT:**	.0000212
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.0004426229508196721311475409836065573737049
CHAPIS:		**PM10T:**	.000432

2016 Toxic Data

Facility ID:	4839	**TS:**	
Facility SIC Code:	5541	**HRA:**	
CERR CODE:		**CH Index:**	

COID:	STA	**AH Index:**	
CO:	50	**Air Basin:**	SJV
DISN:	SAN JOAQUIN VALLEY APCD	**District:**	SJU
CHAPIS:			

2017 Criteria Data

Facility ID:	4839	**CERR Code:**	
Facility SIC Code:	5541	**TOGT:**	.6976101675634604439385315879339783722254
CO:	50	**ROGT:**	.697495237
Air Basin:	SJV	**COT:**	.00404
District:	SJU	**NOXT:**	.000749
COID:	STA	**SOXT:**	.0000212
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.0004426229508196721311475409836065573770 49
CHAPIS:		**PM10T:**	.000432

2017 Toxic Data

Facility ID:	4839	**COID:**	STA
Facility SIC Code:	5541	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2018 Criteria Data

Facility ID:	4839	**CERR Code:**	
Facility SIC Code:	5541	**TOGT:**	.6976101675634604439385315879339783722254
CO:	50	**ROGT:**	.697495237
Air Basin:	SJV	**COT:**	.00404
District:	SJU	**NOXT:**	.000749
COID:	STA	**SOXT:**	.0000212
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.0004346076458752515090543259557344064 38632
CHAPIS:		**PM10T:**	.000432

2018 Toxic Data

Facility ID:	4839	**COID:**	STA
Facility SIC Code:	5541	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2019 Criteria Data

CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	

Facility ID:	4839	**ROGT:**	1.027273178
District:	SJU	**COT:**	.00745
Facility SIC Code:	5541	**NOXT:**	.001383
CO ID:	STA	**SOXT:**	.0000392
DISN:	SAN JOAQUIN VALLEY APCD		
PM10T:	.000798		
TOGT:	1.027484921312464428002276607854297097 32		
PMT:	.000802816901408450704225352112676056338028		

2019 Toxic Data

CO:	50	**DISN:**	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	**CHAPIS:**	
Faccility ID:	4839	**CERR Code:**	
District:	SJU	**TS:**	
Facility SIC Code:	5541	**Health Risk Asmt:**	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2020 Criteria Data

CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
Facility ID:	4839	**ROGT:**	1.027273178
District:	SJU	**COT:**	.00745
Facility SIC Code:	5541	**NOXT:**	.001383
CO ID:	STA	**SOXT:**	.0000392
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	1.027484921312464428002276607854297097 32		
PMT:	.000802816901408450704225352112676056338028		
PM10T:	.000798		

2020 Toxic Data

CO:	50	**DISN:**	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	**CHAPIS:**	
Facility ID:	4839	**CHERR Code:**	
District:	SJU	**TS:**	
Facility SIC Code:	5541	**Health Risk Asmt:**	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Toxic Data

Co:	50	**DISN:**	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	**CHAPIS:**	
Facility ID:	4839	**Cerr Code:**	
District:	SJU	**TS:**	
Facility SIC Code:	5541	**Health Risk Asmt:**	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Criteria Data

Co:	50	**CHAPIS:**	
Air Basin:	SJV	**Cerr Code:**	
Facility ID:	4839	**ROGT:**	1.187619358
District:	SJU	**COT:**	.00745
Facility SIC Code:	5541	**NOXT:**	.001383
CO ID:	STA	**SOXT:**	.0000392

DISN: SAN JOAQUIN VALLEY APCD
TOGT: 1.041184921312464428002276607854297097 32
PMT: .000802816901408450704225352112676056338028
PM10T: .000798

2023 Pollutant Data

Facility ID: 4839
Facility SIC Code: 5541
CERR Code:
CHAPIS:
ROGT: .865681795347850084
COT: .00683190196298063
DISN: SAN JOAQUIN VALLEY APCD
TOGT: .865874615465067719752103707073004321 1281
PMT: .000736225348123362173038229376257545271629
PM10T: .000731807996034622
Source: 2023 Pollutant Data
CO: 50
CO ID: STA
Air Basin: SJV
District: SJU
NOXT: .001267111993134022
SOXT: .0000359127998054028

2022 Criteria Data

Facility ID: 4839
Facility SIC Code: 5541
Cerr Code:
CHAPIS:
ROGT: 1.34188226
COT: .000303
DISN: SAN JOAQUIN VALLEY APCD
TOGT: 1.341890862504268639726807057484348321 01
PMT: .000032595573440643863179074446680080482897 38
PM10T: .0000324
Source: 2022 Criteria Data
District: SJU
Air Basin: SJV
Co: 50
CO ID: STA
NOXT: .0000561
SOXT: .00000159

2022 Toxic Data

Facility ID: 4839
Facility SIC Code: 5541
CHERR Code:
CHAPIS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
DISN: SAN JOAQUIN VALLEY APCD
Source: 2022 Toxic Data
CO: 50
Air Basin: SJV
District: SJU
COID: STA
TS: 7.07

2024 Toxic Data

Facility ID: 4839
Facility SIC Cd: 5541
CERR Code:
CHAPIS:
Source: 2024 Toxic Data
TS: 7.07
Co: 50
COID: STA
Air Basin: SJV
District: SJU
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
DISN: SAN JOAQUIN VALLEY APCD

2024 Criteria Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility ID:	4839	**CO:**	50
Facility SIC Code:	5541	**CO ID:**	STA
CERR Code:		**Air Basin:**	SJV
CHAPIS:		**District:**	SJU
ROGT:	.844912594328284876	**NOXT:**	.0004607679975032811
COT:	.002484327986538411	**SOXT:**	.00001305919992923737
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.84498271073454583445531043893563793495 57		
PMT:	.00026771830840849557344064386317907444668		
PM10T:	.0002661119985580446		
Source:	2024 Criteria Data		

13	6 of10	WNW	0.19 / 1,019.09	259.44 / 38	JOE'S TRAVEL PLAZA - WESTLEY 4415 HOWARD ROAD WESTLEY CA 95387	EMISSIONS

2005 Criteria Data

Facility ID:	4839	**CERR Code:**	
Facility SIC Code:	5541	**TOGT:**	.6230957808704783272473326641099274085 58
CO:	50	**ROGT:**	.6198
Air Basin:	SJV	**COT:**	
District:	SJU	**NOXT:**	
COID:	STA	**SOXT:**	
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	
CHAPIS:		**PM10T:**	

2005 Toxic Data

Facility ID:	4839	**COID:**	STA
Facility SIC Code:	5541	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2006 Criteria Data

Facility ID:	4839	**CERR Code:**	
Facility SIC Code:	5541	**TOGT:**	1.2461915617409566544946653282198548171 712
CO:	50	**ROGT:**	1.2396
Air Basin:	SJV	**COT:**	
District:	SJU	**NOXT:**	
COID:	STA	**SOXT:**	
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	
CHAPIS:		**PM10T:**	

2006 Toxic Data

Facility ID:	4839	**COID:**	STA
Facility SIC Code:	5541	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			

Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2007 Criteria Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .5685749000443114736131910560003087603092
ROGT: .5655675
COT:
NOXT:
SOXT:
PMT:
PM10T:

2007 Toxic Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2008 Criteria Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .93471237830860977885406961015734032122
ROGT: .9296370752563474
COT:
NOXT:
SOXT:
PMT:
PM10T:

2008 Toxic Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2009 Criteria Data

Facility ID: 4839
Facility SIC Code: 5541
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CERR Code:
TOGT: .9103674258180108194151492323289035210205
ROGT: .9054243110351563
COT:
NOXT:
SOXT:
PMT:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CHAPIS: ***PM10T:***

2009 Toxic Data

Facility ID:	4839	***COID:***	STA
Facility SIC Code:	5541	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

13	***7 of10***	***WNW***	***0.19 / 1,019.09***	***259.44 / 38***	***DHESI TRUCK SERVICES INC DBA JOES TIRE & LUBE 4415 HOWARD RD WESTLEY CA***	***RCRA NON GEN***

Handler ID:	CAL000414065
Generator Status:	N
Recycler Activity?:	NO
Recycler Activity Note:	This facility has not been identified as a Recycler Facility from both the RCRA Handler and Biennial Report Modules.
Public Notes:	

Contact DTSC for information.

Violation/Evaluation Summary

Note:	NO RECORDS: As of Aug 2026, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer:	No	***Used Oil Transpor:***	No
Mixed Waste Gen:	No	***Used Oil Trans Fac:***	No
Transporter:	No	***Used Oil Processor:***	No
Transfer Facility:	No	***Used Oil Refiner:***	No
Recycler:	No	***Used Oil Burner:***	No
Onsite Burner Exem:	No	***Commercial TSD:***	No
Furnace Exemption:	No	***Recycl Nonstorage:***	No
Underground Injec:	No		
Used Oil Market Burner:	No		
Used Oil Spec Marketer:	No		

Additional Handler Summary Details

Source Type:	I	***NAIC 1:***	811111
Seq No:	1	***NAIC 2:***	
Non Notifier:		***NAIC 3:***	
Receive Date:	20160204	***NAIC 4:***	
Active Site:	H----	***State:***	CA
Land Type:		***Location Latitude:***	37.537972
In Handler Univ:	Yes	***Location Longitude:***	-121.264081
In A Universe:	Yes	***Loc GIS Primary:***	No
Gen Status:	N	***Loc GIS Origin:***	AG
Report Cycle:		***State District Owner:***	
Accessibility:		***State District:***	
Region:	09		
Fed Waste Gen Owner:	HQ		
State Waste Generator Owner:	CA		
State Waste Generator:	2		

Short Term Generator:	No
Uni Waste:	Yes
Universal Waste Dest Facility:	Yes
Federal Universal Waste:	No
As Federally Regulated Tsdf:	------
As Converter Tsdf:	------
As State Regulated Tsdf:	------
As State Regulated Handler:	---
Federal Indicator:	---
Hsm:	N
Subpart K:	----
GPRA Permit:	N
GPRA Renewal:	N
Permit Renewal Wrkld:	------
Permwrk ID:	------
Perm Prog:	------
Pcwrkld:	------
Closwrkld:	------
GPRA Ca:	No
Cawrkld:	No
Subjca Tsd Discretion:	No
NCAPS:	No
EC Indicator:	N
Ca725 Indicator:	N
Ca750 Indicator:	N
Operating Tsdf:	------
Full Enforcement:	------
Snc:	No
Unaddressed Snc:	No
Addressed Snc:	No
Snc With Comp Sched:	No
Fa Required:	-----
Hhandler Last Change:	20180906
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Slab Importer:	No
Slab Exporter:	No
Manifest Broker:	No
Subpart P:	N
Contact Language:	EN
Handler Name:	DHESI TRUCK SERVICES INC DBA JOES TIRE & LUBE
Location Street No:	
Location Street1:	4415 HOWARD RD
Location Street2:	
Location City:	WESTLEY
Location State:	CA
Location Zip:	95387
Location County Code:	CA099
Location County Name:	STANISLAUS
Location Country:	US
Contact Name:	HARMAN DHESI/OWNER
Contact Street No:	
Contact Street1:	4415 HOWARD RD
Contact Street2:	
Contact City:	WESTLEY
Contact State:	CA
Contact Zip:	95387
Contact Country:	
Contact Phone & Ext:	209-895-7005
Contact Fax:	209-895-7005
Contact Email Address:	JOESTIREANDLUBE@GMAIL.COM
Contact Title:	
Owner Name:	DHESI TRUCK SERVICES INC
Owner Type:	O
Owner Seq:	1
Operator Name:	HARMAN DHESI/OWNER
Operator Type:	O
Operator Seq:	2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Hazardous Waste Handler Details

Seq No:	1
Receive Date:	20160204
Handler Name:	DHESI TRUCK SERVICES INC DBA JOES TIRE & LUBE
Fed Waste Generator:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer
TSD Activity:	N

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street1:***	4415 HOWARD RD
Name:	HARMAN DHESI/OWNER	***Street2:***	
Dt Became Current:		***City:***	WESTLEY
Dt Ended Current:		***State:***	CA
Phone:	209-895-7005	***Country:***	
Source Type:	Implementer	***Zip:***	95387
Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street1:***	PO BOX 436
Name:	DHESI TRUCK SERVICES INC	***Street2:***	
Dt Became Current:		***City:***	WESTLEY
Dt Ended Current:		***State:***	CA
Phone:	209-895-7005	***Country:***	
Source Type:	Implementer	***Zip:***	95387

13	*8 of10*	***WNW***	***0.19 / 1,019.09***	***259.44 / 38***	***KGS DHOOT & ASSOC INC DBA JOES TRAVEL PLAZA II 4415 HOWARD RD WESTLEY CA***	***RCRA NON GEN***

Handler ID:	CAL000274952
Generator Status:	N
Recycler Activity?:	NO
Recycler Activity Note:	This facility has not been identified as a Recycler Facility from both the RCRA Handler and Biennial Report Modules.
Public Notes:	

Contact DTSC for information.

Violation/Evaluation Summary

Note:	NO RECORDS: As of Aug 2026, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer:	No	***Used Oil Transpor:***	No
Mixed Waste Gen:	No	***Used Oil Trans Fac:***	No
Transporter:	No	***Used Oil Processor:***	No
Transfer Facility:	No	***Used Oil Refiner:***	No
Recycler:	No	***Used Oil Burner:***	No
Onsite Burner Exem:	No	***Commercial TSD:***	No
Furnace Exemption:	No	***Recycl Nonstorage:***	No
Underground Injec:	No		
Used Oil Market Burner:	No		
Used Oil Spec Marketer:	No		

Additional Handler Summary Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Source Type:	I	**NAIC 1:**	457120
Seq No:	2	**NAIC 2:**	
Non Notifier:		**NAIC 3:**	
Receive Date:	20260401	**NAIC 4:**	
Active Site:	H---S	**State:**	CA
Land Type:	O	**Location Latitude:**	37.537972
In Handler Univ:	Yes	**Location Longitude:**	-121.264081
In A Universe:	Yes	**Loc GIS Primary:**	No
Gen Status:	N	**Loc GIS Origin:**	AG
Report Cycle:		**State District Owner:**	
Accessibility:		**State District:**	
Region:	09		

Fed Waste Gen Owner:	HQ
State Waste Generator Owner:	CA
State Waste Generator:	2
Short Term Generator:	No
Uni Waste:	Yes
Universal Waste Dest Facility:	Yes
Federal Universal Waste:	No
As Federally Regulated Tsdf:	------
As Converter Tsdf:	------
As State Regulated Tsdf:	------
As State Regulated Handler:	Y--
Federal Indicator:	---
Hsm:	N
Subpart K:	----
GPRA Permit:	N
GPRA Renewal:	N
Permit Renewal WrkId:	------
Permwrk ID:	------
Perm Prog:	------
PcwrkId:	------
ClosWrkId:	------
GPRA Ca:	No
CawrkId:	No
Subjca Tsd Discretion:	No
NCAPS:	No
EC Indicator:	N
Ca725 Indicator:	N
Ca750 Indicator:	N
Operating Tsdf:	------
Full Enforcement:	------
Snc:	No
Unaddressed Snc:	No
Addressed Snc:	No
Snc With Comp Sched:	No
Fa Required:	-----
Hhandler Last Change:	20260605
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Slab Importer:	No
Slab Exporter:	No
Manifest Broker:	No
Subpart P:	N
Contact Language:	EN
Handler Name:	KGS DHOOT & ASSOC INC DBA JOES TRAVEL PLAZA II
Location Street No:	
Location Street1:	4415 HOWARD RD
Location Street2:	
Location City:	WESTLEY
Location State:	CA
Location Zip:	95387
Location County Code:	CA099
Location County Name:	STANISLAUS
Location Country:	US
Contact Name:	MARIA LAINEZ
Contact Street No:	
Contact Street1:	PO BOX 952
Contact Street2:	

Contact City:	WESTLEY
Contact State:	CA
Contact Zip:	95387
Contact Country:	US
Contact Phone & Ext:	209-894-3040
Contact Fax:	
Contact Email Address:	JOESTRAVELPLAZA@GMAIL.COM
Contact Title:	
Owner Name:	KGS DHOOT ASSOCIATE INC
Owner Type:	O
Owner Seq:	1
Operator Name:	KGS DHOOT ASSOCIATE INC
Operator Type:	O
Operator Seq:	2

Hazardous Waste Handler Details

Seq No:	1
Receive Date:	20030924
Handler Name:	KGS DHOOT & ASSOC. INC.
Fed Waste Generator:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer
TSD Activity:	N

Hazardous Waste Handler Details

Seq No:	2
Receive Date:	20260401
Handler Name:	KGS DHOOT & ASSOC INC DBA JOES TRAVEL PLAZA II
Fed Waste Generator:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer
TSD Activity:	N

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street1:***	PO BOX 952
Name:	KASHMIR S. DHOOT / OWNER	***Street2:***	
Dt Became Current:		***City:***	WESTLEY
Dt Ended Current:		***State:***	CA
Phone:	209-894-3040	***Country:***	
Source Type:	Implementer	***Zip:***	95387

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street1:***	4415 HOWARD RD
Name:	KGS DHOOT ASSOCIATE INC	***Street2:***	
Dt Became Current:		***City:***	WESTLEY
Dt Ended Current:		***State:***	CA
Phone:	209-894-3040	***Country:***	US
Source Type:	Implementer	***Zip:***	95387-0000

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street1:***	4415 HOWARD RD
Name:	KGS DHOOT ASSOCIATE INC	***Street2:***	
Dt Became Current:		***City:***	WESTLEY
Dt Ended Current:		***State:***	CA
Phone:	209-894-3040	***Country:***	US
Source Type:	Implementer	***Zip:***	95387-0000

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street1:***	4415 HOWARD RD
Name:	KGS DHOOT ASSOCIATE INC	***Street2:***	
Dt Became Current:		***City:***	WESTLEY

Dt Ended Current:		**State:**	CA
Phone:	209-894-3040	**Country:**	
Source Type:	Implementer	**Zip:**	95387-0000

Historical Handler Details

Receive Dt:	20030924
Generator Code Description:	Not a Generator, Verified
Handler Name:	KGS DHOOT & ASSOC. INC.

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13 | ***9 of10*** | ***WNW*** | ***0.19 / 1,019.09*** | ***259.44 / 38*** | ***GATE LINK CORPORATION***
4415 HOWARD ROAD
WESTLEY CA | ***RCRA NON GEN***

Handler ID:	CAC003210691
Generator Status:	N
Recycler Activity?:	NO
Recycler Activity Note:	This facility has not been identified as a Recycler Facility from both the RCRA Handler and Biennial Report Modules.
Public Notes:	

Contact DTSC for information.

Violation/Evaluation Summary

Note:	NO RECORDS: As of Aug 2026, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer:	No	**Used Oil Transpor:**	No
Mixed Waste Gen:	No	**Used Oil Trans Fac:**	No
Transporter:	No	**Used Oil Processor:**	No
Transfer Facility:	No	**Used Oil Refiner:**	No
Recycler:	No	**Used Oil Burner:**	No
Onsite Burner Exem:	No	**Commercial TSD:**	No
Furnace Exemption:	No	**Recycl Nonstorage:**	No
Underground Injec:	No		
Used Oil Market Burner:	No		
Used Oil Spec Marketer:	No		

Additional Handler Summary Details

Source Type:	I	**NAIC 1:**	484210
Seq No:	1	**NAIC 2:**	
Non Notifier:		**NAIC 3:**	
Receive Date:	20230103	**NAIC 4:**	
Active Site:	----S	**State:**	CA
Land Type:		**Location Latitude:**	37.537856
In Handler Univ:	No	**Location Longitude:**	-121.263927
In A Universe:	Yes	**Loc GIS Primary:**	No
Gen Status:	N	**Loc GIS Origin:**	AG
Report Cycle:		**State District Owner:**	
Accessibility:		**State District:**	
Region:	09		
Fed Waste Gen Owner:	HQ		
State Waste Generator Owner:	CA		
State Waste Generator:	2		
Short Term Generator:	No		
Uni Waste:	No		
Universal Waste Dest Facility:	No		
Federal Universal Waste:	No		
As Federally Regulated Tsdf:	------		

As Converter Tsdf:	------
As State Regulated Tsdf:	------
As State Regulated Handler:	Y--
Federal Indicator:	---
Hsm:	N
Subpart K:	----
GPRA Permit:	N
GPRA Renewal:	N
Permit Renewal Wrkld:	------
Permwrk ID:	------
Perm Prog:	------
Pcwrkld:	------
Closwrkld:	------
GPRA Ca:	No
Cawrkld:	No
Subjca Tsd Discretion:	No
NCAPS:	No
EC Indicator:	N
Ca725 Indicator:	N
Ca750 Indicator:	N
Operating Tsdf:	------
Full Enforcement:	------
Snc:	No
Unaddressed Snc:	No
Addressed Snc:	No
Snc With Comp Sched:	No
Fa Required:	-----
Hhandler Last Change:	20230104
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Slab Importer:	No
Slab Exporter:	No
Manifest Broker:	No
Subpart P:	N
Contact Language:	EN
Handler Name:	GATE LINK CORPORATION
Location Street No:	
Location Street1:	4415 HOWARD ROAD
Location Street2:	
Location City:	WESTLEY
Location State:	CA
Location Zip:	95387
Location County Code:	CA099
Location County Name:	STANISLAUS
Location Country:	US
Contact Name:	JANG LEE
Contact Street No:	
Contact Street1:	5300 BEACH BLVD.
Contact Street2:	#110-535
Contact City:	BUENA PARK
Contact State:	CA
Contact Zip:	90621
Contact Country:	
Contact Phone & Ext:	213-923-2866
Contact Fax:	
Contact Email Address:	GATELINK11@YAHOO.COM
Contact Title:	
Owner Name:	JANG LEE
Owner Type:	O
Owner Seq:	1
Operator Name:	JANG LEE
Operator Type:	O
Operator Seq:	2

Hazardous Waste Handler Details

Seq No:	1
Receive Date:	20230103

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Handler Name: GATE LINK CORPORATION
Fed Waste Generator: N
Generator Code Description: Not a Generator, Verified
Source Type: Implementer
TSD Activity: N

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: JANG LEE
Dt Became Current:
Dt Ended Current:
Phone: 213-923-2866
Source Type: Implementer
Street No:
Street1: 5300 BEACH BLVD.
Street2: #110-535
City: BUENA PARK
State: CA
Country:
Zip: 90621

Owner/Operator Ind: Current Operator
Type: Other
Name: JANG LEE
Dt Became Current:
Dt Ended Current:
Phone: 213-923-2866
Source Type: Implementer
Street No:
Street1: 5300 BEACH BLVD.
Street2: #110-535
City: BUENA PARK
State: CA
Country:
Zip: 90621

13	10 of10	WNW	0.19 / 1,019.09	259.44 / 38	Joe's Travel Plaza 4415 Howard Westley CA 95387	UST

Facility ID: District 5
CERS ID: 10178561
Site Facility Type: PERMITTED UNDERGROUND STORAGE TANK (UST)
Note: Information related to facilities can be searched on Geo Tracker Website: https://geotracker.waterboards.ca.gov/search

Permitted UST Tank Details

EPA Region: 9
No. of Closed UST: 0
No. of Inuse UST: 3
No. of Oos UST: 0
Owner Type: Non-Government
Tank ID No.: 003
Tank Status: Confirmed/Updated Information
Tank Type: Double Wall
Tank Alarms: No
Tank Ball Float: No
Tank Capacity Gallons: 10000
Tank Piping Construction: Double Walled
Tank Piping Type: Pressure
Tank Pw Piping Construction: Fiberglass
Tank Sacrificial Anode: No
Tank Operator Name: Joes Travel Plaza
Tank Operator Mail Address: PO Box 952
Tank Operator Mail City: Westley
Tank Operator Mail State: CA
Tank Operator Mail Zip: 95387
Tank Owner Name: KGS Dhoot Associates Inc.
Tank Owner Mailing Address: PO Box 952
Tank Owner Mailing City: Westley
Tank Owner Mailing State: CA
Tank Owner Mailing Zip: 95387
Tank Closure Date:
Tank Configuration: One in a Compartmented Unit
Tank Contents: Premium Unleaded
Tank Cp Impr Curr: No
Tank Cp Shutoff: Yes
Tank Installatn Dt: 11/1/2002 12:00:00 AM
Tank No of Compart: 2
Tank Pc Constructn: Steel
Tank Spill Bucket: Yes
Tribal Lands: No

Permitted UST Tank Details

EPA Region: 9
No. of Closed UST: 0
Tank Closure Date:
Tank Configuration: Stand Alone Tank

No. of Inuse UST:	3	***Tank Contents:***	Regular Unleaded
No. of Oos UST:	0	***Tank Cp Impr Curr:***	No
Owner Type:	Non-Government	***Tank Cp Shutoff:***	Yes
Tank ID No.:	001	***Tank Installatn Dt:***	11/1/2002 12:00:00 AM
Tank Status:	Confirmed/Updated Information	***Tank No of Compart:***	1
Tank Type:	Double Wall	***Tank Pc Constructn:***	Steel
Tank Alarms:	No	***Tank Spill Bucket:***	Yes
Tank Ball Float:	No	***Tribal Lands:***	No

Tank Capacity Gallons:	20000
Tank Piping Construction:	Double Walled
Tank Piping Type:	Pressure
Tank Pw Piping Construction:	Fiberglass
Tank Sacrificial Anode:	No
Tank Operator Name:	Joes Travel Plaza
Tank Operator Mail Address:	PO Box 952
Tank Operator Mail City:	Westley
Tank Operator Mail State:	CA
Tank Operator Mail Zip:	95387
Tank Owner Name:	KGS Dhoot Associates Inc.
Tank Owner Mailing Address:	PO Box 952
Tank Owner Mailing City:	Westley
Tank Owner Mailing State:	CA
Tank Owner Mailing Zip:	95387

Permitted UST Tank Details

EPA Region:	9	***Tank Closure Date:***	
No. of Closed UST:	0	***Tank Configuration:***	One in a Compartmented Unit
No. of Inuse UST:	3	***Tank Contents:***	Diesel
No. of Oos UST:	0	***Tank Cp Impr Curr:***	No
Owner Type:	Non-Government	***Tank Cp Shutoff:***	Yes
Tank ID No.:	002	***Tank Installatn Dt:***	11/1/2002 12:00:00 AM
Tank Status:	Confirmed/Updated Information	***Tank No of Compart:***	2
Tank Type:	Double Wall	***Tank Pc Constructn:***	Steel
Tank Alarms:	No	***Tank Spill Bucket:***	Yes
Tank Ball Float:	No	***Tribal Lands:***	No

Tank Capacity Gallons:	10000
Tank Piping Construction:	Double Walled
Tank Piping Type:	Pressure
Tank Pw Piping Construction:	Fiberglass
Tank Sacrificial Anode:	No
Tank Operator Name:	Joes Travel Plaza
Tank Operator Mail Address:	PO Box 952
Tank Operator Mail City:	Westley
Tank Operator Mail State:	CA
Tank Operator Mail Zip:	95387
Tank Owner Name:	KGS Dhoot Associates Inc.
Tank Owner Mailing Address:	PO Box 952
Tank Owner Mailing City:	Westley
Tank Owner Mailing State:	CA
Tank Owner Mailing Zip:	95387

Permitted UST Site Details

CERS ID:	10178561	***CalEnviroScrn 4 Pct:***	
Facility ID:	District 5	***Latitude:***	
Senate District:		***Longitude:***	
Congress District:		***County:***	Stanislaus
Permitting Agency:	Stanislaus County Environmental Resources		

14	***1 of1***	***WNW***	***0.20 / 1,066.15***	***269.57 / 48***	***WALTER TRANSPORTATION,LLC*** ***SB HOWARD RD OFF RAMP @ I-5*** ***WESTLEY CA***	***RCRA NON GEN***

Handler ID:	CAC003091510
Generator Status:	N

Recycler Activity?: NO
Recycler Activity Note: This facility has not been identified as a Recycler Facility from both the RCRA Handler and Biennial Report Modules.
Public Notes:

Contact DTSC for information.

Violation/Evaluation Summary

Note: NO RECORDS: As of Aug 2026, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer:	No	**Used Oil Transpor:**	No
Mixed Waste Gen:	No	**Used Oil Trans Fac:**	No
Transporter:	No	**Used Oil Processor:**	No
Transfer Facility:	No	**Used Oil Refiner:**	No
Recycler:	No	**Used Oil Burner:**	No
Onsite Burner Exem:	No	**Commercial TSD:**	No
Furnace Exemption:	No	**Recycl Nonstorage:**	No
Underground Injec:	No		

Used Oil Market Burner: No
Used Oil Spec Marketer: No

Additional Handler Summary Details

Source Type:	I	**NAIC 1:**	484121
Seq No:	1	**NAIC 2:**	
Non Notifier:		**NAIC 3:**	
Receive Date:	20201105	**NAIC 4:**	
Active Site:	----S	**State:**	CA
Land Type:		**Location Latitude:**	
In Handler Univ:	No	**Location Longitude:**	
In A Universe:	Yes	**Loc GIS Primary:**	No
Gen Status:	N	**Loc GIS Origin:**	
Report Cycle:		**State District Owner:**	
Accessibility:		**State District:**	
Region:	09		

Fed Waste Gen Owner: HQ
State Waste Generator Owner: CA
State Waste Generator: 2
Short Term Generator: No
Uni Waste: No
Universal Waste Dest Facility: No
Federal Universal Waste: No
As Federally Regulated Tsdf: ------
As Converter Tsdf: ------
As State Regulated Tsdf: ------
As State Regulated Handler: Y--
Federal Indicator: ---
Hsm: N
Subpart K: ----
GPRA Permit: N
GPRA Renewal: N
Permit Renewal WrkId: ------
Permwrk ID: ------
Perm Prog: ------
Pcwrkld: ------
Closwrkld: ------
GPRA Ca: No
Cawrkld: No
Subjca Tsd Discretion: No
NCAPS: No
EC Indicator: N

Ca725 Indicator:	N
Ca750 Indicator:	N
Operating Tsdf:	------
Full Enforcement:	------
Snc:	No
Unaddressed Snc:	No
Addressed Snc:	No
Snc With Comp Sched:	No
Fa Required:	-----
Hhandler Last Change:	20201106
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Slab Importer:	No
Slab Exporter:	No
Manifest Broker:	No
Subpart P:	N
Contact Language:	EN
Handler Name:	WALTER TRANSPORTATION,LLC
Location Street No:	
Location Street1:	SB HOWARD RD OFF RAMP @ I-5
Location Street2:	
Location City:	WESTLEY
Location State:	CA
Location Zip:	95387
Location County Code:	CA099
Location County Name:	STANISLAUS
Location Country:	US
Contact Name:	WALTER SANDOVAL
Contact Street No:	
Contact Street1:	287 WARNER ST
Contact Street2:	
Contact City:	VENTURA
Contact State:	CA
Contact Zip:	93001
Contact Country:	
Contact Phone & Ext:	805-455-2797
Contact Fax:	
Contact Email Address:	DEWAYNE.LILES@USECOLOGY.COM
Contact Title:	
Owner Name:	WALTER TRANSPORTATION, LLC
Owner Type:	O
Owner Seq:	1
Operator Name:	WALTER SANDOVAL
Operator Type:	O
Operator Seq:	2

Hazardous Waste Handler Details

Seq No:	1
Receive Date:	20201105
Handler Name:	WALTER TRANSPORTATION,LLC
Fed Waste Generator:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer
TSD Activity:	N

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street1:***	287 WARNER ST
Name:	WALTER TRANSPORTATION, LLC	***Street2:***	
Dt Became Current:		***City:***	VENTURA
Dt Ended Current:		***State:***	CA
Phone:	805-455-2797	***Country:***	
Source Type:	Implementer	***Zip:***	93001
Owner/Operator Ind:	Current Operator	***Street No:***	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Type:	Other	**Street1:**	287 WARNER ST
Name:	WALTER SANDOVAL	**Street2:**	
Dt Became Current:		**City:**	VENTURA
Dt Ended Current:		**State:**	CA
Phone:	805-455-2797	**Country:**	
Source Type:	Implementer	**Zip:**	93001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
15	1 of1	NW	0.23 / 1,230.07	242.53 / 21	HAMILTON ESTATE STANISLAUS COUNTY PATTERSON CA 95363	MRDS

Dep ID:	10263131	**I1:**	51
Dev Status:	OCCURRENCE	**Latitude:**	37.543884
Code List:	STN_D	**Longitude:**	-121.264282
Url:	http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10263131		

Commodity

I1:	35	**Line:**	1
Code:	STN_D	**Inserted By:**	MAS migration
Commodity:	Stone, Dimension	**Insert Date:**	29-OCT-2002 09:00:24
Commodity Type:	Non-metallic	**Updated By:**	USGS
Commodity Group:	Stone, Dimension	**Update Date:**	29-OCT-2002 09:02:20
Importance:	Primary		

Names

I1:	36	**Inserted By:**	MAS migration
Status:	Current	**Insert Date:**	29-OCT-02
Site Name:	Hamilton Estate	**Updated By:**	USGS
Line:	2	**Update Date:**	29-OCT-02

Names

I1:	36	**Inserted By:**	MAS migration
Status:	Previous	**Insert Date:**	29-OCT-02
Site Name:	Everist	**Updated By:**	USGS
Line:	3	**Update Date:**	29-OCT-02

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
16	1 of4	WNW	0.24 / 1,277.45	266.57 / 45	NICK J TRANI ENTERPRISES DBA CARL'S JR 4437 HOWARD ROAD WESTLEY CA	EMISSIONS

2005 Criteria Data

Facility ID:	4796	**CERR Code:**	
Facility SIC Code:	5812	**TOGT:**	.0458517027078710277698253650157457772688
CO:	50	**ROGT:**	.0320319995117187
Air Basin:	SJV	**COT:**	.0112770000100136
District:	SJU	**NOXT:**	.0504780000448227
COID:	STA	**SOXT:**	.00155730000138283
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.4349172347496310344827586206896551724138
CHAPIS:		**PM10T:**	.126125998077393

2005 Toxic Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2006 Criteria Data

Facility ID:	4796	**CERR Code:**	
Facility SIC Code:	5812	**TOGT:**	.04597766962496421414257085599770970512 45
CO:	50	**ROGT:**	.03212
Air Basin:	SJV	**COT:**	.0112770000100136
District:	SJU	**NOXT:**	.0504780000448227
COID:	STA	**SOXT:**	.00155730000138283
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.43611206896551724137931034482758620689 66
CHAPIS:		**PM10T:**	.1264725

2006 Toxic Data

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
16	2 of4	WNW	0.24 / 1,277.45	266.57 / 45	MODESTO RESTAURANT GROUP 4437 HOWARD ROAD WESTLEY CA	EMISSIONS

2007 Criteria Data

Facility ID:	4796	**CERR Code:**	
Facility SIC Code:	5812	**TOGT:**	.04597766962496421414257085599770970512 45
CO:	50	**ROGT:**	.03212
Air Basin:	SJV	**COT:**	.0112770000100136
District:	SJU	**NOXT:**	.0504780000448227
COID:	STA	**SOXT:**	.00155730000138283
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.43611206896551724137931034482758620689 66
CHAPIS:		**PM10T:**	.1264725

2007 Toxic Data

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		

TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2008 Criteria Data

Facility ID:	4796	**CERR Code:**	
Facility SIC Code:	5812	**TOGT:**	.01559690775244689378757515030060120240 48
CO:	50	**ROGT:**	.0108959997558594
Air Basin:	SJV	**COT:**	.00000161215953994542
District:	SJU	**NOXT:**	.00000721633317880332
COID:	STA	**SOXT:**	.000000222631555516273
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.14794137599550448275862068965517241379 31
CHAPIS:		**PM10T:**	.0429029990386963

2008 Toxic Data

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		

TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2009 Criteria Data

Facility ID:	4796	**CERR Code:**	
Facility SIC Code:	5812	**TOGT:**	.09202175626364342971657600916117950186 08
CO:	50	**ROGT:**	.0642863989257813
Air Basin:	SJV	**COT:**	.0833279986381531
District:	SJU	**NOXT:**	.372991993904114
COID:	STA	**SOXT:**	.0115071998119354
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.87285412334573655172413793103448275862 07
CHAPIS:		**PM10T:**	.2531276957702636

2009 Toxic Data

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		

TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

2010 Toxic Data

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD

CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
CHAPIS:
CERR Code:

2011 Criteria Data

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .092113371902845834526195247638133409676 5
ROGT: .0643504016113281
COT: .0834119975566864
NOXT: .373367989063263
SOXT: .01151879966259
PMT: .873723125326223448275862068965517241379 3
PM10T: .2533797063446048

2011 Toxic Data

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2012 Criteria Data

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .092113371902845834526195247638133409676 5
ROGT: .0643504016113281
COT: .0834119975566864
NOXT: .373367989063263
SOXT: .01151879966259
PMT: .2533797063446048
PM10T: .2533797063446048

2012 Toxic Data

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2013 Criteria Data

Facility ID: 4796
CERR Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility SIC Code:	5812	**TOGT:**	.184
CO:	50	**ROGT:**	.0644
Air Basin:	SJV	**COT:**	.0834
District:	SJU	**NOXT:**	.373367989
COID:	STA	**SOXT:**	.0115188
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.253352108
CHAPIS:		**PM10T:**	.253352108

2013 Toxic Data

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

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16 | ***3 of4*** | ***WNW*** | ***0.24 / 1,277.45*** | ***266.57 / 45*** | ***MODESTO RESTAURANT GROUP***
4437 HOWARD RD
WESTLEY CA | ***EMISSIONS***

2014 Criteria Data

Facility ID:	4796	**CERR Code:**	
Facility SIC Code:	5812	**TOGT:**	.1838582903180802857142857142857142857143
CO:	50	**ROGT:**	.0643504016113281
Air Basin:	SJV	**COT:**	.0834119975566864
District:	SJU	**NOXT:**	.373367989063263
COID:	STA	**SOXT:**	.01151879966259
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.2533797063446048
CHAPIS:		**PM10T:**	.2533797063446048

2014 Toxic Data

Facility ID:	4796	**COID:**	STA
Facility SIC Code:	5812	**DISN:**	SAN JOAQUIN VALLEY APCD
CO:	50	**CHAPIS:**	
Air Basin:	SJV	**CERR Code:**	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2015 Criteria Data

Facility ID:	4796	**CERR Code:**	
Facility SIC Code:	5812	**TOGT:**	.184
CO:	50	**ROGT:**	.0644
Air Basin:	SJV	**COT:**	.0834
District:	SJU	**NOXT:**	.373367989
COID:	STA	**SOXT:**	.0115188
DISN:	SAN JOAQUIN VALLEY APCD	**PMT:**	.253352108
CHAPIS:		**PM10T:**	.253352108

2015 Toxic Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

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16 | **4 of4** | **WNW** | **0.24 / 1,277.45** | **266.57 / 45** | **MODESTO RESTAURANT GROUP**
4437 HOWARD RD
WESTLEY CA 95387 | **EMISSIONS**

2016 Criteria Data

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR CODE:
TOGT: .184
ROGT: .0644
COT: .0834
NOXT: .373367989
SOXT: .0115188
PMT: .87362795862068965517241379310344827586221
PM10T: .253352108

2016 Toxic Data

Facility ID: 4796
Facility SIC Code: 5812
CERR CODE:
COID: STA
CO: 50
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
TS:
HRA:
CH Index:
AH Index:
Air Basin: SJV
District: SJU

2017 Criteria Data

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:
TOGT: .184
ROGT: .0644
COT: .0834
NOXT: .373367989
SOXT: .0115188
PMT: .87362795862068965517241379310344827586221
PM10T: .253352108

2017 Toxic Data

Facility ID: 4796
Facility SIC Code: 5812
CO: 50
Air Basin: SJV
District: SJU
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: STA
DISN: SAN JOAQUIN VALLEY APCD
CHAPIS:
CERR Code:

2018 Criteria Data

Facility ID:	4796	***CERR Code:***	
Facility SIC Code:	5812	***TOGT:***	.0166085714285714285714285714285714285714
CO:	50	***ROGT:***	.005813
Air Basin:	SJV	***COT:***	.00883
District:	SJU	***NOXT:***	.0395
COID:	STA	***SOXT:***	.00122
DISN:	SAN JOAQUIN VALLEY APCD	***PMT:***	.0790689655172413793103448275862068965517
CHAPIS:		***PM10T:***	.02293

2018 Toxic Data

Facility ID:	4796	***COID:***	STA
Facility SIC Code:	5812	***DISN:***	SAN JOAQUIN VALLEY APCD
CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
District:	SJU		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2019 Criteria Data

CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
Facility ID:	4796	***ROGT:***	.005698
District:	SJU	***COT:***	.00883
Facility SIC Code:	5812	***NOXT:***	.0395
CO ID:	STA	***SOXT:***	.00122
DISN:	SAN JOAQUIN VALLEY APCD		
PM10T:	.02242		
TOGT:	.01628		
PMT:	.0773103448275862068965517241379310344828		

2019 Toxic Data

CO:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Faccility ID:	4796	***CERR Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	5812	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2020 Criteria Data

CO:	50	***CHAPIS:***	
Air Basin:	SJV	***CERR Code:***	
Facility ID:	4796	***ROGT:***	.004949
District:	SJU	***COT:***	.00883
Facility SIC Code:	5812	***NOXT:***	.0395
CO ID:	STA	***SOXT:***	.00122
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.01414		
PMT:	.0670344827586206896551724137931034482758		
PM10T:	.01944		

2020 Toxic Data

CO:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	4796	***CHERR Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	5812	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Toxic Data

Co:	50	***DISN:***	SAN JOAQUIN VALLEY APCD
Air Basin:	SJV	***CHAPIS:***	
Facility ID:	4796	***Cerr Code:***	
District:	SJU	***TS:***	
Facility SIC Code:	5812	***Health Risk Asmt:***	
COID:	STA		
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2021 Criteria Data

Co:	50	***CHAPIS:***	
Air Basin:	SJV	***Cerr Code:***	
Facility ID:	4796	***ROGT:***	.005061
District:	SJU	***COT:***	.00883
Facility SIC Code:	5812	***NOXT:***	.0395
CO ID:	STA	***SOXT:***	.00122
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.01414		
PMT:	.06703448275862068965517241379310344827586		
PM10T:	.01994		

2023 Pollutant Data

Facility ID:	4796	***CO:***	50
Facility SIC Code:	5812	***CO ID:***	STA
CERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
ROGT:	.003936159973144531	***NOXT:***	.0395270009636879
COT:	.00883050021529198	***SOXT:***	.0012194500297308
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.011246171351841517142857142857142857142857142		
PMT:	.05344355135950548275862068965517241379310		
PM10T:	.01549862989425659		
Source:	2023 Pollutant Data		

2022 Criteria Data

Facility ID:	4796	***District:***	SJU
Facility SIC Code:	5812	***Air Basin:***	SJV
Cerr Code:		***Co:***	50
CHAPIS:		***CO ID:***	STA
ROGT:	.00456	***NOXT:***	.0395
COT:	.00883	***SOXT:***	.00122
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.013028571428571428571428571428571428571428571		
PMT:	.06179310344827586206896551724137931034482		
PM10T:	.01792		
Source:	2022 Criteria Data		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2022 Toxic Data

Facility ID:	4796	***CO:***	50
Facility SIC Code:	5812	***Air Basin:***	SJV
CHERR Code:		***District:***	SJU
CHAPIS:		***COID:***	STA
Health Risk Asmt:		***TS:***	
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			
DISN:	SAN JOAQUIN VALLEY APCD		
Source:	2022 Toxic Data		

2023 Toxic Data

Facility ID:	4796	***CO:***	50
Facility SIC Code:	5812	***COID:***	STA
CHERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			
DISN:	SAN JOAQUIN VALLEY APCD		
Source:	2023 Toxic Data		

2024 Toxic Data

Facility ID:	4796
Facility SIC Cd:	5812
CERR Code:	
CHAPIS:	
Source:	2024 Toxic Data
TS:	
Co:	50
COID:	STA
Air Basin:	SJV
District:	SJU
Health Risk Asmt:	
Non-Cancer Chronic Haz Ind:	
Non-Cancer Acute Haz Ind:	
DISN:	SAN JOAQUIN VALLEY APCD

2024 Criteria Data

Facility ID:	4796	***CO:***	50
Facility SIC Code:	5812	***CO ID:***	STA
CERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
ROGT:	.003936159973144531	***NOXT:***	.0395270009636879
COT:	.00883050021529198	***SOXT:***	.0012194500297308
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.011246171351841517142857142857142857142857142		
PMT:	.053443551359505482758620689655172413793 1		
PM10T:	.01549862989425659		
Source:	2024 Criteria Data		

17	***1 of1***	***NW***	***0.25 / 1,334.17***	***243.86 / 22***	***CA***	***PFAS GW***

Well ID:	DM-21	***SRS Latitude:***	37.5456657409668
Gm Dataset Name:	GAMA_USGS	***SRS Longitude:***	-121.263969421387

Gm Data Source:	USGS	**Latitude:**	37.5456657409668
Gm Well Category:	Municipal	**Longitude:**	-121.263969421387
SRS Datum:			
Gm Altwell Id1:	373200121150001		
Gm Altwell Id2:			
Gm Altwell Id3:			

Well Details

Gm Cas No:		**SRC Chemical:**	PFPeA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFPA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluoropentanoic acid (PFPeA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFOS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFOS	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorooctane sulfonate (PFOS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFPeS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFPES	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluoropentane sulfonoic acid (PFPeS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	8:2 FTS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	

Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	8:2FTS	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	8:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid) (8:2 FTS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFUnDA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFUNDCA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluoroundecanoic acid (PFUnDA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFHpA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFHPA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluoroheptanoic acid (PFHpA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	6:2 FTS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	6:2FTS	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	6:2 Fluorotelomer sulfonic acid (1H,1H,2H,2H-Perfluorooctanesulfonic acid) (6:2 FTS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			

SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFNDCA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
Gm Chemical Name: Perfluorodecanoic acid (PFDA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 1030
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal
SRC Chemical: PFDA (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFDSA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
Gm Chemical Name: Perfluorodecane sulfonic acid (PFDS)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 1030
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal
SRC Chemical: PFDS (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: 4:2FTS
Gm Reporting Limit: 8
Gm Well Depth Ft: 500
Gm Chemical Name: 4:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid) (4:2 FTS)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 1030
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal
SRC Chemical: 4:2 FTS (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 8
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFHPSA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
SRC Chemical: PFHpS (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500

Gm Chemical Name:	Perfluoroheptane sulfonic acid (PFHpS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFOSA [FOSA] (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFOSA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorooctane sulfonamide (PFOSAm)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFHxA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFHA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorohexanoic acid (PFHxA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFOA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFOA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorooctanoic acid (PFOA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	N-MeFOSAA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	NMEFOSAA	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFHxS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFHXSA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorohexanesulfonic acid (PFHxS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFTeDA (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFTEDA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorotetradecanoic acid (PFTeDA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFNS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFNS	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorononane sulfonic acid (PFNS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			

Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 1030
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFTRIDA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
Gm Chemical Name: Perfluorotridecanoic acid (PFTrDA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Chemical: PFTrDA (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 1030
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFNA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
Gm Chemical Name: Perfluorononanoic acid (PFNA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Chemical: PFNA (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 1030
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: NETFOSAA
Gm Reporting Limit: 8
Gm Well Depth Ft: 500
Gm Chemical Name: N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Chemical: N-EtFOSAA (linear+branched), water, unfltd, recov
SRC Result:
SRC Result Modifie: <
Src Chemical Units: ng/l
SRC Report Limit: 8
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 1030
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note: c :
SRC Analysis Date:
SRC Well Category: Municipal

Gm Cas No:
Gm Result:
SRC Chemical: PFBA (linear+branched), water, unfltd, recov
SRC Result:

Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFBTA	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorobutyric acid (PFBA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Gm Cas No:		**SRC Chemical:**	PFBS (linear+branched), water, unfltd, recov
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	<
Gm Chemical Units:	NG/L	**Src Chemical Units:**	ng/l
Gm Chemical Vvl:	PFBSA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorobutane sulfonic acid (PFBS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	1030		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:	c :		
SRC Analysis Date:			
SRC Well Category:	Municipal		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
18	1 of2	NW	0.25 / 1,335.04	243.86 / 22	CA	PFAS GW

Well ID:	USGS-373200121150001	**SRS Latitude:**	37.54566667
Gm Dataset Name:	USGS_NWIS	**SRS Longitude:**	-121.26397222
Gm Data Source:	NWIS	**Latitude:**	37.54566667
Gm Well Category:	Municipal	**Longitude:**	-121.26397222
SRS Datum:	NAD83		
Gm Altwell Id1:	DM-21		
Gm Altwell Id2:			
Gm Altwell Id3:			

Well Details

Gm Cas No:		**SRC Chemical:**	4,8-Dioxa-3H-perfluorononanoate (DONA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	ADONA	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			

SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

Gm Cas No:
SRC Chemical: Perfluorooctanesulfonamide (PFOSA, also called FOSA), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFOSA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
Gm Chemical Name: Perfluorooctane sulfonamide (PFOSAm)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

SRC Result:
SRC Result Modifie: Not Detected
Src Chemical Units:
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500

Gm Cas No:
SRC Chemical: Perfluoroheptanoate (PFHpA), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFHPA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
Gm Chemical Name: Perfluoroheptanoic acid (PFHpA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

SRC Result:
SRC Result Modifie: Not Detected
Src Chemical Units:
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500

Gm Cas No:
SRC Chemical: Perfluoroundecanoate (PFUnDA), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFUNDCA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
Gm Chemical Name: Perfluoroundecanoic acid (PFUnDA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

SRC Result:
SRC Result Modifie: Not Detected
Src Chemical Units:
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500

Gm Cas No:
SRC Chemical: Perfluorododecanoate (PFDoDA), linear and

branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFDOA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorododecanoic acid (PFDoDA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No: **SRC Chemical:** Perfluorodecane sulfonate (PFDS), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFDSA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorodecane sulfonic acid (PFDS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No: **SRC Chemical:** Perfluorooctanoate (PFOA), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFOA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorooctanoic acid (PFOA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No: **SRC Chemical:** Perfluorohexane sulfonate (PFHxS), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFHXSA	**SRC Report Limit:**	4

Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorohexanesulfonic acid (PFHxS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No:		**SRC Chemical:**	Perfluorononane sulfonate (PFNS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFNS	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorononane sulfonic acid (PFNS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No:		**SRC Chemical:**	1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	4:2FTS	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	4:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid) (4:2 FTS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No:		**SRC Chemical:**	1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	6:2FTS	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	6:2 Fluorotelomer sulfonic acid (1H,1H,2H,2H-Perfluorooctanesulfonic acid) (6:2 FTS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			

SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

Gm Cas No:
SRC Chemical: Perfluoro-2-propoxypropanoate (HFPO-DA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:
SRC Result:
Gm Result Modifier: <
SRC Result Modifie: Not Detected
Gm Chemical Units: NG/L
Src Chemical Units:
Gm Chemical Vvl: HFPA-DA
SRC Report Limit: 20
Gm Reporting Limit: 20
SRC Analytic Meth: LM102
Gm Well Depth Ft: 500
SRC Well Depth Ft: 500
Gm Chemical Name: 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy) propanoic acid (HFPO-DA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

Gm Cas No:
SRC Chemical: Perfluorobutanoate (PFBA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:
SRC Result:
Gm Result Modifier: <
SRC Result Modifie: Not Detected
Gm Chemical Units: NG/L
Src Chemical Units:
Gm Chemical Vvl: PFBTA
SRC Report Limit: 8
Gm Reporting Limit: 8
SRC Analytic Meth: LM102
Gm Well Depth Ft: 500
SRC Well Depth Ft: 500
Gm Chemical Name: Perfluorobutyric acid (PFBA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

Gm Cas No:
SRC Chemical: Perfluoroheptane sulfonate (PFHpS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:
SRC Result:
Gm Result Modifier: <
SRC Result Modifie: Not Detected
Gm Chemical Units: NG/L
Src Chemical Units:
Gm Chemical Vvl: PFHPSA
SRC Report Limit: 4
Gm Reporting Limit: 4
SRC Analytic Meth: LM102
Gm Well Depth Ft: 500
SRC Well Depth Ft: 500
Gm Chemical Name: Perfluoroheptane sulfonic acid (PFHpS)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:

SRC Well Category:	PRODUCTION		
Gm Cas No:		**SRC Chemical:**	Perfluorobutane sulfonate (PFBS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFBSA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorobutane sulfonic acid (PFBS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		
Gm Cas No:		**SRC Chemical:**	Perfluoropentanoate (PFPeA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFPA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluoropentanoic acid (PFPeA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		
Gm Cas No:		**SRC Chemical:**	Perfluorotridecanoate (PFTrDA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFTRIDA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorotridecanoic acid (PFTrDA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		
Gm Cas No:		**SRC Chemical:**	1H,1H,2H,2H-Perfluorodecanesulfonate (8:2 FTS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	8:2FTS	**SRC Report Limit:**	8
Gm Reporting Limit:	8	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	8:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid) (8:2 FTS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No:		**SRC Chemical:**	Perfluoropentane sulfonate (PFPeS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFPES	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluoropentane sulfonoic acid (PFPeS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No:		**SRC Chemical:**	Perfluorooctane sulfonate (PFOS), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFOS	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorooctane sulfonate (PFOS)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Gm Cas No:		**SRC Chemical:**	Perfluorotetradecanoate (PFTeDA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFTEDA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorotetradecanoic acid (PFTeDA)		

Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

Gm Cas No:
SRC Chemical: N-Methylperfluorooctanesulfonamidoacetate (N-MeFOSAA), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: NMEFOSAA
Gm Reporting Limit: 8
Gm Well Depth Ft: 500
SRC Result:
SRC Result Modifie: Not Detected
Src Chemical Units:
SRC Report Limit: 8
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500
Gm Chemical Name: N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

Gm Cas No:
SRC Chemical: N-Ethylperfluorooctanesulfonamidoacetate (N-EtFOSAA), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: NETFOSAA
Gm Reporting Limit: 8
Gm Well Depth Ft: 500
SRC Result:
SRC Result Modifie: Not Detected
Src Chemical Units:
SRC Report Limit: 8
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500
Gm Chemical Name: N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:
SRC Screen Bottom Depth Ft:
SRC Lab Note:
SRC Analysis Date:
SRC Well Category: PRODUCTION

Gm Cas No:
SRC Chemical: Perfluorodecanoate (PFDA), linear and branched, water, unfiltered, recoverable, nanograms per liter

Gm Result:
Gm Result Modifier: <
Gm Chemical Units: NG/L
Gm Chemical Vvl: PFNDCA
Gm Reporting Limit: 4
Gm Well Depth Ft: 500
SRC Result:
SRC Result Modifie: Not Detected
Src Chemical Units:
SRC Report Limit: 4
SRC Analytic Meth: LM102
SRC Well Depth Ft: 500
Gm Chemical Name: Perfluorodecanoic acid (PFDA)
Gm Samp Collection Date: 08/05/2020
Gm Screen Top Depth Ft:
Gm Screen Bottom Depth Ft:
SRC Samp Collection Date: 08/05/2020
SRC Samp Collection Time: 10:30:00
SRC Screen Top Depth Ft:

SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		
Gm Cas No:		**SRC Chemical:**	Perfluorohexanoate (PFHxA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFHA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorohexanoic acid (PFHxA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		
Gm Cas No:		**SRC Chemical:**	Perfluorononanoate (PFNA), linear and branched, water, unfiltered, recoverable, nanograms per liter
Gm Result:		**SRC Result:**	
Gm Result Modifier:	<	**SRC Result Modifie:**	Not Detected
Gm Chemical Units:	NG/L	**Src Chemical Units:**	
Gm Chemical Vvl:	PFNA	**SRC Report Limit:**	4
Gm Reporting Limit:	4	**SRC Analytic Meth:**	LM102
Gm Well Depth Ft:	500	**SRC Well Depth Ft:**	500
Gm Chemical Name:	Perfluorononanoic acid (PFNA)		
Gm Samp Collection Date:	08/05/2020		
Gm Screen Top Depth Ft:			
Gm Screen Bottom Depth Ft:			
SRC Samp Collection Date:	08/05/2020		
SRC Samp Collection Time:	10:30:00		
SRC Screen Top Depth Ft:			
SRC Screen Bottom Depth Ft:			
SRC Lab Note:			
SRC Analysis Date:			
SRC Well Category:	PRODUCTION		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
18	2 of2	NW	0.25 / 1,335.04	243.86 / 22	U.S. Geological Survey CA	PFAS WATER

Organization:	U.S. Geological Survey
Monitoring Location Identifier:	USGS-373200121150001
Latitude:	37.5456666666667
Longitude:	-121.263972222222
State Territory or Tribe:	CA
State Other:	
Provider:	USGS
EPA Region:	09
Huc:	18040002
Ejscreen Report:	
Count:	1

Project Detail(s)

Activity Identifier:	cc5a776b-2d3d-4d72-9dba-c1185ff02866
Location Name:	004S006E36F001M

Fish Species:
Environmental Media Name: Water
Activity Type Code: Sample - Routine, regular
Project Identifier: 00FC19T00
Project Name:
Project File Url:
Year: 2020
Qapp Approval Agency Name:
Qapp Approved: No

Sample Result(s)

Pfas Chemical Name: Perfluoropentanesulfonate
Cas No: 175905-36-9
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: N-Methylperfluorooctanesulfonamidoacetate
Cas No: 2355-31-9
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 8.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: PFOA ion
Cas No: 45285-51-6
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:

Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorobutanesulfonate
Cas No: 45187-15-3
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorotetradecanoate
Cas No: 365971-87-5
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-
Cas No: 27619-97-2
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 8.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluoroheptanesulfonate
Cas No: 146689-46-5
Act Media Subdiv Nm: Groundwater

Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: N-Ethylperfluorooctanesulfonamidoacetate
Cas No: 2991-50-6
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 8.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorooctanesulfonate
Cas No: 45298-90-6
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluoroheptanoate
Cas No: 120885-29-2
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L

Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	8/14/2020
Laboratory Accreditation Indic:	
Activity Comment:	
Result Comment:	Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name:	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate
Cas No:	-
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	8.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	8/14/2020
Laboratory Accreditation Indic:	
Activity Comment:	
Result Comment:	Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name:	Perfluorononanoate
Cas No:	72007-68-2
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	4.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	8/14/2020
Laboratory Accreditation Indic:	
Activity Comment:	
Result Comment:	Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name:	Perfluorobutanoate
Cas No:	45048-62-2
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	8.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	8/14/2020
Laboratory Accreditation Indic:	
Activity Comment:	
Result Comment:	Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorohexanoate
Cas No: 92612-52-7
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: 4,8-dioxa-3H-perfluorononanoate
Cas No: -
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 8.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Fluorotelomer sulfonate 8:2
Cas No: 39108-34-4
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 8.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorodecanoate
Cas No: 73829-36-4
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:

Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorononanesulfonate
Cas No: 474511-07-4
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorodecanesulfonate
Cas No: 126105-34-8
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluoropentanoate
Cas No: 45167-47-3
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:

Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorohexanesulfonate
Cas No: 108427-53-8
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorooctanesulfonamide
Cas No: 754-91-6
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluoroundecanoate
Cas No: 196859-54-8
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate
Cas No: 756426-58-1
Act Media Subdiv Nm: Groundwater

Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	8.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	8/14/2020
Laboratory Accreditation Indic:	
Activity Comment:	
Result Comment:	Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name:	Fluorotelomer sulfonate 4:2
Cas No:	757124-72-4
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	8.0
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	8/14/2020
Laboratory Accreditation Indic:	
Activity Comment:	
Result Comment:	Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name:	Perfluoro(2-propoxypropanoate)
Cas No:	122499-17-6
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	20
Detection Quantitation Unit Of:	ng/L
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date:	8/14/2020
Laboratory Accreditation Indic:	
Activity Comment:	
Result Comment:	Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name:	Perfluorotridecanoate
Cas No:	862374-87-6
Act Media Subdiv Nm:	Groundwater
Result Detection:	Not Detected
Result Measure Value Ppt:	-
Result Measure Value:	-
Result Unit of Measure:	
Detection Quantitation Limit T:	Censoring Level
Detection Quantitation Measure:	4.0
Detection Quantitation Unit Of:	ng/L

Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

Sample Result(s)

Pfas Chemical Name: Perfluorododecanoate
Cas No: 171978-95-3
Act Media Subdiv Nm: Groundwater
Result Detection: Not Detected
Result Measure Value Ppt: -
Result Measure Value: -
Result Unit of Measure:
Detection Quantitation Limit T: Censoring Level
Detection Quantitation Measure: 4.0
Detection Quantitation Unit Of: ng/L
Analytical Method: PFAS SPE/LC/MS/MS SGS FL EPA537M
Analysis Start Date: 8/14/2020
Laboratory Accreditation Indic:
Activity Comment:
Result Comment: Added qualifier code: none. RTI Sample: 373200121150001

19	1 of1	NW	0.25 / 1,335.12	243.86 / 22	CA	PFAS SAMPLING

Global ID: DM-21
Location ID: DM-21
Status:
Site Use: GAMA - Priority Basin Project (USGS)
Site Type: GAMA - Priority Basin Project (USGS)
Public Water System Name: DM-21
Facility Type:
Latitude: 37.5456657409668
Longitude: -121.263969421387
Field Pt Class: WSW

PFAS Chemicals

Sample ID:
Matrix: Liquid
Chemical: PFBS
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: Perfluorobutanesulfonic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:
Lab Notes:
Reporting Limit: 4
Detection Limit:
QRAA: 0
Units: NG/L
Date: 08/05/2020

Sample ID:
Matrix: Liquid
Chemical: NMeFOSAA
Analytical Method Cd:
Qualifier: <
Value:
Chemical Name: N-Methyl perfluorooctane sulfonamidoacetic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Lab Notes:
Reporting Limit: 8
Detection Limit:
QRAA: 0
Units: NG/L
Date: 08/05/2020

Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFOSAm ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorooctane sulfonamide
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFHpA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluoroheptanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 8
Chemical: 6:2 FTS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: 6:2 Fluorotelomer sulfonic acid (1H,1H,2H,2H-Perfluorooctanesulfonic acid)
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFNS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorononane sulfonic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFOS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorooctane sulfonic acid (PFOS)

Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 8
Chemical: NEtFOSAA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: N-Ethyl perfluorooctane sulfonamidoacetic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFHpS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluoroheptanesulfonic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFHxA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorohexanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFNA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorononanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***

Matrix:	Liquid	**Reporting Limit:**	4
Chemical:	PFOA	**Detection Limit:**	
Analytical Method Cd:		**QRAA:**	0
Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	Perfluorooctanoic acid		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			
Treated Drinking Water Reporti:			
Treatd Drinking Water Sample:			
Treated Drinking Water Units:			
Treated Drinking Water Value:			

Sample ID:		**Lab Notes:**	
Matrix:	Liquid	**Reporting Limit:**	8
Chemical:	PFBA	**Detection Limit:**	
Analytical Method Cd:		**QRAA:**	0
Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	Perfluorobutanoic acid		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			
Treated Drinking Water Reporti:			
Treatd Drinking Water Sample:			
Treated Drinking Water Units:			
Treated Drinking Water Value:			

Sample ID:		**Lab Notes:**	
Matrix:	Liquid	**Reporting Limit:**	8
Chemical:	4:2 FTS	**Detection Limit:**	
Analytical Method Cd:		**QRAA:**	0
Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	4:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid)		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			
Treated Drinking Water Reporti:			
Treatd Drinking Water Sample:			
Treated Drinking Water Units:			
Treated Drinking Water Value:			

Sample ID:		**Lab Notes:**	
Matrix:	Liquid	**Reporting Limit:**	4
Chemical:	PFDS	**Detection Limit:**	
Analytical Method Cd:		**QRAA:**	0
Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	Perfluorodecanesulfonic acid		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			
Treated Drinking Water Reporti:			
Treatd Drinking Water Sample:			
Treated Drinking Water Units:			
Treated Drinking Water Value:			

Sample ID:		**Lab Notes:**	
Matrix:	Liquid	**Reporting Limit:**	4
Chemical:	PFPeA	**Detection Limit:**	
Analytical Method Cd:		**QRAA:**	0
Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	Perfluoropentanoic acid		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			

Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 8
Chemical: 8:2 FTS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: 8:2 Fluorotelomer sulfonic acid (1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid)
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFTeDA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorotetradecanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFHxS ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorohexanesulfonic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFTrDA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0
Qualifier: < ***Units:*** NG/L
Value: ***Date:*** 08/05/2020
Chemical Name: Perfluorotridecanoic acid
Regional Board:
Treated Drinking Water Dt:
Treated Drinking Water Qualifi:
Treated Drinking Water Reporti:
Treatd Drinking Water Sample:
Treated Drinking Water Units:
Treated Drinking Water Value:

Sample ID: ***Lab Notes:***
Matrix: Liquid ***Reporting Limit:*** 4
Chemical: PFUnDA ***Detection Limit:***
Analytical Method Cd: ***QRAA:*** 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	Perfluoroundecanoic acid		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			
Treated Drinking Water Reporti:			
Treatd Drinking Water Sample:			
Treated Drinking Water Units:			
Treated Drinking Water Value:			

Sample ID:		**Lab Notes:**	
Matrix:	Liquid	**Reporting Limit:**	4
Chemical:	PFPeS	**Detection Limit:**	
Analytical Method Cd:		**QRAA:**	0
Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	Perfluoropentane sulfonoic acid		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			
Treated Drinking Water Reporti:			
Treatd Drinking Water Sample:			
Treated Drinking Water Units:			
Treated Drinking Water Value:			

Sample ID:		**Lab Notes:**	
Matrix:	Liquid	**Reporting Limit:**	4
Chemical:	PFDA	**Detection Limit:**	
Analytical Method Cd:		**QRAA:**	0
Qualifier:	<	**Units:**	NG/L
Value:		**Date:**	08/05/2020
Chemical Name:	Perfluorodecanoic acid		
Regional Board:			
Treated Drinking Water Dt:			
Treated Drinking Water Qualifi:			
Treated Drinking Water Reporti:			
Treatd Drinking Water Sample:			
Treated Drinking Water Units:			
Treated Drinking Water Value:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	1 of1	WNW	0.28 / 1,494.24	268.17 / 46	AMERI OIL 4507 HOWARD WESTLEY CA	LUST

Global ID:	T0609900387	**Oil Field Op (SRCH):**	
Site Facility Type:	LUST CLEANUP SITE	**Census Tract (SRCH):**	6099003300
Site Fac Type (SRCH):	LUST CLEANUP SITE	**Latitude (DL):**	37.539489
Status Date (DL):	11/22/1999	**Longitude (DL):**	-121.265052
Case Type (DL):	LUST Cleanup Site	**RWQCB Region (DL):**	CENTRAL VALLEY RWQCB (REGION 5S)
Oil Field (SRCH):			
Status (SRCH):	COMPLETED - CASE CLOSED		
Status (DL):	Completed - Case Closed		
Cleanup Status:	COMPLETED - CASE CLOSED AS OF 11/22/1999		
Site Facility Name (SRCH):	AMERI OIL		
Address (SRCH):	4507 HOWARD		
City (SRCH):	WESTLEY		
Zip (SRCH):			
County (SRCH):	STANISLAUS		
Street No (DL):	4507		
Street Name (DL):	HOWARD		
City (DL):	WESTLEY		
Zip (DL):			
County (DL):	Stanislaus		
State (DL):	CA		
Business Name (DL):	AMERI OIL		
Site Facility Name:	AMERI OIL		
Address :	4507 HOWARD		

City : WESTLEY
Zip :
County : STANISLAUS
Report Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export (SRCH); LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download (DL); LUST Cleanup Sites from GeoTracker Search

GeoTracker Sites Data Download - Site Details

CUF Case:
Lead Agency: STANISLAUS COUNTY
Case Worker:
Local Agency:
RB Case No: 500450
Local Case No: 253
File Location:
Potential COC: Gasoline
Potential Media of Concern: Soil
Begin Date: 2/24/1999
How Discovered:
How Discovered Description:
Stop Method:
Stop Description:
Calwater Watershed Name: Delta-Mendota Canal - Patterson (541.10)
DWR GW Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)
Disadvantaged Community:
CalEnvScreen Score:
Coordinate Source: Google Geocode
Discharge Cause:
Discharge Source:
EPA Region: 9
Leak Reported Dt: 1999-02-24 00:00:00
Military DoD Site: No
No Further Action Dt: 1999-11-22 00:00:00
Qty Rlsd Gallons: 0
Facility Project Sub Type:
Calenviroscreen 3 Score: 86-90%
Calenviroscreen 4 Score: 75-80%
Claim No:
Claim Status:
A2022 Assembly District: 22
A2022 Congressional District: 13
A2022 Senate District: 4
Site History:

GeoTracker Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: VERA FISCHER
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: vera.fischer@waterboards.ca.gov
Phone No:

GeoTracker Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 11/22/1999

Status: Open - Case Begin Date
Status Date: 2/24/1999

GeoTracker Search - Regulatory Profile

Site Facility Name: AMERI OIL
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED AS OF 11/22/1999
Address: 4507 HOWARD
City: WESTLEY
Zip:
County: STANISLAUS
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 11/22/1999
Potential COC: GASOLINE
Potential Media of Concern: SOIL
File Location:
Designated Beneficial Use: MUN, AGR, IND, PROC
DWR GW Sub Basin: San Joaquin Valley - Delta-Mendota (5-022.07)
Calwater Watershed Name: Delta-Mendota Canal - Patterson (541.10)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: STANISLAUS COUNTY (LEAD) - CASE #: 253
CENTRAL VALLEY RWQCB (REGION 5S) - CASE #: 500450
CASE MANAGER: VERA FISCHER
CUF Claim No:
CUF Priority Assig:
CUF Amount Paid:
Grndwtr Monitoring Frequency:
Designated Beneficial Use Desc: Municipal and Domestic Supply, Agricultural Supply, Industrial Service Supply, Industrial Process Supply
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0609900387&tabname=regulatoryhistory
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0609900387
Site History:

No site history available

GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 11/22/1999

Status: Open - Case Begin Date
Date : 2/24/1999

GeoTracker Search - Cleanup Action Report

Action Type: UNKNOWN
Begin Date: 7/12/1999
End Date:
Phase:
Contaminant Mass Removed:
Description:

GeoTracker Search - Regulatory Activities

Action Type: Cleanup Action
Action:
Action Date: 7/12/1999
Received Issue Date:
Doc Link:
Title Description Comments:

Action Type: Notices
Action: Notice of Responsibility
Action Date: 3/1/1999
Received Issue Date: 3/1/1999
Doc Link:
Title Description Comments:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Action Type: Leak Action
Action: Leak Reported
Action Date: 2/24/1999
Received Issue Date:
Doc Link:
Title Description Comments:

GeoTracker Search - Related Cases

Identifier: UST100019005
Status: SWT-NO PLAN RETURNED
Project Name: Westley 76
Address: 4507 Howard Rd
City: WESTLEY
Association: Related Global ID
Description:
Project Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=UST100019005

21	1 of2	WNW	0.36 / 1,899.17	267.53 / 46	sbd oil inc dba westley chevron 4549 HOWARD RD WESTLEY CA 95387	DELISTED HAZ

Siteid: 382822
Latitude: 37.540218
Longitude: -121.265831
Original Source: CHAZ
Record Date: 30-MAY-2017

21	2 of2	WNW	0.36 / 1,899.17	267.53 / 46	SBD OIL WESTLEY CHEVRON 4549 HOWARD RD WESTLEY CA	RCRA TSD

Handler ID: CAL000318802
Generator Status: N
Recycler Activity?: YES
Recycler Activity Note: This facility has been identified as a Recycler Facility from the RCRA Handler Report Module with a 'Yes' for Recycler Activity with or without Storage.

Public Notes:

Contact DTSC for information.

Violation/Evaluation Summary

Note: NO RECORDS: As of Aug 2026, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer:	No	**Used Oil Transpor:**	No
Mixed Waste Gen:	No	**Used Oil Trans Fac:**	No
Transporter:	No	**Used Oil Processor:**	No
Transfer Facility:	No	**Used Oil Refiner:**	No
Recycler:	Yes	**Used Oil Burner:**	No
Onsite Burner Exem:	No	**Commercial TSD:**	No
Furnace Exemption:	No	**Recycl Nonstorage:**	No
Underground Injec:	No		
Used Oil Market Burner:	No		
Used Oil Spec Marketer:	No		

Additional Handler Summary Details

Source Type:	I	***NAIC 1:***	44719
Seq No:	1	***NAIC 2:***	
Non Notifier:		***NAIC 3:***	
Receive Date:	20070419	***NAIC 4:***	
Active Site:	H----	***State:***	CA
Land Type:		***Location Latitude:***	37.540003
In Handler Univ:	Yes	***Location Longitude:***	-121.266274
In A Universe:	Yes	***Loc GIS Primary:***	No
Gen Status:	N	***Loc GIS Origin:***	AG
Report Cycle:		***State District Owner:***	
Accessibility:		***State District:***	
Region:	09		

Fed Waste Gen Owner:	HQ
State Waste Generator Owner:	CA
State Waste Generator:	2
Short Term Generator:	No
Uni Waste:	Yes
Universal Waste Dest Facility:	Yes
Federal Universal Waste:	No
As Federally Regulated Tsdf:	------
As Converter Tsdf:	------
As State Regulated Tsdf:	------
As State Regulated Handler:	---
Federal Indicator:	---
Hsm:	N
Subpart K:	----
GPRA Permit:	N
GPRA Renewal:	N
Permit Renewal Wrkld:	------
Permwrk ID:	------
Perm Prog:	------
Pcwrkld:	------
Closwrkld:	------
GPRA Ca:	No
Cawrkld:	No
Subjca Tsd Discretion:	No
NCAPS:	No
EC Indicator:	N
Ca725 Indicator:	N
Ca750 Indicator:	N
Operating Tsdf:	------
Full Enforcement:	------
Snc:	No
Unaddressed Snc:	No
Addressed Snc:	No
Snc With Comp Sched:	No
Fa Required:	-----
Hhandler Last Change:	20190627
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Slab Importer:	No
Slab Exporter:	No
Manifest Broker:	No
Subpart P:	N
Contact Language:	EN
Handler Name:	SBD OIL WESTLEY CHEVRON
Location Street No:	
Location Street1:	4549 HOWARD RD
Location Street2:	
Location City:	WESTLEY
Location State:	CA
Location Zip:	95387
Location County Code:	CA099
Location County Name:	STANISLAUS
Location Country:	US
Contact Name:	AMARJIT SINGH
Contact Street No:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Contact Street1:	4549 HOWARD RD
Contact Street2:	
Contact City:	WESTLEY
Contact State:	CA
Contact Zip:	95387
Contact Country:	
Contact Phone & Ext:	209-894-3530
Contact Fax:	209-894-3536
Contact Email Address:	SBDOIL@YAHOO.COM
Contact Title:	
Owner Name:	AMARJIT SINGH
Owner Type:	O
Owner Seq:	1
Operator Name:	AMARJIT SINGH
Operator Type:	O
Operator Seq:	2

Hazardous Waste Handler Details

Seq No:	1
Receive Date:	20070419
Handler Name:	SBD OIL WESTLEY CHEVRON
Fed Waste Generator:	N
Generator Code Description:	Not a Generator, Verified
Tsd Activity:	Y
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street1:**	4549 HOWARD RD
Name:	AMARJIT SINGH	**Street2:**	
Dt Became Current:		**City:**	WESTLEY
Dt Ended Current:		**State:**	CA
Phone:	209-894-3530	**Country:**	
Source Type:	Implementer	**Zip:**	95387
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street1:**	PO BOX 2762 HUFF DR
Name:	AMARJIT SINGH	**Street2:**	
Dt Became Current:		**City:**	PLEASANTON
Dt Ended Current:		**State:**	CA
Phone:	209-894-3530	**Country:**	
Source Type:	Implementer	**Zip:**	94588-0000

22	*1 of1*	*WNW*	*0.42 / 2,193.77*	*263.53 / 42*	***PG&E - Pigging Line 2 ILI Brentwood to New Westley Town INGRAM CREEK ROAD & HOWARD RD WESTLEY CA 95387***	***DELISTED HAZ***

Siteid:	382381
Latitude:	37.540700
Longitude:	-121.266900
Original Source:	CHAZ
Record Date:	30-MAY-2017

23	*1 of7*	*WNW*	*0.44 / 2,345.89*	*277.10 / 55*	***WESTLEY TIRE FIRE 4549 INGRAM CREEK ROAD WESTLEY CA 95387***	***CERCLIS***

Site ID:	0905570	**RNPL Status Code:**	N
Site EPA ID:	CASFN0905570	**NPL Status:**	Not on the NPL
Site Street Address 2:		**RFED Facility Code:**	N

Site County Name:	STANISLAUS	**RFED Facility Desc:**	Not a Federal Facility
Site FIPS Code:	06099	**USGS Hydro Unit No.:**	
Region Code:	09	**Site Cong. Dist. Code:**	
Site SMSA No.:		**ROT Desc:**	
Site Prim. Latitude:		**FR NPL Update No.:**	
Site Prim. Longitude:		**RFRA Code:**	
Lat Long Source:			
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)		

CERCLIS Site Contact Name(s)

Person ID:	13003858.00
First Name:	Sharon
Last Name:	Murray
Phone No.:	4159724250
Email:	

CERCLIS Site Contact Name(s)

Person ID:	13003854.00
First Name:	Leslie
Last Name:	Ramirez
Phone No.:	4159723978
Email:	

CERCLIS Site Contact Name(s)

Person ID:	13004003.00
First Name:	Carl
Last Name:	Brickner
Phone No.:	
Email:	

CERCLIS Assess History

OU ID:	00	**RALT Short Name:**	
Act Code ID:		**Act Start Date:**	
RAT Code:		**Act Complete Date:**	
RAT Short Name:		**AGT Order No.:**	0
RAT Name:		**SH OU:**	
RAT Hist. Only Flag:		**SH Code:**	
RAT NSI Indicator:		**SH Seq:**	
RAT Level:		**SH Start Date:**	
RAT DEF OU:		**SH Complete Date:**	
RFBS Code:		**SH Lead:**	
SPA Code:			
RAT Def:			
Site Desc:	No description available .		
Site Alias:	No alias data available		

CERCLIS Assess History

OU ID:	00	**RALT Short Name:**	Fed Fac
Act Code ID:	001	**Act Start Date:**	6/14/1999 00:00:00
RAT Code:	LV	**Act Complete Date:**	11/3/1999 00:00:00
RAT Short Name:	FF RV	**AGT Order No.:**	80
RAT Name:	FEDERAL FACILITY REMOVAL	**SH OU:**	
RAT Hist. Only Flag:		**SH Code:**	
RAT NSI Indicator:	B	**SH Seq:**	
RAT Level:	1	**SH Start Date:**	
RAT DEF OU:	00	**SH Complete Date:**	
RFBS Code:	L	**SH Lead:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

SPA Code: 12
RAT Def: Provides for oversight of Federal facility response action for removals including all activities for monitoring and supervising the performance of Federal facilities to determine whether such performance is consistent with the requirements of SARA and IAG or MOA.
Site Desc:
Site Alias:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
23	2 of7	WNW	0.44 / 2,345.89	277.10 / 55	MODESTO ENERGY LP 4549 INGRAM CREEK RD WESTLEY CA	HWP

Envirostor ID: CAD982029969
Site History:

2/1/2017 - Modesto Energy operated under a variance in October 1993. An enforcement order was issued in October 1994. The facility shut down operation in Jan 2000. This facility never had ISD or a permit. This site was cleaned up via clean up program (see clean up envirostor for more info) and complete on 3/20/2007.

Quarterly Update:

2/1/2017 - Modesto Energy operated under a variance in October 1993. An enforcement order was issued in October 1994. The facility shut down operation in Jan 2000. This facility never had ISD or a permit. This site was cleaned up via clean up program (see clean up envirostor for more info) and complete on 3/20/2007.

Facilities Details

Estor/EPA ID: CAD982029969
Site Code:
Program Type1: HAZARDOUS WASTE FACILITY
Address Description: 4549 INGRAM CREEK RD
City: WESTLEY
County: STANISLAUS
Zip: 953870000
Acres:
APN:
Assembly District: 22
Census Tract: 6099003300
Funding:
Office:
Project Manager:
Special Program:
Supervisor:
Senate District: 4
Site Facility Name: MODESTO ENERGY LP
Status: CLOSED
Site Type: CLOSED
Program Type: HAZ WASTE - RCRA
Public Participation Specialis:
CalEnviroScreen Score: 75-80%
National Priorities List:
Past Use that Caused Contam:
Permit Renewal Lead:
Cleanup Oversight Agencies:
Cleanup Status:
Potential Cont of Conc:
Potential Media Affected:
School District:
Summary Link: https://www.envirostor.dtsc.ca.gov/public/hwmp_profile_report?global_id=CAD982029969

Search Results Details

Program Type: HAZ WASTE - RCRA
Site Code:
Status: CLOSED
Status Date:
CalEnviroScreen Score: 75-80%
Supervisor:
Pm:
Office: CAL CTR, LAND DISPOSAL
Branch Chief:
Address Description: 4549 INGRAM CREEK RD
Site Facility Name: MODESTO ENERGY LP
City: WESTLEY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

County: STANISLAUS
Zip: 953870000
Latitude: 37.53951
Longitude: -121.268853

Haz Waste Facility Details

Address: 4549 INGRAM CREEK RD
City: WESTLEY
County: STANISLAUS
Facility Status: CLOSED
Facility Type: Historical - Non-Operating
Latitude: 37.53951
Longitude: -121.268853
Zip: 953870000
State : CA
Senate District: 4
Assembly District: 22
Facility Name: MODESTO ENERGY LP
Facility Size:
Site Code:
Public Participation Specialis:
CalEnviroScreen Score: 86-90%
Commercial Offsite Facility Ty:
Permit Effec Dt:
Permit Exp Date:
Permit Type: RCRA
Project Manager:
Project Mnger Lead:
Pub Info Officer:
Supervisor:
Total Actual Hours:
Total Planned Amt:
Total Planned Hrs:

23	3 of7	WNW	0.44 / 2,345.89	277.10 / 55	WESTLEY FUEL SERVICE 4549 INGRAM CREEK WESTLEY CA	LUST

Global ID: T0609900136
Site Facility Type: LUST CLEANUP SITE
Site Fac Type (SRCH): LUST CLEANUP SITE
Status Date (DL): 4/10/2018
Case Type (DL): LUST Cleanup Site
Oil Field (SRCH):
Status (SRCH): COMPLETED - CASE CLOSED
Status (DL): Completed - Case Closed
Cleanup Status: COMPLETED - CASE CLOSED AS OF 4/10/2018
Site Facility Name (SRCH): WESTLEY FUEL SERVICE
Address (SRCH): 4549 INGRAM CREEK
City (SRCH): WESTLEY
Zip (SRCH): 95387
County (SRCH): STANISLAUS
Street No (DL): 4549
Street Name (DL): INGRAM CREEK
City (DL): WESTLEY
Zip (DL): 95387
County (DL): Stanislaus
State (DL): CA
Business Name (DL): WESTLEY FUEL SERVICE
Site Facility Name: WESTLEY FUEL SERVICE
Address : 4549 INGRAM CREEK
City : WESTLEY
Zip : 95387
County : STANISLAUS
Report Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export (SRCH); LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download (DL); LUST Cleanup Sites from GeoTracker Search
Oil Field Op (SRCH):
Census Tract (SRCH): 6099003300
Latitude (DL): 37.539474087
Longitude (DL): -121.269327366
RWQCB Region (DL): CENTRAL VALLEY RWQCB (REGION 5S)

GeoTracker Sites Data Download - Site Details

CUF Case:
Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
Case Worker: VJF
Local Agency:
RB Case No: 500155

Local Case No:	
File Location:	Local Agency
Potential COC:	Gasoline
Potential Media of Concern:	Well used for drinking water supply
Begin Date:	8/11/1989
How Discovered:	Tank Closure, UST System Modification
How Discovered Description:	problem w/ piping
Stop Method:	Other Means
Stop Description:	Discontinue use of unleaded product.
Calwater Watershed Name:	Delta-Mendota Canal - Patterson (541.10)
DWR GW Subbasin Name:	San Joaquin Valley - Delta-Mendota (5-022.07)
Disadvantaged Community:	Disadvantaged Community
CalEnvScreen Score:	
Coordinate Source:	Manual Entry on Screens
Discharge Cause:	Corrosion
Discharge Source:	Piping
EPA Region:	9
Leak Reported Dt:	1989-08-11 00:00:00
Military DoD Site:	No
No Further Action Dt:	2018-04-10 00:00:00
Qty Rlsd Gallons:	
Facility Project Sub Type:	
Calenviroscreen 3 Score:	86-90%
Calenviroscreen 4 Score:	75-80%
Claim No:	74, 18701
Claim Status:	Active, Ineligible
A2022 Assembly District:	22
A2022 Congressional District:	13
A2022 Senate District:	4
Site History:	

Investigation was completed and the Site closed. See Site documents for additional Site history.

GeoTracker Sites Data Download - Regulatory Activity

Action Type:	ENFORCEMENT
Date :	8/2/2002
Action:	13308 Time Schedule Order - #on file

GeoTracker Sites Data Download - Regulatory Contacts

Contact Type:	Regional Board Caseworker - Primary Caseworker
Contact Name:	VERA FISCHER
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	vera.fischer@waterboards.ca.gov
Phone No:	

GeoTracker Sites Data Download - Status History

Status:	Completed - Case Closed
Status Date:	4/10/2018
Status:	Open - Eligible for Closure
Status Date:	9/12/2017
Status:	Open - Verification Monitoring
Status Date:	8/1/2017
Status:	Open - Remediation
Status Date:	7/4/2017
Status:	Open - Site Assessment
Status Date:	6/17/2003

Status: Open - Site Assessment
Status Date: 2/14/1990

Status: Open - Site Assessment
Status Date: 10/20/1989

Status: Open - Site Assessment
Status Date: 9/5/1989

Status: Open - Case Begin Date
Status Date: 8/11/1989

GeoTracker Search - Regulatory Profile

Site Facility Name: WESTLEY FUEL SERVICE
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED AS OF 4/10/2018
Address: 4549 INGRAM CREEK
City: WESTLEY
Zip: 95387
County: STANISLAUS
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 4/10/2018
Potential COC: GASOLINE
Potential Media of Concern: WELL USED FOR DRINKING WATER SUPPLY
File Location: LOCAL AGENCY
Designated Beneficial Use: MUN, AGR, IND, PROC
DWR GW Sub Basin: San Joaquin Valley - Delta-Mendota (5-022.07)
Calwater Watershed Name: Delta-Mendota Canal - Patterson (541.10)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: CENTRAL VALLEY RWQCB (REGION 5S) (LEAD) - CASE #: 500155
CASE MANAGER: VERA FISCHER
STANISLAUS COUNTY - CASE #: 113
CUF Claim No: 74
CUF Priority Assig: C
CUF Amount Paid: $1,015,727
Grndwtr Monitoring Frequency: # OF WELLS MONITORED - ANNUALLY : 21
Designated Beneficial Use Desc: Municipal and Domestic Supply, Agricultural Supply, Industrial Service Supply, Industrial Process Supply
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0609900136&tabname=regulatoryhistory
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0609900136
Site History:

Investigation was completed and the Site closed. See Site documents for additional Site history.

GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 4/10/2018

Status: Open - Eligible for Closure
Date : 9/12/2017

Status: Open - Verification Monitoring
Date : 8/1/2017

Status: Open - Remediation
Date : 7/4/2017

Status: Open - Site Assessment
Date : 6/17/2003

Status: Open - Site Assessment
Date : 2/14/1990

Status: Open - Site Assessment
Date : 10/20/1989

Status: Open - Site Assessment
Date : 9/5/1989

Status: Open - Case Begin Date
Date : 8/11/1989

GeoTracker Search - Cleanup Action Report

Action Type: OTHER (USE DESCRIPTION FIELD)
Begin Date: 6/16/2003
End Date:
Phase: Water
Contaminant Mass Removed:
Description: Well Head Treatment via Carbon Filtration on North Domestic Well.

GeoTracker Search - Regulatory Activities

Action Type: Other Regulatory Actions
Action: Closure/No Further Action Letter
Action Date: 4/10/2018
Received Issue Date: 4/10/2018
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6355308&temptable=ENFORCEMENT
Title Description Comments:

NFA Letter

Action Type: Response Requested - Other
Action: Other Report / Document - Regulator Responded
Action Date: 3/21/2018
Received Issue Date: 3/21/2018
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5960613
Title Description Comments:

Well Destruction Permits - These are well destruction permit applications, not a request for closure.

Action Type: Response Requested - Reports
Action: Well Destruction Report
Action Date: 3/1/2018
Received Issue Date: 3/1/2018
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5959905
Title Description Comments:

Well Destruction Report

Action Type: Other Regulatory Actions
Action: Email Correspondence
Action Date: 9/12/2017
Received Issue Date: 9/12/2017
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6336159&temptable=ENFORCEMENT
Title Description Comments:

WP Review Concur with scope, but must be completed in accordance with County EHD directives and permits.

Action Type: Response Requested - Workplans
Action: Well Destruction Workplan - Regulator Responded
Action Date: 8/30/2017
Received Issue Date: 8/30/2017
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5943137
Title Description Comments:

Well Destruction Work Plan

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 8/4/2017
Received Issue Date: 8/4/2017
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6328796&temptable=ENFORCEMENT
Title Description Comments:

Well Destruction Request

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 3/13/2017
Received Issue Date: 3/13/2017
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6314056&temptable=ENFORCEMENT
Title Description Comments:

pub notice request

Action Type: Other Regulatory Actions
Action: Email Correspondence
Action Date: 2/14/2017
Received Issue Date: 2/14/2017
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6313919&temptable=ENFORCEMENT
Title Description Comments:

Email providing clarification to Site Conceptual Model documents

Action Type: Response Requested - Other
Action: Request for Closure - Regulator Responded
Action Date: 1/20/2017
Received Issue Date: 1/20/2017
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5914795
Title Description Comments:

Reponse to Email Directive Dated 19 January 2017 - Closure pending completion of public notice

Action Type: Other Regulatory Actions
Action: Email Correspondence
Action Date: 12/28/2016
Received Issue Date: 12/28/2016
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6307198&temptable=ENFORCEMENT
Title Description Comments:

email reply to NFAR and notification of case transfer

Action Type: Response Requested - Other
Action: Request for Closure
Action Date: 11/10/2016
Received Issue Date:
Doc Link:
Title Description Comments:

Action Type: Response Requested - Other
Action: Request for Closure - Regulator Responded
Action Date: 11/3/2016
Received Issue Date: 11/3/2016
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5908269

Title Description Comments:

Closure Summary Report

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 9/6/2016
Received Issue Date: 9/6/2016
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6297109&temptable=ENFORCEMENT
Title Description Comments:

REQUEST FOR SITE CLOSURE REPORT

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 7/11/2016
Received Issue Date: 8/4/2016
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5890829
Title Description Comments:

Site Evaluation Report - Met with RP and consultant on 4 August 2016 and discussed site, no report required.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 6/7/2016
Received Issue Date: 6/7/2016
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6287024&temptable=ENFORCEMENT
Title Description Comments:

REVIEW OF SITE DATA AND SUMMARY REPORT

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 4/30/2016
Received Issue Date: 12/15/2015
Doc Link:
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Action Date: 4/20/2016
Received Issue Date: 4/20/2016
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6395178&temptable=ENFORCEMENT
Title Description Comments:

2nd RSR Rationale for Addl Work April 2016

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 1/30/2016
Received Issue Date: 12/15/2015
Doc Link:
Title Description Comments:

Action Type: Response Requested - Workplans
Action: Corrective Action Plan / Remedial Action Plan - Addendum - Regulator Responded
Action Date: 9/30/2015
Received Issue Date: 9/16/2015
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5861573
Title Description Comments:

Action Type: Response Requested - Other
Action: Email Correspondence
Action Date: 4/3/2015
Received Issue Date: 4/3/2015
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5836579
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Meeting
Action Date: 4/2/2015
Received Issue Date: 4/2/2015
Doc Link:
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 3/16/2015
Received Issue Date: 3/16/2015
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6239359&temptable=ENFORCEMENT
Title Description Comments:

Schedule a mandatory office hearing

Action Type: Other Regulatory Actions
Action: Technical Correspondence / Assistance / Other
Action Date: 12/13/2013
Received Issue Date: 12/13/2013
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6185721&temptable=ENFORCEMENT
Title Description Comments:

Path to Case Closure support document

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/2/2010
Received Issue Date: 11/2/2010
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6068174&temptable=ENFORCEMENT
Title Description Comments:

Approval of the Remedial Action Workplan. Directive to submnit a workplan addendum detailing the locations of the injection points, solution concentrations, and frequency of injections.

Action Type: Response Requested - Reports
Action: Monitoring Report - Annually
Action Date: 11/1/2010
Received Issue Date: 10/29/2010
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5652199
Title Description Comments:

3Q10

Action Type: Response Requested - Workplans
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded
Action Date: 9/29/2010
Received Issue Date: 9/29/2010
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5692817
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter

Action Date: 8/9/2010
Received Issue Date: 8/9/2010
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6060503&temptable=ENFORCEMENT
Title Description Comments:

Meeting review. Directive to submit a workplan to implement the CAP.

Action Type: Other Regulatory Actions
Action: Meeting
Action Date: 8/4/2010
Received Issue Date: 8/4/2010
Doc Link:
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 8/3/2010
Received Issue Date: 8/3/2010
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247462&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Meeting
Action Date: 6/28/2010
Received Issue Date: 6/28/2010
Doc Link:
Title Description Comments:

Action Type: Response Requested - Reports
Action: Monitoring Report - Annually
Action Date: 11/1/2009
Received Issue Date: 9/18/2009
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5651047
Title Description Comments:

3Q09

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/26/2009
Received Issue Date: 5/26/2009
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6014576&temptable=ENFORCEMENT
Title Description Comments:

Review 3Q08 and 1Q09. Directive to implement the CAP and begin an annual monitoring and sampling schedule during the third quarter.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/24/2008
Received Issue Date: 11/24/2008
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5994282&temptable=ENFORCEMENT
Title Description Comments:

5-Year Review Letter

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 8/21/2008
Received Issue Date: 8/21/2008
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?

global_id=T0609900136&enforcement_id=5984930&temptable=ENFORCEMENT

Title Description Comments:

Approval of CAP for soil over excavation and treatment combined with hydrogen peroxide injection.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/21/2008
Received Issue Date: 5/21/2008
Doc Link:
Title Description Comments:

Letter to prop. owner RE:proposed soil excavation and meeting held on 5/20

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 2/22/2008
Received Issue Date: 2/22/2008
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5975648&temptable=ENFORCEMENT
Title Description Comments:

Letter to review meeting held on February 21, 2008.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 2/20/2008
Received Issue Date: 2/20/2008
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5944464&temptable=ENFORCEMENT
Title Description Comments:

Workplan Approval Letter.SC Appr. W. Destruction WP, 1-29-08,Apex

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/18/2008
Received Issue Date: 1/18/2008
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247464&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 10/18/2007
Received Issue Date: 10/18/2007
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247465&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/22/2007
Received Issue Date: 5/22/2007
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247466&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 4/18/2007
Received Issue Date: 4/18/2007
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247467&temptable=ENFORCEMENT

Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 8/10/2006
Received Issue Date: 8/10/2006
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247468&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 7/6/2006
Received Issue Date: 7/6/2006
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247469&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 12/6/2005
Received Issue Date: 12/6/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247470&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Reports
Action: Pilot Study/ Treatability Report
Action Date: 8/25/2005
Received Issue Date: 8/25/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843825
Title Description Comments:

Wellhead Treatment Report

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 6/28/2005
Received Issue Date: 6/28/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843809
Title Description Comments:

2Q05

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/6/2005
Received Issue Date: 5/6/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247471&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 4/25/2005
Received Issue Date: 4/25/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843810
Title Description Comments:

1Q05

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly

Action Date: 2/8/2005
Received Issue Date: 2/8/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843811
Title Description Comments:

4Q04

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 2/2/2005
Received Issue Date: 2/2/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843812
Title Description Comments:

3Q04

Action Type: Response Requested - Reports
Action: Interim Remedial Action Report
Action Date: 1/10/2005
Received Issue Date: 1/10/2005
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843827
Title Description Comments:

Additional Site Characterization and Dual Phase Extraction Pilot Test Report

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 8/30/2004
Received Issue Date: 8/30/2004
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843813
Title Description Comments:

2Q04

Action Type: Other Regulatory Actions
Action: Staff Letter - #on file
Action Date: 6/18/2004
Received Issue Date: 6/18/2004
Doc Link:
Title Description Comments:

Directive to submit ROF by 9-15-04 re: WP-3-5-04.

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 5/13/2004
Received Issue Date: 5/13/2004
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843814
Title Description Comments:

1Q04

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 4/22/2004
Received Issue Date: 4/22/2004
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5901396&temptable=ENFORCEMENT
Title Description Comments:

WP approved : WP Addendum Additional Site Characterization & Interim Remedial Action , Geo Tech, 3-5-04)

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly

Action Date: 3/12/2004
Received Issue Date: 3/12/2004
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843815
Title Description Comments:

4Q03

Action Type: Response Requested - Workplans
Action: Preliminary Site Assessment Workplan
Action Date: 3/5/2004
Received Issue Date: 3/5/2004
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843863
Title Description Comments:

Work Plan Addendum Additional Site Characterization and Interim Remedial Action

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/26/2004
Received Issue Date: 1/26/2004
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884299&temptable=ENFORCEMENT
Title Description Comments:

Request for amended work plan to incorporate comments.

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 12/9/2003
Received Issue Date: 12/9/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843821
Title Description Comments:

3Q02

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 11/10/2003
Received Issue Date: 11/10/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843816
Title Description Comments:

3Q03

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 9/26/2003
Received Issue Date: 9/26/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888696&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a timeline for the plan implentation of the May 2003 Work plan.

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 9/11/2003
Received Issue Date: 9/11/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843817
Title Description Comments:

2Q03

Action Type: Enforcement/Orders

Action: * Historical Enforcement - #on file
Action Date: 7/5/2003
Received Issue Date: 7/5/2003
Doc Link:
Title Description Comments:

Directive to submit Work plan.

Action Type: Cleanup Action
Action: Other (Use Description Field)
Action Date: 6/16/2003
Received Issue Date:
Doc Link:
Title Description Comments:

Well Head Treatment via Carbon Filtration on North Domestic Well.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 6/13/2003
Received Issue Date: 6/13/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976399&temptable=ENFORCEMENT
Title Description Comments:

WP appoved , Geo. Tech Work plan Additional site charaterization & Interim remedial action, May 19, 2003.

Action Type: Response Requested - Workplans
Action: Other Workplan
Action Date: 6/9/2003
Received Issue Date: 6/9/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843830
Title Description Comments:

Contingency Plan for South Domestic Well

Action Type: Response Requested - Workplans
Action: Soil and Water Investigation Workplan
Action Date: 5/19/2003
Received Issue Date: 5/19/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843864
Title Description Comments:

Work Plan Additional Site Characterization and Interim Remedial Action

Action Type: Response Requested - Workplans
Action: Preliminary Site Assessment Workplan
Action Date: 5/19/2003
Received Issue Date: 5/19/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843831
Title Description Comments:

Work Plan Additional Site Characterization and Interim Remedial Action

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 5/8/2003
Received Issue Date: 5/8/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843841
Title Description Comments:

Report Geologic Map and Cross Section

Action Type: Other Regulatory Actions

Action: Staff Letter
Action Date: 4/3/2003
Received Issue Date: 4/3/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885231&temptable=ENFORCEMENT
Title Description Comments:

Directive from the Dept. to submit a work plan & maps section.

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 3/31/2003
Received Issue Date: 3/31/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843818
Title Description Comments:

1Q03

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 3/21/2003
Received Issue Date: 3/21/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843819
Title Description Comments:

4Q02

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 3/20/2003
Received Issue Date: 3/20/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5978317&temptable=ENFORCEMENT
Title Description Comments:

Work plan approved contingent upon reciept of the directive for an addendum to be submitted.

Action Type: Response Requested - Other
Action: Correspondence
Action Date: 3/6/2003
Received Issue Date: 3/6/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843842
Title Description Comments:

Letter

Action Type: Response Requested - Workplans
Action: Other Workplan
Action Date: 2/28/2003
Received Issue Date: 2/28/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843832
Title Description Comments:

Work Plan Well Head Treatment System

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 2/21/2003
Received Issue Date: 2/21/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843844
Title Description Comments:

Report Borehole Geophysical Investigation

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 2/4/2003
Received Issue Date: 2/4/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843820
Title Description Comments:

4Q02

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/23/2003
Received Issue Date: 1/23/2003
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885232&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a complete work plan.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 10/21/2002
Received Issue Date: 10/21/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976209&temptable=ENFORCEMENT
Title Description Comments:

Comments regarding actions taken at the, 10-18-02 meeting held at Stanisaus County D.E.R. LOP staff,RP & Consultant,(GTI).

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 9/20/2002
Received Issue Date: 9/20/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843822
Title Description Comments:

2Q02

Action Type: Response Requested - Reports
Action: Sensitive Receptor Survey Report
Action Date: 8/7/2002
Received Issue Date: 8/7/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843824
Title Description Comments:

Well Receptor Survey

Action Type: Response Requested - Workplans
Action: Soil and Water Investigation Workplan
Action Date: 8/5/2002
Received Issue Date: 8/5/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843865
Title Description Comments:

Work Plan Geophysical Site Characterization and Well Investigation

Action Type: Enforcement/Orders
Action: 13308 Time Schedule Order - #on file
Action Date: 8/2/2002
Received Issue Date: 8/2/2002
Doc Link:
Title Description Comments:

Directive for submittal of a timeline for WP implementation.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 7/3/2002
Received Issue Date: 7/3/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884809&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 6/11/2002
Received Issue Date: 6/11/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884072&temptable=ENFORCEMENT
Title Description Comments:

Directive to sample the on-site domestic wells bi-monthly.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 6/10/2002
Received Issue Date: 6/10/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885235&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a work plan.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 6/6/2002
Received Issue Date: 6/6/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885234&temptable=ENFORCEMENT
Title Description Comments:

Directive to sample Northern domestic well,and submit data regarding South well.

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 5/20/2002
Received Issue Date: 5/20/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843845
Title Description Comments:

Report Soil and Groundwater Investigation

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 5/20/2002
Received Issue Date: 5/20/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843846
Title Description Comments:

Report Soil and Groundwater Investigation

Action Type: Response Requested - Reports
Action: Monitoring Report - Quarterly
Action Date: 5/20/2002
Received Issue Date: 5/20/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843823
Title Description Comments:

1Q02

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 2/8/2002
Received Issue Date: 2/8/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888706&temptable=ENFORCEMENT
Title Description Comments:

WP approved GTI, WP for VE Well Destruction, 2-5-02.

Action Type: Response Requested - Workplans
Action: Well Destruction Workplan
Action Date: 2/5/2002
Received Issue Date: 2/5/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843736
Title Description Comments:

Workplan Vapor Extraction Well Destruction

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/11/2002
Received Issue Date: 1/11/2002
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884080&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a status report.

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 12/26/2001
Received Issue Date: 12/26/2001
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843848
Title Description Comments:

Trench and Dispenser Sampling Report

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/29/2001
Received Issue Date: 5/29/2001
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247509&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/21/2001
Received Issue Date: 5/21/2001
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976400&temptable=ENFORCEMENT
Title Description Comments:

WP approved with conditions, WP Soil & GW Investigation, 4-23-01.

Action Type: Response Requested - Workplans
Action: Soil and Water Investigation Workplan
Action Date: 4/23/2001
Received Issue Date: 4/23/2001
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843867
Title Description Comments:

Work Plan Soil and Groundwater Investigation

Action Type: Response Requested - Other
Action: Other Report / Document
Action Date: 12/6/2000
Received Issue Date: 12/6/2000
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843737
Title Description Comments:

RWQCB Closure Non-Concurrence

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/8/2000
Received Issue Date: 11/8/2000
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247512&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 4/18/2000
Received Issue Date: 4/18/2000
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888705&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 12/20/1999
Received Issue Date: 12/20/1999
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843850
Title Description Comments:

Report Soil Boring Installation

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 6/24/1999
Received Issue Date: 6/24/1999
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884850&temptable=ENFORCEMENT
Title Description Comments:

WP approved, GTI, Soil & GW Invest., 5-17-99.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/25/1999
Received Issue Date: 5/25/1999
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885240&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Workplans
Action: Soil and Water Investigation Workplan
Action Date: 5/17/1999
Received Issue Date: 5/17/1999
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843868
Title Description Comments:

Work Plan Soil and Groundwater Investigation

Action Type: Response Requested - Other
Action: Other Report / Document
Action Date: 4/15/1999
Received Issue Date: 4/15/1999
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843851
Title Description Comments:

Waste Profile

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 9/16/1998
Received Issue Date: 9/16/1998
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885242&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a Work plan.

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 8/10/1998
Received Issue Date: 8/10/1998
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843852
Title Description Comments:

Report Soil Boring Installation

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 10/21/1997
Received Issue Date: 10/21/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885249&temptable=ENFORCEMENT
Title Description Comments:

WP approved, GTI, 10-8-97, Additional Site Charaterization.

Action Type: Response Requested - Workplans
Action: Soil and Water Investigation Workplan
Action Date: 10/8/1997
Received Issue Date: 10/8/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843869
Title Description Comments:

Additional Site Characterization Work Plan Soil Boring Installation

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 8/14/1997
Received Issue Date: 8/14/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885250&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a WP.

Action Type: Response Requested - Reports
Action: Vapor Intrusion Investigation Report
Action Date: 7/24/1997
Received Issue Date: 7/24/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843876
Title Description Comments:

Report Soil Gas Survey

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/27/1997
Received Issue Date: 5/27/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885251&temptable=ENFORCEMENT
Title Description Comments:

WP approved , GTI, 5-2-97, Site Charaterization- Soil Gas Survey.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/13/1997
Received Issue Date: 5/13/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247515&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Workplans
Action: Vapor Intrusion Investigation Workplan
Action Date: 5/2/1997
Received Issue Date: 5/2/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843870
Title Description Comments:

Work Plan Site Characterization - Soil Gas Survey

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 4/18/1997
Received Issue Date: 4/18/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886306&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 2/24/1997
Received Issue Date: 2/24/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886308&temptable=ENFORCEMENT
Title Description Comments:

Comments on 2-21-97, meeting held at D.E.R., directive to submit a work plan.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/3/1997
Received Issue Date: 1/3/1997
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888708&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Other
Action: Correspondence
Action Date: 11/5/1996
Received Issue Date: 11/5/1996
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843828
Title Description Comments:

Letter

Action Type: Response Requested - Other
Action: Correspondence
Action Date: 11/5/1996
Received Issue Date: 11/5/1996
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843853
Title Description Comments:

Letter

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 6/19/1996
Received Issue Date: 6/19/1996
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888710&temptable=ENFORCEMENT
Title Description Comments:

WP approved, EPM, 5-24-96-Work plan for confirmation of effectiveness of Soil vapor Extraction System, for VE Well VE-1.

Action Type: Response Requested - Workplans
Action: Interim Remedial Action Plan
Action Date: 5/24/1996
Received Issue Date: 5/24/1996
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843833
Title Description Comments:

Work Plan Confirmation of Effectiveness of Soil Vapor Extraction System, for Vapor Extraction Well VE-1

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/22/1996
Received Issue Date: 5/22/1996
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886311&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a WP.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 3/19/1996
Received Issue Date: 3/19/1996
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247520&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Other
Action: Correspondence
Action Date: 2/12/1996
Received Issue Date: 2/12/1996
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843854
Title Description Comments:

Progress Report

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/28/1995
Received Issue Date: 11/28/1995
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886312&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions

Action: Staff Letter
Action Date: 11/14/1995
Received Issue Date: 11/14/1995
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886313&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Other
Action: Correspondence
Action Date: 10/31/1995
Received Issue Date: 10/31/1995
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843829
Title Description Comments:

Letter

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 7/20/1995
Received Issue Date: 7/20/1995
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843855
Title Description Comments:

Sampling of the Southern Truck Fueling Area

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/26/1995
Received Issue Date: 1/26/1995
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888758&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a report.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 12/6/1994
Received Issue Date: 12/6/1994
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888757&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a WP.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 4/13/1994
Received Issue Date: 4/13/1994
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247523&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 12/15/1993
Received Issue Date: 12/15/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888759&temptable=ENFORCEMENT
Title Description Comments:

WPs approved, Environmental Projects Management Tech.- (Site Definition, 7-6-93, & Soil remediation Plan, 12-1-93.

Action Type: Response Requested - Workplans

Action: Interim Remedial Action Plan
Action Date: 12/1/1993
Received Issue Date: 12/1/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843834
Title Description Comments:

Remediation of Gasoline Contamination in Subsurface Soils

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/19/1993
Received Issue Date: 11/19/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885255&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 9/17/1993
Received Issue Date: 9/17/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885253&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a remedial action plan to address soil in the pump island area.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 9/16/1993
Received Issue Date: 9/16/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5978319&temptable=ENFORCEMENT
Title Description Comments:

Dept. letter to RB.

Action Type: Response Requested - Other
Action: Correspondence
Action Date: 7/26/1993
Received Issue Date: 7/26/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843856
Title Description Comments:

Letter

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 7/7/1993
Received Issue Date: 7/7/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886310&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/24/1993
Received Issue Date: 5/24/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886314&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a report of investigations.

Action Type: Response Requested - Reports

Action: Site Assessment Report
Action Date: 5/22/1993
Received Issue Date: 5/22/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843857
Title Description Comments:

Determination of the Extent of Designated Hydrocarbon Contamination of Vadose Soil

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 2/12/1993
Received Issue Date: 2/12/1993
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886315&temptable=ENFORCEMENT
Title Description Comments:

Directive to initiate the additional investigation WP by, 4-11-93.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 12/9/1992
Received Issue Date: 12/9/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888755&temptable=ENFORCEMENT
Title Description Comments:

WP Addendum approved with modifications, Uriah Environmental 12-2-92.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/18/1992
Received Issue Date: 11/18/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888700&temptable=ENFORCEMENT
Title Description Comments:

Reminder Directive to submit addendum.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/3/1992
Received Issue Date: 11/3/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888702&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/2/1992
Received Issue Date: 11/2/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247537&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 10/8/1992
Received Issue Date: 10/8/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247540&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter

Action Date: 8/25/1992
Received Issue Date: 8/25/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884849&temptable=ENFORCEMENT
Title Description Comments:

WP approved Uriah Inc., 7-3-92, directive to submit an addendum.

Action Type: Response Requested - Workplans
Action: Soil and Water Investigation Workplan
Action Date: 7/3/1992
Received Issue Date: 7/3/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843871
Title Description Comments:

Workplan for the Defination of the Extent of Gasoline Contamination of Soil and Groundwater

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/28/1992
Received Issue Date: 5/28/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888698&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit WP

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 5/1/1992
Received Issue Date: 5/1/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885238&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit report.

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 3/6/1992
Received Issue Date: 3/6/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843858
Title Description Comments:

Tank Closure Report

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 2/28/1992
Received Issue Date: 2/28/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843859
Title Description Comments:

Soil Samples Aquired

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/9/1992
Received Issue Date: 1/9/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976210&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit WP (30)days, and provide timeline.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 1/6/1992
Received Issue Date: 1/6/1992
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884846&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/22/1991
Received Issue Date: 11/22/1991
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886305&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit a work plan for soil cleanup.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/8/1991
Received Issue Date: 11/8/1991
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886307&temptable=ENFORCEMENT
Title Description Comments:

Directive to submit WP.

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 4/23/1991
Received Issue Date: 4/23/1991
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888753&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 10/30/1990
Received Issue Date: 10/30/1990
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247458&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Reports
Action: Site Assessment Report
Action Date: 5/31/1990
Received Issue Date: 5/31/1990
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843860
Title Description Comments:

Report Phase I Site Assessment

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 2/14/1990
Received Issue Date: 2/14/1990
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886304&temptable=ENFORCEMENT
Title Description Comments:

WP approved, Addendum

Action Type: Response Requested - Workplans
Action: Preliminary Site Assessment Workplan - Addendum
Action Date: 1/11/1990
Received Issue Date: 1/11/1990
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843872
Title Description Comments:

Addendum to Work Plan Phase I Preliminary Site Assessment

Action Type: Other Regulatory Actions
Action: Staff Letter
Action Date: 11/7/1989
Received Issue Date: 11/7/1989
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885247&temptable=ENFORCEMENT
Title Description Comments:

WP approved for 10-20-89, subsurface investigation with directive to submit an addendum.

Action Type: Response Requested - Workplans
Action: Preliminary Site Assessment Workplan
Action Date: 10/20/1989
Received Issue Date: 10/20/1989
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0609900136&doc_id=5843875
Title Description Comments:

Work Plan Phase I Preliminary Site Assessment

Action Type: Notices
Action: Notice of Responsibility
Action Date: 9/5/1989
Received Issue Date: 9/5/1989
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885236&temptable=ENFORCEMENT
Title Description Comments:

I.E.L.

Action Type: Leak Action
Action: Leak Stopped
Action Date: 8/11/1989
Received Issue Date:
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action: Leak Reported
Action Date: 8/11/1989
Received Issue Date:
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action: Leak Discovery
Action Date: 8/11/1989
Received Issue Date:
Doc Link:
Title Description Comments:

Action Type: Other Regulatory Actions
Action: Unauthorized Release Form
Action Date: 8/1/1989
Received Issue Date: 8/1/1989

Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247453&temptable=ENFORCEMENT

Title Description Comments:

URF

GeoTracker Search - Documents

Document Type: Site Documents ***Submitted:***
Document Date: 4/10/2018
Type: CLOSURE/NO FURTHER ACTION LETTER
Submitted By: VERA FISCHER (REGULATOR)
Title: NFA LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6355308

Document Type: Site Documents ***Submitted:***
Document Date: 3/21/2018
Type: REQUEST FOR CLOSURE
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: WELL DESTRUCTION PERMITS
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2405685663/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 3/1/2018
Type: WELL DESTRUCTION REPORT
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: WELL DESTRUCTION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9679596185/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 9/12/2017
Type: EMAIL CORRESPONDENCE
Submitted By: CHRISTOPHER FLOWER (REGULATOR)
Title: WP REVIEW
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6336159

Document Type: Site Documents ***Submitted:***
Document Date: 8/30/2017
Type: WELL DESTRUCTION WORKPLAN
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: WELL DESTRUCTION WORK PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6198538422/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 8/4/2017
Type: STAFF LETTER
Submitted By: CHRISTOPHER FLOWER (REGULATOR)
Title: WELL DESTRUCTION REQUEST
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6328796

Document Type: Site Documents ***Submitted:***
Document Date: 8/1/2017
Type: OTHER REPORT / DOCUMENT
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: PUBLIC NOTICE
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2539751052/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 3/13/2017
Type: STAFF LETTER
Submitted By: CHRISTOPHER FLOWER (REGULATOR)
Title: PUB NOTICE REQUEST
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6314056

Document Type: Site Documents ***Submitted:***
Document Date: 2/14/2017
Type: EMAIL CORRESPONDENCE

Submitted By: CHRISTOPHER FLOWER (REGULATOR)
Title: EMAIL PROVIDING CLARIFICATION TO SITE CONCEPTUAL MODEL DOCUMENTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6313919

Document Type: Site Documents **Submitted:**
Document Date: 1/20/2017
Type: REQUEST FOR CLOSURE
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: REPONSE TO EMAIL DIRECTIVE DATED 19 JANUARY 2017
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5417757034/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 12/28/2016
Type: EMAIL CORRESPONDENCE
Submitted By: CHRISTOPHER FLOWER (REGULATOR)
Title: EMAIL REPLY TO NFAR AND NOTIFICATION OF CASE TRANSFER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6307198

Document Type: Site Documents **Submitted:**
Document Date: 11/3/2016
Type: REQUEST FOR CLOSURE
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: CLOSURE SUMMARY REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1780631721/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 9/6/2016
Type: STAFF LETTER
Submitted By: MICHAEL T. SMITH (REGULATOR)
Title: REQUEST FOR SITE CLOSURE REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6297109

Document Type: Site Documents **Submitted:**
Document Date: 8/4/2016
Type: SITE ASSESSMENT REPORT
Submitted By: MICHAEL T. SMITH (REGULATOR)
Title: SITE EVALUATION REPORT - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5890829

Document Type: Site Documents **Submitted:**
Document Date: 6/7/2016
Type: STAFF LETTER
Submitted By: MICHAEL T. SMITH (REGULATOR)
Title: REVIEW OF SITE DATA AND SUMMARY REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6287024

Document Type: Site Documents **Submitted:**
Document Date: 4/20/2016
Type: CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR)
Submitted By: (REGULATOR)
Title: 2ND RSR RATIONALE FOR ADDL WORK APRIL 2016
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6395178

Document Type: Monitoring Reports **Submitted:**
Document Date: 12/15/2015*
Type: MONITORING REPORT - QUARTERLY
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3280889928/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 9/16/2015
Type: REMEDIAL INVESTIGATION WORKPLAN
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: REMEDIAL ACTION WORK PLAN - ADDENDUM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1265589118/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 9/16/2015

Type: CORRECTIVE ACTION PLAN / REMEDIAL ACTION PLAN - ADDENDUM
Submitted By: MICHAEL T. SMITH (REGULATOR)
Title: CORRECTIVE ACTION PLAN / REMEDIAL ACTION PLAN - ADDENDUM - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5861573

Document Type: Monitoring Reports **Submitted:**
Document Date: 5/7/2015
Type: MONITORING REPORT - QUARTERLY
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: GROUNDWATER MONITORING REPORT - SECOND QUARTER 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5601480841/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 4/3/2015
Type: EMAIL CORRESPONDENCE
Submitted By: AMBER MINAMI (REGULATOR)
Title: EMAIL CORRESPONDENCE - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5836579

Document Type: Site Documents **Submitted:**
Document Date: 3/16/2015
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: SCHEDULE A MANDATORY OFFICE HEARING
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6239359

Document Type: Site Documents **Submitted:**
Document Date: 12/13/2013
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
Submitted By: HORACIO FERRIZ (REGULATOR)
Title: PATH TO CASE CLOSURE SUPPORT DOCUMENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6185721

Document Type: Site Documents **Submitted:**
Document Date: 11/2/2010
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: APPROVAL OF THE REMEDIAL ACTION WORKPLAN. DIRECTIVE TO SUBMNIT A WORKPLAN ADDENDUM DETAILING THE LOCATIONS OF THE INJECTION POINTS, SOLUTION CONCENTRATIONS, AND FREQUENCY OF INJECTIONS.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6068174

Document Type: Monitoring Reports **Submitted:**
Document Date: 10/25/2010
Type: MONITORING REPORT - ANNUALLY
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: ANNUAL GROUND WATER MONITORING REPORT - SECOND QUARTER 2010
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1549805641/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 9/29/2010
Type: OTHER WORKPLAN
Submitted By: ADVANCED-GEOENVIRONMENTAL (AUTH_RP)
Title: REMEDIAL ACTION WORK PLAN - SOIL AND GROUND WATER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1369813323/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 8/9/2010
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: MEETING REVIEW. DIRECTIVE TO SUBMIT A WORKPLAN TO IMPLEMENT THE CAP.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6060503

Document Type: Site Documents **Submitted:**
Document Date: 8/3/2010
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247462

Document Type: Monitoring Reports **Submitted:**
Document Date: 9/16/2009
Type: MONITORING REPORT - ANNUALLY
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: THIRD QUARTER 2009 ANNUAL GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9098578214/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 6/19/2009
Type: MONITORING REPORT - QUARTERLY
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: FIRST QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8243514120/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 5/26/2009
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: REVIEW 3Q08 AND 1Q09. DIRECTIVE TO IMPLEMENT THE CAP AND BEGIN AN ANNUAL MONITORING AND SAMPLING SCHEDULE DURING THE THIRD QUARTER.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6014576

Document Type: Monitoring Reports **Submitted:**
Document Date: 12/23/2008
Type: MONITORING REPORT - QUARTERLY
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: 3RD QMR 08
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1654580235/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 11/24/2008
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: 5-YEAR REVIEW LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5994282

Document Type: Site Documents **Submitted:**
Document Date: 8/21/2008
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: APPROVAL OF CAP FOR SOIL OVER EXCAVATION AND TREATMENT COMBINED WITH HYDROGEN PEROXIDE INJECTION.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5984930

Document Type: Site Documents **Submitted:**
Document Date: 8/18/2008
Type: CAP/RAP - FEASIBILITY STUDY REPORT
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: CORRECTIVE ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9763060629/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 6/4/2008
Type: MONITORING REPORT - QUARTERLY
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: 1ST QTR 2008 MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9322207391/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 5/21/2008
Type: LETTER
Submitted By: CHARMAINE CHAMPAGNE (REGULATOR)
Title: 4549 INGRAM CREEK
Title Link: https://geotracker.waterboards.ca.gov/site_documents/1463531315/4549%20Ingram%20Creek%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 2/28/2008
Type: WORKPLANS - INVESTIGATION WP

Submitted By: TOM LANDWEHR (AUTH_RP)
Title: WELL DESTRUCTION AND EXCAVATION WORKPLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1220326304/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 2/22/2008
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: LETTER TO REVIEW MEETING HELD ON FEBRUARY 21, 2008.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5975648

Document Type: Site Documents ***Submitted:***
Document Date: 2/20/2008
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORKPLAN APPROVAL LETTER.SC APPR. W. DESTRUCTION WP, 1-29-08,APEX
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5944464

Document Type: Site Documents ***Submitted:***
Document Date: 1/18/2008
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247464

Document Type: Monitoring Reports ***Submitted:***
Document Date: 11/15/2007
Type: MONITORING REPORT - QUARTERLY
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: 4TH QTR 2007 MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5860456705/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 10/18/2007
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247465

Document Type: Site Documents ***Submitted:***
Document Date: 10/18/2007
Type: WORKPLANS - INVESTIGATION WP
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: ADDITIONAL INVESTIGATION WORKPLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3055056512/T0609900136.PDF

Document Type: Monitoring Reports ***Submitted:***
Document Date: 10/18/2007
Type: MONITORING REPORT - QUARTERLY
Submitted By: TOM LANDWEHR (AUTH_RP)
Title: 3RD QTR 2007 MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3017822086/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 5/22/2007
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247466

Document Type: Site Documents ***Submitted:***
Document Date: 4/18/2007
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247467

Document Type: Site Documents ***Submitted:***
Document Date: 4/3/2007

Type: REPORTS - QUARTERLY STATUS REPORT
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 1ST QMR 2007 2 OF 2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6664189219/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 4/3/2007
Type: REPORTS - QUARTERLY STATUS REPORT
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 1ST QMR 2007 1 OF 2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7452237784/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 3/30/2007
Type: REPORTS - INVESTIGATION RPT.
Submitted By: RAY KABLANOW (AUTH_RP)
Title: ADDL SITE CHARACTERIZATION 1 OF 3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1006834268/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 3/30/2007
Type: REPORTS - INVESTIGATION RPT.
Submitted By: RAY KABLANOW (AUTH_RP)
Title: ADDL SITE CHARACTERIZATION 2 OF 3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3844190835/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 3/30/2007
Type: REPORTS - INVESTIGATION RPT.
Submitted By: RAY KABLANOW (AUTH_RP)
Title: ADDL SITE CHARACTERIZATION 3 OF 3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7824770867/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 12/19/2006
Type: REPORTS - QUARTERLY STATUS REPORT
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 4TH QTR 2006 GWM 1 OF 2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5719145059/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 12/19/2006
Type: REPORTS - QUARTERLY STATUS REPORT
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 4TH QTR 2006 GWM 2 OF 2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9647402703/T0609900136.PDF

Document Type: Monitoring Reports ***Submitted:***
Document Date: 9/29/2006
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 3RD QUARTER GROUNGWATER MONITORING REPORT 2006
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9428815543/T0609900136.PDF

Document Type: Site Documents ***Submitted:***
Document Date: 8/10/2006
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247468

Document Type: Site Documents ***Submitted:***
Document Date: 7/24/2006
Type: WORKPLANS - REMEDIAL ACTION PLAN
Submitted By: RAY KABLANOW (AUTH_RP)
Title: INTERIM REMEDIAL ACTION WP
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2819811761/T0609900136.PDF

Document Type: Site Documents ***Submitted:***

Document Date: 7/6/2006
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247469

Document Type: Monitoring Reports **Submitted:**
Document Date: 6/22/2006
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: GROUNDWATER MONITORING 2ND QRT 06
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5362048089/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 4/26/2006
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 1ST QTR 2006 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9672987222/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 4/26/2006
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 1ST QTR 2006 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3894040763/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 2/16/2006
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 4TH QTR 2005 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9044784367/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 2/16/2006
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 4TH QTR 2005 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8282529532/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 12/20/2005
Type: WORKPLANS - REMEDIAL ACTION PLAN
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 432 IRAP WP 0512
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4853225529/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 12/6/2005
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247470

Document Type: Monitoring Reports **Submitted:**
Document Date: 11/2/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 3RD QTR 2005 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2334531486/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 11/2/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 3RD QTR 2005 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7835209488/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 11/2/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 3RD QTR 2005 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8157697379/T0609900136.PDF

Document Type: Site Documents **Submitted:**
Document Date: 8/25/2005
Type: PILOT STUDY/ TREATABILITY REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: WELLHEAD TREATMENT REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843825

Document Type: Monitoring Reports **Submitted:**
Document Date: 6/28/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 2Q05 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/9721835076/2005%2E06%2E28%202Q05%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 5/6/2005
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247471

Document Type: Monitoring Reports **Submitted:**
Document Date: 5/4/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: RAY KABLANOW (AUTH_RP)
Title: 43 1ST QTR 2005 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4726667106/T0609900136.PDF

Document Type: Monitoring Reports **Submitted:**
Document Date: 4/25/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 1Q05 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/3748293817/2005%2E04%2E25%201Q05%2Epdf

Document Type: Monitoring Reports **Submitted:**
Document Date: 2/8/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 4Q04 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/4544235050/2005%2E02%2E08%204Q04%2Epdf

Document Type: Monitoring Reports **Submitted:**
Document Date: 2/2/2005
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 3Q04 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/9605970621/2005%2E02%2E02%203Q04%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 1/10/2005
Type: INTERIM REMEDIAL ACTION REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: ADDITIONAL SITE CHARACTERIZATION AND DUAL PHASE EXTRACTION PILOT TEST REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843827

Document Type: Monitoring Reports **Submitted:**
Document Date: 8/30/2004

Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 2Q04 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/8861784219/2004%2E08%2E30%202Q04%2Epdf

Document Type: Monitoring Reports **Submitted:**
Document Date: 5/13/2004
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 1Q04 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/1354098260/2004%2E05%2E13%201Q04%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 4/22/2004
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED : WP ADDENDUM ADDITIONAL SITE CHARACTERIZATION & INTERIM REMEDIAL ACTION , GEO TECH, 3-5-04)
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5901396

Document Type: Monitoring Reports **Submitted:**
Document Date: 3/12/2004
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 4Q03 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/5356321573/2004%2E03%2E12%204Q03%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 3/5/2004
Type: PRELIMINARY SITE ASSESSMENT WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN ADDENDUM ADDITIONAL SITE CHARACTERIZATION AND INTERIM REMEDIAL ACTION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843863

Document Type: Site Documents **Submitted:**
Document Date: 1/26/2004
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: REQUEST FOR AMENDED WORK PLAN TO INCORPORATE COMMENTS.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884299

Document Type: Monitoring Reports **Submitted:**
Document Date: 12/9/2003
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 3Q02 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/1294952869/2002%2E12%2E09%203Q02%2Epdf

Document Type: Monitoring Reports **Submitted:**
Document Date: 11/10/2003
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 3Q03 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/2757765829/2003%2E11%2E10%203Q03%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 9/26/2003
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A TIMELINE FOR THE PLAN IMPLENTATION OF THE MAY 2003 WORK PLAN.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888696

Document Type: Monitoring Reports **Submitted:**
Document Date: 9/11/2003

Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 2Q03 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/9810398936/2003%2E09%2E11%202Q03%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 6/13/2003
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPOVED , GEO. TECH WORK PLAN ADDITIONAL SITE CHARATERIZATION & INTERIM REMEDIAL ACTION, MAY 19, 2003.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976399

Document Type: Site Documents **Submitted:**
Document Date: 6/9/2003
Type: OTHER WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: CONTINGENCY PLAN FOR SOUTH DOMESTIC WELL
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843830

Document Type: Site Documents **Submitted:**
Document Date: 5/19/2003
Type: PRELIMINARY SITE ASSESSMENT WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN ADDITIONAL SITE CHARACTERIZATION AND INTERIM REMEDIAL ACTION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843831

Document Type: Site Documents **Submitted:**
Document Date: 5/19/2003
Type: SOIL AND WATER INVESTIGATION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN ADDITIONAL SITE CHARACTERIZATION AND INTERIM REMEDIAL ACTION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843864

Document Type: Site Documents **Submitted:**
Document Date: 5/8/2003
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT GEOLOGIC MAP AND CROSS SECTION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843841

Document Type: Site Documents **Submitted:**
Document Date: 4/3/2003
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE FROM THE DEPT. TO SUBMIT A WORK PLAN & MAPS SECTION.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885231

Document Type: Monitoring Reports **Submitted:**
Document Date: 3/31/2003
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 1Q03 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/8275471568/2003%2E03%2E31%201Q03%2Epdf

Document Type: Monitoring Reports **Submitted:**
Document Date: 3/21/2003
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 4Q02 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/8764088511/2003%2E03%2E21%204Q02%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 3/20/2003
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)

Title: WORK PLAN APPROVED CONTINGENT UPON RECIEPT OF THE DIRECTIVE FOR AN ADDENDUM TO BE SUBMITTED.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5978317

Document Type: Site Documents ***Submitted:***
Document Date: 3/6/2003
Type: CORRESPONDENCE
Submitted By: AMBER MINAMI (REGULATOR)
Title: LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843842

Document Type: Site Documents ***Submitted:***
Document Date: 2/28/2003
Type: OTHER WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN WELL HEAD TREATMENT SYSTEM
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843832

Document Type: Site Documents ***Submitted:***
Document Date: 2/21/2003
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT BOREHOLE GEOPHYSICAL INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843844

Document Type: Monitoring Reports ***Submitted:***
Document Date: 2/4/2003
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 4Q02 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/3021726310/2003%2E02%2E04%204Q02%2Epdf

Document Type: Site Documents ***Submitted:***
Document Date: 1/23/2003
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A COMPLETE WORK PLAN.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885232

Document Type: Site Documents ***Submitted:***
Document Date: 10/21/2002
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: COMMENTS REGARDING ACTIONS TAKEN AT THE, 10-18-02 MEETING HELD AT STANISAUS COUNTY D.E. R. LOP STAFF,RP & CONSULTANT,(GTI).
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976209

Document Type: Monitoring Reports ***Submitted:***
Document Date: 9/20/2002
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 2Q02 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/5498731851/2002%2E09%2E20%202Q02%2Epdf

Document Type: Site Documents ***Submitted:***
Document Date: 8/7/2002
Type: SENSITIVE RECEPTOR SURVEY REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: WELL RECEPTOR SURVEY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843824

Document Type: Site Documents ***Submitted:***
Document Date: 8/5/2002
Type: SOIL AND WATER INVESTIGATION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN GEOPHYSICAL SITE CHARACTERIZATION AND WELL INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843865

Document Type: Site Documents **Submitted:**
Document Date: 7/3/2002
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884809

Document Type: Site Documents **Submitted:**
Document Date: 6/11/2002
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SAMPLE THE ON-SITE DOMESTIC WELLS BI-MONTHLY.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884072

Document Type: Site Documents **Submitted:**
Document Date: 6/10/2002
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A WORK PLAN.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885235

Document Type: Site Documents **Submitted:**
Document Date: 6/6/2002
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SAMPLE NORTHERN DOMESTIC WELL,AND SUBMIT DATA REGARDING SOUTH WELL.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885234

Document Type: Site Documents **Submitted:**
Document Date: 5/20/2002
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT SOIL AND GROUNDWATER INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843846

Document Type: Monitoring Reports **Submitted:**
Document Date: 5/20/2002
Type: MONITORING REPORT - QUARTERLY
Submitted By: AMBER MINAMI (REGULATOR)
Title: 1Q02 -
Title Link: https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7160099625/2002%2E05%2E20%201Q02%2Epdf

Document Type: Site Documents **Submitted:**
Document Date: 5/20/2002
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT SOIL AND GROUNDWATER INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843845

Document Type: Site Documents **Submitted:**
Document Date: 2/8/2002
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED GTI, WP FOR VE WELL DESTRUCTION, 2-5-02.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888706

Document Type: Site Documents **Submitted:**
Document Date: 2/5/2002
Type: WELL DESTRUCTION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORKPLAN VAPOR EXTRACTION WELL DESTRUCTION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843736

Document Type: Site Documents **Submitted:**
Document Date: 1/11/2002
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)

Title: DIRECTIVE TO SUBMIT A STATUS REPORT.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884080

Document Type: Site Documents **Submitted:**
Document Date: 12/26/2001
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: TRENCH AND DISPENSER SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843848

Document Type: Site Documents **Submitted:**
Document Date: 5/29/2001
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247509

Document Type: Site Documents **Submitted:**
Document Date: 5/21/2001
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED WITH CONDITIONS, WP SOIL & GW INVESTIGATION, 4-23-01.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976400

Document Type: Site Documents **Submitted:**
Document Date: 4/23/2001
Type: SOIL AND WATER INVESTIGATION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN SOIL AND GROUNDWATER INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843867

Document Type: Site Documents **Submitted:**
Document Date: 12/6/2000
Type: OTHER REPORT / DOCUMENT
Submitted By: AMBER MINAMI (REGULATOR)
Title: RWQCB CLOSURE NON-CONCURRENCE - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843737

Document Type: Site Documents **Submitted:**
Document Date: 11/8/2000
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247512

Document Type: Site Documents **Submitted:**
Document Date: 4/18/2000
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888705

Document Type: Site Documents **Submitted:**
Document Date: 12/20/1999
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT SOIL BORING INSTALLATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843850

Document Type: Site Documents **Submitted:**
Document Date: 6/24/1999
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED, GTI, SOIL & GW INVEST., 5-17-99.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884850

Document Type: Site Documents **Submitted:**
Document Date: 5/25/1999
Type: STAFF LETTER

Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885240

Document Type: Site Documents **Submitted:**
Document Date: 5/17/1999
Type: SOIL AND WATER INVESTIGATION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN SOIL AND GROUNDWATER INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843868

Document Type: Site Documents **Submitted:**
Document Date: 4/15/1999
Type: OTHER REPORT / DOCUMENT
Submitted By: AMBER MINAMI (REGULATOR)
Title: WASTE PROFILE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843851

Document Type: Site Documents **Submitted:**
Document Date: 9/16/1998
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A WORK PLAN.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885242

Document Type: Site Documents **Submitted:**
Document Date: 8/10/1998
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT SOIL BORING INSTALLATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843852

Document Type: Site Documents **Submitted:**
Document Date: 10/21/1997
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED, GTI, 10-8-97, ADDITIONAL SITE CHARATERIZATION.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885249

Document Type: Site Documents **Submitted:**
Document Date: 10/8/1997
Type: SOIL AND WATER INVESTIGATION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: ADDITIONAL SITE CHARACTERIZATION WORK PLAN SOIL BORING INSTALLATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843869

Document Type: Site Documents **Submitted:**
Document Date: 8/14/1997
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A WP.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885250

Document Type: Site Documents **Submitted:**
Document Date: 7/24/1997
Type: VAPOR INTRUSION INVESTIGATION REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT SOIL GAS SURVEY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843876

Document Type: Site Documents **Submitted:**
Document Date: 5/27/1997
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED , GTI, 5-2-97, SITE CHARATERIZATION- SOIL GAS SURVEY.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885251

Document Type: Site Documents **Submitted:**
Document Date: 5/13/1997

Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247515

Document Type: Site Documents ***Submitted:***
Document Date: 5/2/1997
Type: VAPOR INTRUSION INVESTIGATION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN SITE CHARACTERIZATION - SOIL GAS SURVEY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843870

Document Type: Site Documents ***Submitted:***
Document Date: 4/18/1997
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886306

Document Type: Site Documents ***Submitted:***
Document Date: 2/24/1997
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: COMMENTS ON 2-21-97, MEETING HELD AT D.E.R., DIRECTIVE TO SUBMIT A WORK PLAN.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886308

Document Type: Site Documents ***Submitted:***
Document Date: 1/3/1997
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888708

Document Type: Site Documents ***Submitted:***
Document Date: 11/5/1996
Type: CORRESPONDENCE
Submitted By: AMBER MINAMI (REGULATOR)
Title: LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843828

Document Type: Site Documents ***Submitted:***
Document Date: 11/5/1996
Type: CORRESPONDENCE
Submitted By: AMBER MINAMI (REGULATOR)
Title: LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843853

Document Type: Site Documents ***Submitted:***
Document Date: 6/19/1996
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED, EPM, 5-24-96-WORK PLAN FOR CONFIRMATION OF EFFECTIVENESS OF SOIL VAPOR EXTRACTION SYSTEM, FOR VE WELL VE-1.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888710

Document Type: Site Documents ***Submitted:***
Document Date: 5/24/1996
Type: INTERIM REMEDIAL ACTION PLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN CONFIRMATION OF EFFECTIVENESS OF SOIL VAPOR EXTRACTION SYSTEM, FOR VAPOR EXTRACTION WELL VE-1
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843833

Document Type: Site Documents ***Submitted:***
Document Date: 5/22/1996
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A WP.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886311

Document Type: Site Documents ***Submitted:***
Document Date: 3/19/1996
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247520

Document Type: Site Documents ***Submitted:***
Document Date: 2/12/1996
Type: CORRESPONDENCE
Submitted By: AMBER MINAMI (REGULATOR)
Title: PROGRESS REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843854

Document Type: Site Documents ***Submitted:***
Document Date: 11/28/1995
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886312

Document Type: Site Documents ***Submitted:***
Document Date: 11/14/1995
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886313

Document Type: Site Documents ***Submitted:***
Document Date: 10/31/1995
Type: CORRESPONDENCE
Submitted By: AMBER MINAMI (REGULATOR)
Title: LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843829

Document Type: Site Documents ***Submitted:***
Document Date: 7/20/1995
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: SAMPLING OF THE SOUTHERN TRUCK FUELING AREA
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843855

Document Type: Site Documents ***Submitted:***
Document Date: 1/26/1995
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A REPORT.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888758

Document Type: Site Documents ***Submitted:***
Document Date: 12/6/1994
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A WP.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888757

Document Type: Site Documents ***Submitted:***
Document Date: 4/13/1994
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247523

Document Type: Site Documents ***Submitted:***
Document Date: 12/15/1993
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WPS APPROVED, ENVIRONMENTAL PROJECTS MANAGEMENT TECH.- (SITE DEFINITION, 7-6-93, & SOIL

REMEDIATION PLAN, 12-1-93.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888759

Document Type: Site Documents ***Submitted:***
Document Date: 12/1/1993
Type: INTERIM REMEDIAL ACTION PLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: REMEDIATION OF GASOLINE CONTAMINATION IN SUBSURFACE SOILS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843834

Document Type: Site Documents ***Submitted:***
Document Date: 11/19/1993
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885255

Document Type: Site Documents ***Submitted:***
Document Date: 9/17/1993
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A REMEDIAL ACTION PLAN TO ADDRESS SOIL IN THE PUMP ISLAND AREA.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885253

Document Type: Site Documents ***Submitted:***
Document Date: 9/16/1993
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DEPT. LETTER TO RB.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5978319

Document Type: Site Documents ***Submitted:***
Document Date: 7/26/1993
Type: CORRESPONDENCE
Submitted By: AMBER MINAMI (REGULATOR)
Title: LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843856

Document Type: Site Documents ***Submitted:***
Document Date: 7/7/1993
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886310

Document Type: Site Documents ***Submitted:***
Document Date: 5/24/1993
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A REPORT OF INVESTIGATIONS.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886314

Document Type: Site Documents ***Submitted:***
Document Date: 5/22/1993
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: DETERMINATION OF THE EXTENT OF DESIGNATED HYDROCARBON CONTAMINATION OF VADOSE SOIL
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843857

Document Type: Site Documents ***Submitted:***
Document Date: 2/12/1993
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO INITIATE THE ADDITIONAL INVESTIGATION WP BY, 4-11-93.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886315

Document Type: Site Documents ***Submitted:***
Document Date: 12/9/1992
Type: STAFF LETTER

Submitted By: AMBER MINAMI (REGULATOR)
Title: WP ADDENDUM APPROVED WITH MODIFICATIONS, URIAH ENVIRONMENTAL 12-2-92.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888755

Document Type: Site Documents **Submitted:**
Document Date: 11/18/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: REMINDER DIRECTIVE TO SUBMIT ADDENDUM.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888700

Document Type: Site Documents **Submitted:**
Document Date: 11/3/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888702

Document Type: Site Documents **Submitted:**
Document Date: 11/2/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247537

Document Type: Site Documents **Submitted:**
Document Date: 10/8/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247540

Document Type: Site Documents **Submitted:**
Document Date: 8/25/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED URIAH INC., 7-3-92, DIRECTIVE TO SUBMIT AN ADDENDUM.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884849

Document Type: Site Documents **Submitted:**
Document Date: 7/3/1992
Type: SOIL AND WATER INVESTIGATION WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORKPLAN FOR THE DEFINATION OF THE EXTENT OF GASOLINE CONTAMINATION OF SOIL AND GROUNDWATER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843871

Document Type: Site Documents **Submitted:**
Document Date: 5/28/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT WP
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888698

Document Type: Site Documents **Submitted:**
Document Date: 5/1/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT REPORT.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885238

Document Type: Site Documents **Submitted:**
Document Date: 3/6/1992
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: TANK CLOSURE REPORT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843858

Document Type: Site Documents **Submitted:**

Document Date: 2/28/1992
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: SOIL SAMPLES AQUIRED
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843859

Document Type: Site Documents **Submitted:**
Document Date: 1/9/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT WP (30)DAYS, AND PROVIDE TIMELINE.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5976210

Document Type: Site Documents **Submitted:**
Document Date: 1/6/1992
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5884846

Document Type: Site Documents **Submitted:**
Document Date: 11/22/1991
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT A WORK PLAN FOR SOIL CLEANUP.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886305

Document Type: Site Documents **Submitted:**
Document Date: 11/8/1991
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: DIRECTIVE TO SUBMIT WP.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886307

Document Type: Site Documents **Submitted:**
Document Date: 4/23/1991
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5888753

Document Type: Site Documents **Submitted:**
Document Date: 10/30/1990
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: STAFF LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247458

Document Type: Site Documents **Submitted:**
Document Date: 5/31/1990
Type: SITE ASSESSMENT REPORT
Submitted By: AMBER MINAMI (REGULATOR)
Title: REPORT PHASE I SITE ASSESSMENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843860

Document Type: Site Documents **Submitted:**
Document Date: 2/14/1990
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED, ADDENDUM
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5886304

Document Type: Site Documents **Submitted:**
Document Date: 1/11/1990
Type: PRELIMINARY SITE ASSESSMENT WORKPLAN - ADDENDUM
Submitted By: AMBER MINAMI (REGULATOR)
Title: ADDENDUM TO WORK PLAN PHASE I PRELIMINARY SITE ASSESSMENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843872

Document Type: Site Documents **Submitted:**
Document Date: 11/7/1989
Type: STAFF LETTER
Submitted By: AMBER MINAMI (REGULATOR)
Title: WP APPROVED FOR 10-20-89, SUBSURFACE INVESTIGATION WITH DIRECTIVE TO SUBMIT AN ADDENDUM.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885247

Document Type: Site Documents **Submitted:**
Document Date: 10/20/1989
Type: PRELIMINARY SITE ASSESSMENT WORKPLAN
Submitted By: AMBER MINAMI (REGULATOR)
Title: WORK PLAN PHASE I PRELIMINARY SITE ASSESSMENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&document_id=5843875

Document Type: Site Documents **Submitted:**
Document Date: 9/5/1989
Type: NOTICE OF RESPONSIBILITY
Submitted By: AMBER MINAMI (REGULATOR)
Title: I.E.L.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=5885236

Document Type: Site Documents **Submitted:**
Document Date: 8/1/1989
Type: UNAUTHORIZED RELEASE FORM
Submitted By: AMBER MINAMI (REGULATOR)
Title: URF
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0609900136&enforcement_id=6247453

23	4 of7	WNW	0.44 / 2,345.89	277.10 / 55	UNITED ROAD SERVICES 4549 INGRAM CREEK RD WESTLEY CA	RCRA TSD

Handler ID: CAC003015378
Generator Status: N
Recycler Activity?: NO
Recycler Activity Note: This facility has not been identified as a Recycler Facility from both the RCRA Handler and Biennial Report Modules.
Public Notes:

Contact DTSC for information.

Violation/Evaluation Summary

Note: NO RECORDS: As of Aug 2026, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer:	No	**Used Oil Transpor:**	No
Mixed Waste Gen:	No	**Used Oil Trans Fac:**	No
Transporter:	No	**Used Oil Processor:**	No
Transfer Facility:	No	**Used Oil Refiner:**	No
Recycler:	No	**Used Oil Burner:**	No
Onsite Burner Exem:	No	**Commercial TSD:**	No
Furnace Exemption:	No	**Recycl Nonstorage:**	No
Underground Injec:	No		
Used Oil Market Burner:	No		
Used Oil Spec Marketer:	No		

Additional Handler Summary Details

Source Type:	I	**NAIC 1:**	56299
Seq No:	1	**NAIC 2:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Non Notifier:
Receive Date: 20190516
Active Site: H----
Land Type:
In Handler Univ: Yes
In A Universe: Yes
Gen Status: N
Report Cycle:
Accessibility:
Region: 09
NAIC 3:
NAIC 4:
State: CA
Location Latitude: 37.538568
Location Longitude: -121.27023
Loc GIS Primary: No
Loc GIS Origin: AG
State District Owner:
State District:

Fed Waste Gen Owner: HQ
State Waste Generator Owner: CA
State Waste Generator: 2
Short Term Generator: No
Uni Waste: Yes
Universal Waste Dest Facility: Yes
Federal Universal Waste: No
As Federally Regulated Tsdf: ------
As Converter Tsdf: ------
As State Regulated Tsdf: ------
As State Regulated Handler: ---
Federal Indicator: ---
Hsm: N
Subpart K: ----
GPRA Permit: N
GPRA Renewal: N
Permit Renewal Wrkld: ------
Permwrk ID: ------
Perm Prog: ------
Pcwrkld: ------
Closwrkld: ------
GPRA Ca: No
Cawrkld: No
Subjca Tsd Discretion: No
NCAPS: No
EC Indicator: N
Ca725 Indicator: N
Ca750 Indicator: N
Operating Tsdf: ------
Full Enforcement: ------
Snc: No
Unaddressed Snc: No
Addressed Snc: No
Snc With Comp Sched: No
Fa Required: -----
Hhandler Last Change: 20190627
Recognized Trader Importer: No
Recognized Trader Exporter: No
Slab Importer: No
Slab Exporter: No
Manifest Broker: No
Subpart P: N
Contact Language: EN
Handler Name: UNITED ROAD SERVICES
Location Street No:
Location Street1: 4549 INGRAM CREEK RD
Location Street2:
Location City: WESTLEY
Location State: CA
Location Zip: 95387
Location County Code: CA099
Location County Name: STANISLAUS
Location Country: US
Contact Name: RYAN BRAZIL
Contact Street No:
Contact Street1: 10701 MIDDLEBELT RD
Contact Street2:
Contact City: ROMULUS
Contact State: MI

Contact Zip: 48174
Contact Country:
Contact Phone & Ext: 734-947-7900
Contact Fax:
Contact Email Address: RSONDUR@PATRIOTENVIRONMENTAL.COM
Contact Title:
Owner Name: UNITED ROAD
Owner Type: O
Owner Seq: 1
Operator Name: RYAN BRAZIL
Operator Type: O
Operator Seq: 2

Hazardous Waste Handler Details

Seq No: 1
Receive Date: 20190516
Handler Name: UNITED ROAD SERVICES
Fed Waste Generator: N
Generator Code Description: Not a Generator, Verified
Tsd Activity: Y
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: UNITED ROAD
Dt Became Current:
Dt Ended Current:
Phone: 734-947-7900
Source Type: Implementer
Street No:
Street1: 10701 MIDDLEBELT RD
Street2:
City: ROMULUS
State: MI
Country:
Zip: 48174

Owner/Operator Ind: Current Operator
Type: Other
Name: RYAN BRAZIL
Dt Became Current:
Dt Ended Current:
Phone: 734-947-7900
Source Type: Implementer
Street No:
Street1: 10701 MIDDLEBELT RD
Street2:
City: ROMULUS
State: MI
Country:
Zip: 48174

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23 | **5 of7** | **WNW** | **0.44 / 2,345.89** | **277.10 / 55** | **WESTLEY TIRE FIRE**
4549 INGRAM CREEK ROAD
WESTLEY CA | **SEMS**

EPA ID: CASFN0905570
Pgm Sys ID (Map): CASFN0905570
Latitude83 (Map):
Longitude83 (Map):
Primary Nm (Map): WESTLEY TIRE FIRE
Loc Addr (Map): 4549 INGRAM CREEK ROAD
Site Name: WESTLEY TIRE FIRE
Street Address: 4549 INGRAM CREEK ROAD
Street Address 2:
City: WESTLEY
County: STANISLAUS
PGM SYS ID (OD): CASFN0905570
Name (OD): WESTLEY TIRE FIRE
Loc Addr (OD): 4549 INGRAM CREEK ROAD
City (OD): WESTLEY
County (OD): STANISLAUS
Postal (OD): 95387-0302
County Name (Map): STANISLAUS
City Name (Map): WESTLEY
Postal Code (Map): 95387-0302
State: CA
Latitude: 37.549376
Longitude: -121.199104
Latitude83 (OD):
Longitude83 (OD):

Zip: 95387
Data Source: EPA Superfund Data and Reports Active Site Inventory (List 8R Active) (as of 29 Jun 2026); EPA FRS Interests Map - SEMS (as of 5 Jul 2026); CalOES EPA RCRA TSDF Map - SEMS (as of 5 Jul 2026)

Site Level Information

Site ID: 0905570
NPL: Not on the NPL
Federal Facility: No
FF Docket: No
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)
Superfund Alt Agmt: No
FIPS Code: 06099
Cong District:
Region: 09

Action Information

Site ID: 0905570
Operable Units: 00
Action Code: LV
Action Name: FF RV
SEQ: 1
Region: 09
FF Docket: No
NPL: No
Federal Facility: No
Start Actual: 6/14/1999 4:00:00 AM
Finish Actual: 11/3/1999 5:00:00 AM
Qual: C
Curr Action Lead: Fed Fac

GIS Information

Registry ID: 110000522541
Active Status: NOT ON THE NPL
Key Field: SEMSCASFN0905570
Interest Type: SUPERFUND (NON-NPL)
Fed Agency Name:
Fed Facility Code:
Federal Land Ind:
EPA Region Code: 09
Fips Code: 06099
Collect Mth Desc: ADDRESS MATCHING-HOUSE NUMBER
Ref Point Desc: ENTRANCE POINT OF A FACILITY OR STATION
Latitude83: 37.538481999999995
Longitude83: -121.270262
Fac URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110000522541
Program URL:
Pgm Report URL: no data yet
Create Dt: 2021-10-26 00:00:00 UTC
Update Dt: 2021-11-24 13:49:00 UTC
Last Reported Dt:
Pgm Sys Acrnm: SEMS
Accuracy Value: 50
HUC8 Code: 18040002
HUC 12:
Public Ind: Yes
Pgm Report: no data yet
Point X: -121.27026213999994
Point Y: 37.53848183000008

CalOES EPA RCRA TSDF Map - SEMS Details

Registry ID: 110000522541
Interest Type: SUPERFUND (NON-NPL)
Active Status: NOT ON THE NPL
Pgm Sys Acrnm: SEMS
Federal Agency Nm:
Federal Land Ind:
Fed Facility Cd:
Public Ind: Yes
FIPS Code: 06099
Longitude83: -121.270262
Latitude83: 37.538482
Collect Mth Desc: ADDRESS MATCHING-HOUSE NUMBER
Ref Point Desc: ENTRANCE POINT OF A FACILITY OR STATION
Pgm Report URL: no data yet
Program URL:
Fac URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110000522541
HUC8 Code: 18040002
HUC 12:
Accuracy Value: 50
EPA Region Code: 09
Key Field: SEMSCASFN0905570
Create Dt: 10/26/2021
Update Dt: 11/24/2021
Last Reported Dt:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
23	6 of7	WNW	0.44 / 2,345.89	277.10 / 55	WESTLEY TIRE PILE 4401-4549 INGRAM CK ROAD WESTLEY CA 95387	WMUD

Wmu ID No:	5C502016N01	**Npid:**	
Wds ID No:	5C502016N01	**Rptf:**	
Swis ID No:		**Sic1:**	4953
Reg ID No:		**Sic2:**	4953
Edit Date:		**Swat Anms:**	
Last Edit:		**Swat Fnms:**	
Region:	5S	**Atyp:**	PR
County:	50	**Anms:**	CAL-NEVA RANCH COMPANY, LLC
Wds:	TRUE	**Adep:**	
Msw:		**A Street:**	PO BOX 870
Superorder:		**A City:**	WESTLEY CA
Sc15:	TRUE	**A Zip:**	95387
Swat:	FALSE	**A County:**	EDWARD J. FILBIN
Tpca:	FALSE	**Afon:**	2097657018
Rcra:	FALSE	**Lnms:**	
Dod:		**Ldep:**	
Rbpo:	WWA	**L Street:**	
Openpub:		**L City:**	
Waste List:		**L State:**	
Tot Wmus:		**L Zip:**	
Secrange:		**L County:**	
Basemer:		**Lfon:**	
Fcnt:	EDWARD J. FILBIN	**Ttwq:**	
Fdep:		**Toxi:**	N
F State:	CA	**Cplx:**	
Ffon:	2097657018	**Wdrs:**	A
Ftyp:	OTH	**Wtp1:**	DCNWTRS
Tonnage:		**Wtp2:**	HCNWTRS
Fac Comment:			

WMU Details

Wmu ID:	5C502016N01-01	**G Monitor:**	
Edit Date:		**S Monitor:**	
Last Edit:		**V Monitor:**	
Wmu Type:		**G Back:**	
Wmu Name:	WESTLEY TIRE PILE	**S Back:**	
Wmustatus:		**V Back:**	
Wmu Size:		**G Nonback:**	
Listed:		**S Nonback:**	
Printed:		**V Nonback:**	
Msw:		**G Date:**	
Superorder:		**S Date:**	
Sc15:	TRUE	**V Date:**	
Swat:	FALSE	**Perm Test:**	
Tpca:	FALSE	**Gw Depth:**	
Rcra:	FALSE	**Precip:**	
Dod:		**Site Alt:**	
Old Class:		**Site Alta:**	
Old Waste:		**Line Alt:**	
Old First:		**Line Alta:**	
New Class:		**Lcrs Alt:**	
New Waste:		**Lcrs Alta:**	
New First:		**Composite:**	
Stat Date:		**Line Des:**	
Cap Year:		**Liner1:**	
Closeplan:		**Line1 Type:**	
Township:		**Liner2:**	
Fault Name:		**Line2 Type:**	
Fault Distance:		**Liner3:**	
Withquake:		**Line3 Type:**	
Type Op:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Gen Com1:
Gen Com2:
Gen Com3:
Gen Com4:
Formation:
Form Type:
Form Permit:
Form Com1:
Form Com2:
Form Com3:
Form Com4:
Liner Com:
Lcrs:
Lcrs Type:
Lcrs Des:
Cons Com1:
Cons Com2:
Cons Com3:
Cons Com4:

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23 | **7 of7** | **WNW** | **0.44 / 2,345.89** | **277.10 / 55** | **MODESTO ENERGY L.P.**
4549 INGRAM CREEK RD
WESTLEY CA 95387 | **WMUD**

Wmu ID No:	5C502034001	**Npid:**	
Wds ID No:	5C502034001	**Rptf:**	M
Swis ID No:		**Sic1:**	4911
Reg ID No:		**Sic2:**	
Edit Date:		**Swat Anms:**	
Last Edit:		**Swat Fnms:**	
Region:	5S	**Atyp:**	PR
County:	50	**Anms:**	UAE ENERGY OPERATIONS CORP.
Wds:	TRUE	**Adep:**	
Msw:	FALSE	**A Street:**	2420 CAMINO RAMON, STE. 229
Superorder:		**A City:**	SAN RAMON CA
Sc15:	TRUE	**A Zip:**	94583
Swat:	FALSE	**A County:**	STEVE ARTUS
Tpca:	FALSE	**Afon:**	5102441100
Rcra:	FALSE	**Lnms:**	
Dod:		**Ldep:**	
Rbpo:	WWA	**L Street:**	
Openpub:	FALSE	**L City:**	
Waste List:		**L State:**	
Tot Wmus:	1	**L Zip:**	
Secrange:		**L County:**	
Basemer:		**Lfon:**	
Fcnt:	ROGER DAY	**Ttwq:**	2
Fdep:		**Toxi:**	N
F State:	CA	**Cplx:**	B
Ffon:	2098943170	**Wdrs:**	A
Ftyp:	IND	**Wtp1:**	INONCON
Tonnage:	0	**Wtp2:**	
Fac Comment:			

WMU Details

Wmu ID:	5C502034001-01	**G Monitor:**	TRUE
Edit Date:	01-Jul-1997	**S Monitor:**	TRUE
Last Edit:	harmond.LAND.C	**V Monitor:**	TRUE
Wmu Type:	SURF. IMP.	**G Back:**	1
Wmu Name:	MODESTO TIRE INCINERATION FAC.	**S Back:**	2
Wmustatus:		**V Back:**	0
Wmu Size:	40	**G Nonback:**	4
Listed:		**S Nonback:**	3
Printed:		**V Nonback:**	0
Msw:	FALSE	**G Date:**	
Superorder:		**S Date:**	

Sc15:	TRUE	**V Date:**	
Swat:	FALSE	**Perm Test:**	
Tpca:	FALSE	**Gw Depth:**	238
Rcra:	FALSE	**Precip:**	10
Dod:	FALSE	**Site Alt:**	FALSE
Old Class:		**Site Alta:**	FALSE
Old Waste:		**Line Alt:**	FALSE
Old First:		**Line Alta:**	FALSE
New Class:	II	**Lcrs Alt:**	FALSE
New Waste:		**Lcrs Alta:**	FALSE
New First:		**Composite:**	
Stat Date:		**Line Des:**	FALSE
Cap Year:		**Liner1:**	TRUE
Closeplan:	FALSE	**Line1 Type:**	CLAY
Township:	4S,6E,28	**Liner2:**	TRUE
Fault Name:		**Line2 Type:**	SYNTHETIC
Fault Distance:		**Liner3:**	FALSE
Withquake:	FALSE	**Line3 Type:**	
Type Op:			
Gen Com1:	SPRAY AND EVAPORATION POND		
Gen Com2:	OXFORD TIRE RECYCLING OF N.CAL CONTAINS @ 4 MILLION TIRES		
Gen Com3:	GW USES: MUN, DOM, AGR		
Gen Com4:			
Formation:			
Form Type:			
Form Permit:			
Form Com1:	UNDERLAIN BY INTERBEDDED LAYERS OF POORLY CONSOLIDATED SANDSTONE,		
Form Com2:	SILTSTONE, AND CLAYSTONE		
Form Com3:	SURFACE WTR DRAINS TO MARTIN CREEK TO SAN JOAQUIN RIVER		
Form Com4:			
Liner Com:			
Lcrs:	TRUE		
Lcrs Type:	BLANKET TYPE WITH MAX PERMEABLILITY 1*10^-6		
Lcrs Des:	FALSE		
Cons Com1:	EVAP POND: 45MIL SYNTHETIC LINER		
Cons Com2:	SPRAY POND: 50MIL HDPE		
Cons Com3:			
Cons Com4:			

Unplottable Summary

Total: 39 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
CALSITES	WESTLEY TIRE FIRE	1/4 MILE WEST OF I-5	WESTLEY CA	95387	891190548
CDL		VISTA POINT (NORTH BOUND I-5)	CA		820116086
CDL		AT VISTA POINT, NORTH BOUND I-5, 3 MILES SOUTH OF PATTERSON	PATTERSON CA	95363	820117218
CDL		ON ROGERS RD, 200 YARDS SOUTH OF NEEDHAM RD	PATTERSON CA	95363	820120968
CHMIRS	CHP - Modesto	NB I-5 Westly Rest Area ***Control No*** **|** ***Notified Date:*** 16-1179 **|**	Unincorporated county area Stanislaus CA		836813571
CHMIRS	CHP	South bound Interstate 5, South of the Westley Rest Area ***Control No*** **|** ***Notified Date:*** 16-4113 **|**	Westley CA		848862111
CHMIRS	chp stockton	s/b I-5 1 1/2 south of wesley exit ***Control No*** **|** ***Notified Date:*** 9/22/1993	wesley CA	?????	860463383
CHMIRS	chp-merced	NB I-5 approx 3.45 mi. N of Sperry 1/4 N. of mile post marker 19 ***Control No*** **|** ***Notified Date:*** 9/6/1995	patterson CA		860464071
CHMIRS	chp stockton dispatch	s/b i-5 noth of ingram creek ***Control No*** **|** ***Notified Date:*** 10/1/1993	near wesley CA		860464221
CHMIRS	Fed Ex Freight	I-5 Northbound Exit 440 ***Control No*** **|** ***Notified Date:*** 18-0135 **|** 1/8/2018 2:08:00 PM	Westley CA		867283596
CHMIRS	CHP- Modesto	Noth I-5 on the Sperry Off Ramp	Patterson CA	95363	877614593

		Control No **|** ***Notified Date:*** 19-3366 | 5/24/2019 7:30:00 PM			
CHMIRS	Modesto CHP	South Bound I-5 at Howard Rd ***Control No*** **|** ***Notified Date:*** 20-6154 | 11/4/2020 1:11:00 PM	Westley CA		890074902
CHMIRS	CHP- Modesto	S 5 just South of Howard Rd ***Control No*** **|** ***Notified Date:*** 22-3563 | 6/23/2022 12:10:00 PM	Westley CA		902311830
CHMIRS	Hwy Patrol Merced	N I-5, north of Howard (Wesley Exit) ***Control No*** **|** ***Notified Date:*** 15-7178 |	Stanislaus CA		836812237
CHMIRS	CHP Merced Comm.	SB I-5 just north of the Westley Rest Area ***Control No*** **|** ***Notified Date:*** 7/21/200405:54:45 AM	Westley CA		821803304
CHMIRS	The Spill Center	Westley rest area, I-5 NB ***Control No*** **|** ***Notified Date:*** 3/22/199807:17:18 AM	Westley CA	94026	821810258
CHMIRS	CHP Modesto	SB I5 SO Westley Rest Stop ***Control No*** **|** ***Notified Date:*** 11-2737 |	Westley CA		821851448
CHMIRS	ERTS	SB I5 at Exit 441 ***Control No*** **|** ***Notified Date:*** 14-2450 |	Westley CA		821853707
CHMIRS	Hazmat One	Northbound I-5, Westley Rest Stop exit ramp ***Control No*** **|** ***Notified Date:*** 12-0938 |	Westley CA		821860710
EMISSIONS	AMERICAN TOWERS LLC	8336 I-5 WESTLEY	PATTERSON CA	95363	931051261
ERNS		I 5 SOUTHBOUND EXIT 441 ***NRC Report No:*** 1081179	WESTLEY CA		819868245
FINDS/FRS	KLM PIPELINE REPAIR MP108.64	I-5 ***Registry ID:*** 110064955516	PATTERSON CA		840205429
HAZ GEN	PG&E T301 14 L002 MP 118.10 121.98 NEW WESTLEY TOWN REG	APPROX 400 FT S OF HOWARD RD	PATTERSON CA	95363	899875137

HAZ GEN	CALTRANS D-10/EA 10-1E1204	I-5 (NB&SB)	PATTERSON CA	95363	900069683
HAZ GEN	TARGET EXPRESS INC/LEE JENNINGS ENTERP	NOURTH BOUND I5 NR WESTLEY	WESTLEY CA	000000000	900207457
HAZ GEN	PACIFIC GAS & ELECTRIC, NEW WESTLEY SUBSTATION	ON HOWARD RD 4/10 OF A MI S OF EXIT	WESTLEY CA	953870000	900271793
HAZ GEN	FEDEX FREIGHT	I-5 NORTHBOUND EXIT 440	WESTLEY CA	95363	925023754
HAZNET	HALDOR TOPSOE	I-5, 1 MILE NORTH OF WESLEY	STANISLAUS CA	000000000	826807307
HAZNET	MARTENTRANSPORTATION LTD	INTERSTATE 5	WESTLEY CA	95387	858347335
HIST CHMIRS	S. SIMON FREIGHT	I-5 NORTHBOUND .5 MILES SOUTHWEST RESTSTOP	UNINC CA		826008959
HIST CHMIRS	BROWNLINE INC	I-5 1/4 MILE NORTH OF WESTLY EXIT	WESTLEY CA		826024497
HIST CHMIRS		S/B I-5 1056' S/PETE MILLER RD	UNINC CA		826015083
HIST CHMIRS	BURLINGTON MOTOR CARRIERS	S/B I-5 AT WESLEY REST AREA	UNINC CA		826013679
HIST CHMIRS	W. H. TANK LINES	I-5 S/B AT WESTLEY REST AREA OFF	WESTLEY CA		826014730
HIST CHMIRS		I-5 AT HYIYO	UNINC CA		826021080
HIST CHMIRS	KOPYMAN	S/B I-5 20' S/STANISLAUS CO.	UNINC CA		826010324
HIST CHMIRS	INTER-CAL	I-5 1 MILE NORTH OF WESTLEY EXIT	WESTLEY CA		826013213

HIST MANIFEST		WESTLEY RD @ I-5	WESTLEY CA	953500000	827483434
WMUD	FILBIN RANCH DISPOSAL SITE	INGRAM CREEK ROAD	WESTLEY CA	95387	895463856

Unplottable Report

Site: ***WESTLEY TIRE FIRE***
1/4 MILE WEST OF I-5 WESTLEY CA 95387

CALSITES

ID No:	50490014	***Assembly:***	17
Status Date:	09/22/1999	***Senate:***	12
NPL:	N	***Region:***	1
Tier:		***Region Name:***	SACRAMENTO
Fund:	C	***County Co:***	50
Access :	C	***Facility County:***	STANISLAUS
Access Code:	CONTROLLED	***Lat Deg:***	0
Cortese:		***Lat Min:***	0
Hrscore:		***Lat Sec:***	0
Hrsdate:		***Lat Dir:***	
Groundwater Contam:		***Long Deg:***	0
GW Code:	NOT REPORTED	***Long Min:***	0
No Sources:	0	***Long Sec:***	0
RWQCB Name:	CENTRAL VALLEY	***Long Dir:***	
Branch Name:	CENTRAL CALIFORNIA	***LImethod:***	
Staff:	EWALLBER	***LIdesc:***	
Senior:			
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE		
Type Name:	RESPONSIBLE PARTY		
Lead Name:	INTEGRATED WASTE MANAGEMENT BOARD		
SIC Name:	ELECTRIC, GAS & SANITARY SERVICES		
Filename:	WESTLEY TIRE FIRE		
Comments:			

ENFFU - DTSC referred the case to the Attorney General for cost recovery of its emergency response and personnel costs. PRP - DTSC conducted an evaluation of the respondents to the Regional Water Quality Control Board Corrective Action Order to determine their status as Potential Responsible Parties under CERCLA and state law. ORDER/I/SE - DTSC made an Imminent and Substantial Endangement Determination regarding the Westley Tire Fire site in anticipation of the expenditure of state funds to conduct an initial investigation and removal action prior to the next rainy season. A lightning strike at the tire storage area ignited the illegally stored tires on the Filbin property. DTSC Emergency Response personnel provided initial funding for waste classification, storage and disposal. The US EPA Emergency Response Unit assumed responsibility for the site and funded fire fighting efforts. When the fire was extinguished, the California Intergrated Waste Management Board (CIWMB) assumed lead agency status under the incident command system. DTSC assummed support agency status under the incident command system. RAW - Removal Action Workplan to remove pyrolytic oil contamin- ated soil from ponds 1, 3, & 4. RA - Removed 10,000 cubic yards of pyrolytic oil contaminated soil and sludge from ponds 3 and 4.

Background:

The Site is located at the Filbin Tire Facility located in the vicinity of 4401 & 4549 Ingram Creek Road in Westley, Stanislaus County, California. The property is identified by Assessor's parcel number(s) APN 16-16-09, 16-18-08, 16-18-04, 16-35-04 and 16-35-05. The Site is in a rural area of Stanislaus County, approximately 1/4 mile west of interstate 5, and includes the waste-to-energy facility known as the Modesto Energy Limited Partnership (MELP). Agricultural and livestock grazing are the primary land uses in the area, and there does not appear to be developmental pressures in this community. Site access is controlled by barbed wire fencing, entry control point security and Site proximity from the entrance point, approximately 2 miles. The MELP waste tire to energy facility lies on the north- east portion of the Site and is inactive. Waste from the combustion of tires burned in a fire that was caused by a lightning strike include soot, ash, tire debris, and pyrolitic oil. These wastes contain numerous constituents. An aqueous sample indicated the presence of acetone at 9,800 ppb, benzene at 1,000 ppb, toluene at 970 ppb, phenol at 19,000 ppb, 2 methyphenol at 6,900 ppb, 3,4- methylphenol 6,300 ppb, 2, 4 Dimethylphenol at 2,000 ppb, lead at 14ppb, and zinc at 55,000 ppb. All these values exceed U.S. Environmental Protection Agency Preliminary Remediation Goals. In addition petroleum hydrocarbons were found at 20,000 ppb. Current file material and discussions with other state agencies indicate that no definitive prior investigations of this Site have been conducted. Vegetation is naturally sparse around the Site, consisting of prairie grasses, and the Site does not appear to provide habitat for fauna. The site is located in the foothills of the Coastal Range and the topography of the Site is steep canyons. The Site is located within approximately 1/2 mile of the California Aqueduct (the nearest surface water body) and is not subject to any unusual meteorological conditions. The aqueduct is east of the Site and supports some edible fish species and there are no other surface water bodies near the site. Site Drainage is towards the east into large open fields that allow run-off to evaporate and percolate. The Site lies in the northeast portion of the San Joaquin Valley. Several surface impoundments are located in various locations at the Site. The eastern most surface impoundment (pond 1) is a fire fighting water containment that was installed prior to the tire fire. Immediately west of pond 1 is a surface impound- ment (pond 2) that was constructed by EPA subsequent to the fire being extinguished. Immediately southwest of pond 2 are two surface impoundments (ponds 3 and 4) that were constructed during the fire fighting efforts for controlling the pyrolytec oil and fire fighting water. Immediately east of the MELP facility is a lined wastewater holding containment (MELP Pond) that MELP uses for evaporation and wastewater holding. Partially burned and buried tires are located in the canyon that is the entrance to the facility. Tires are suspected to be buried to a depth of approximately fifty (50) feet. Several large piles of partially burned tires, ash and soil are located throughout the site. Several piles of oversized tires and tires that can be burned in the MELP facility are being sheared, shredded and removed, or burned at the MELP facility under the direction of the California Integrated Waste Management

Board (CIWMB). The CIWMB rescinded the tire storage permit for the tire pile on the Filbin property prior to the start of the fire. The adjacent MELP facility tire storage area is temportary in nature and does not require a permit from the CIWMB. The CIWMB issued orders for the removal of the Filbin tire pile. The Regional Water Quality Control Board has also issued a Cleanup and Abatement order for the site. These two agencies are acting as lead agencies for the cleanup of the site with DTSC providing support for the investiga tive and remedial activities.

Site:
VISTA POINT (NORTH BOUND I-5) CA CDL

Clue: 2003-01-181
Date: 1/29/2003
County: STANISLAUS
Lab Type: A
Lab Type Desc: Abandoned Drug Lab Waste - location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.

Site:
AT VISTA POINT, NORTH BOUND I-5, 3 MILES SOUTH OF PATTERSON PATTERSON CA 95363 CDL

Clue: 2002-09-078
Date: 9/20/2002
County: STANISLAUS
Lab Type: A
Lab Type Desc: Abandoned Drug Lab Waste - location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.

Site:
ON ROGERS RD, 200 YARDS SOUTH OF NEEDHAM RD PATTERSON CA 95363 CDL

Clue: 2009-05-014
Date: 5/19/2009
County: STANISLAUS
Lab Type: A
Lab Type Desc: Abandoned Drug Lab Waste - location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.

Site: ***CHP - Modesto***
NB I-5 Westly Rest Area Unincorporated county area Stanislaus CA CHMIRS

Control No: 16-1179 ***Notified Date:***
Year: 2016 ***Notified Date Time:***
County: Stanislaus County
URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/474f562dfd3a74f788257f64000504db?OpenDocument

Spill Report View

Water: ***Creation Date:*** 02/24/2016 05:22 PM
Document Title: Cal OES-Update
Spill Site:
Type: PETROLEUM

OES Hazardous Materials Spill Update

Occurrence Date: 02/24/2016 ***Prs Notif Upd Nm:***
Occurrence Time: 1616 ***Phone No:***
Notify Date: 02/24/2016 ***Ext:***
Notify Time: 1654 ***Pag Cell:***
NRC: ***Fax Notific List 2:***
RWQCB Unit: 5B ***Admin Agency 2:***
Unknown Header: SAN JOAQUIN VALLEY UNIFIED APCD ***Add Admin Agency 2:***
OP Area: Stanislaus County ***Secondary Agency 2:***

RWQCB Unit 2: ***Dog Unit 2:***
Add Counties 2:
1 Substance: Diesel Fuel
1 Qty Amount: 60
1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No
1 Ves >= 300 Tons: No
2 Substance:
2 Qty Amount:
2 Measure:
2 Type:
2 Other:
2 Pipeline: No
2 Ves >= 300 Tons: No
3 Substance:
3 Qty Amount:
3 Measure:
3 Type:
3 Other:
3 Pipeline: No
3 Ves >= 300 Tons: No
Pers Reporting Spill Agency:
Pers Notifying CA OES Agency: CHP - Modesto
Fax Notifi List: AA/CUPA, DFG-OSPR, DTSC, RWQCB, US EPA, USFWS
Other Notified: Stanislaus County EH
Confirmation Request:
Administering Agency: Stanislaus County Environmental Resources
Secondary Agency:
Additional Admin Agency:
Additional Counties:
Doc URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/6abc18f0bea5722688257f6400079694?OpenDocument
Update Known Impact:
Update Cause:
Update Description:

Situation Update:

Caller stated that Patriot Enviromental will be conducting clean-up. Responsible Party: Ryan McGee, Marten Transport, 800-471-3134, 129 Martin Street, Mondovi, Wisconsin, 54755.

Original Description:

Caller stated that a big rig hit some debris while driving which punctured his saddle tank causing the release of 60 Gal(s) of diesel onto gravel and concrete, release is secured and is no longer releasing, no waterways impacted. Clean-up is being conducted by Stanislaus County Fire Dept.

OES Hazardous Materials Update Quantities

Amount: < 30
Measure: Gal(s)

Spill Report View

Water: ***Creation Date:*** 02/24/2016 04:54 PM
Document Title: SPILL Report
Spill Site: Road,Service Station
Type: PETROLEUM

Hazardous Materials Spill Report

Date : 02/24/2016 ***Name:***
Time: 1654 ***Phone:***
Incident Date: 02/24/2016 ***Ext:***
Incident Time: 1616 ***Pag Cell:***
Control Cal OES: 16-1179 ***Prs Name:***
Control NRC: ***Prs Phone:***

Water Involved:	No	***Prs Ext:***	
Drink Wtr Impact:	No	***Prs Pag Cell:***	
Detail for Other:		***Incident Desc:***	
UPRR Rim No:		***Notification Info:***	
DOG Unit:		***Notification List:***	
RWQCB Unit:	5B		
Contained:	Yes		
Waterway:			
Received By:			
Cleanup By:	Fire Dept.		
Incident Location:	NB I-5 Westly Rest Area		
Additional County:			
1 Substance:	Diesel Fuel		
1 Qty:	=		
1 Amount :	60		
1 Measure:	Gal(s)		
1 Type:	PETROLEUM		
1 Other:			
1 Pipeline:	No		
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty:	=		
2 Amount:			
2 Measure:			
2 Type:			
2 Other:			
2 Pipeline:	No		
2 Ves >= 300 Tns:	No		
3 Substance:			
3 Qty:	=		
3 Amount:			
3 Measure:			
3 Type:			
3 Other:			
3 Pipeline:	No		
3 Ves >= 300 Tons:	No		
Injuries:	No		
Fatality:	No		
Evacuation:	No		
Known Impact:	None		
Agency:	CHP - Modesto		
PRS Agency:			
Sec Agency:			
Admin Agency:	Stanislaus County Environmental Resources		
Admin Agency 2:			
On Scene:	CHP, Fire Dept.		
Other on Scene:			
Other Notified:	Stanislaus County EH		
Header Unknown:	SAN JOAQUIN VALLEY UNIFIED APCD		
Site:	Road, Service Station		
Reported Cause:	Other Description for Other : Vehicle Incident		
R R Crssing < 50 Ft:			
Description:	Caller stated that a big rig hit some debris while driving which punctured his saddle tank causing the release of 60 Gal(s) of diesel onto gravel and concrete, release is secured and is no longer releasing, no waterways impacted. Clean-up is being conducted by Stanislaus County Fire Dept.		

Site: ***CHP***
South bound Interstate 5, South of the Westley Rest Area Westley CA CHMIRS

Control No:	16-4113	***Notified Date:***	
Year:	2016	***Notified Date Time:***	
County:	Stanislaus County		
URL:	https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/7900c03e549da67288257fe90037e3bd?OpenDocument		

Spill Report View

Water:		***Creation Date:***	07/07/2016 03:10 AM

Document Title: SPILL Report
Spill Site: Road
Type: PETROLEUM

Hazardous Materials Spill Report

Date :	07/07/2016	***Name:***	
Time:	0310	***Phone:***	
Incident Date:	07/07/2016	***Ext:***	
Incident Time:	0225	***Pag Cell:***	
Control Cal OES:	16-4113	***Prs Name:***	
Control NRC:		***Prs Phone:***	
Water Involved:	No	***Prs Ext:***	
Drink Wtr Impact:	No	***Prs Pag Cell:***	
Detail for Other:		***Incident Desc:***	
UPRR Rim No:		***Notification Info:***	
DOG Unit:		***Notification List:***	
RWQCB Unit:	5B		

Contained: No
Waterway:
Received By:
Cleanup By: Unknown
Incident Location: South bound Interstate 5, South of the Westley Rest Area
Additional County:
1 Substance: Diesel Fuel
1 Qty: =
1 Amount : 100
1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No
1 Ves >= 300 Tons: No
2 Substance:
2 Qty: =
2 Amount:
2 Measure:
2 Type:
2 Other:
2 Pipeline: No
2 Ves >= 300 Tns: No
3 Substance:
3 Qty: =
3 Amount:
3 Measure:
3 Type:
3 Other:
3 Pipeline: No
3 Ves >= 300 Tons: No
Injuries: Yes
Injuries #: 1
Fatality: No
Evacuation: No
Known Impact: None
Agency: CHP
PRS Agency:
Sec Agency:
Admin Agency:
Admin Agency 2:
On Scene: CHP, Fire Dept.
Other on Scene:
Other Notified: CalTrans
Header Unknown: SAN JOAQUIN VALLEY UNIFIED APCD
Site: Road
Reported Cause: Collision
R R Crssing < 50 Ft:
Description: RP States: Approx. 100 gallons of fuel was released on to the asphalt and right hand shoulder of South bound Interstate 5 due to a semi-truck roll-over. The release is coming from the semi-trucks side-saddle tank. The spill is not contained at the time of this report. No road closures. No waterways impacted. One minor injury is reported.

Site: ***chp stockton***
s/b I-5 1 1/2 south of wesley exit wesley CA ?????

CHMIRS

Control No:		**Notified Date:**	9/22/1993
Year:	1993	**Notified Date Time:**	10:21:15 PM
County:	STANISLAUS		
URL:			

California Hazardous Material Incident Report System (as of 1993 to 1996)

Contained:	NO	**Incident Date:**	2103/22sep
Substance:	diesel	**Injuries?:**	NO
Type:	PETROLEUM	**Fatals?:**	NO
Qty:		**Evacs?:**	NO
Other:		**Cleanup:**	UNKNOWN
Measure:		**Site:**	RD
Amount:	120 gallons	**City:**	wesley
Water:	YES	**County:**	STANISLAUS
Water Way:		**ZIP:**	?????
Location:	s/b I-5 1 1/2 south of wesley exit		
Description:	big ruptured fuel tank and spilled diesel 200-300 feet of road.		

Site: ***chp-merced***
NB I-5 approx 3.45 mi. N of Sperry 1/4 N. of mile post marker 19 patterson CA

CHMIRS

Control No:		**Notified Date:**	9/6/1995
Year:	1995	**Notified Date Time:**	08:16:17 PM
County:	STANISLAUS		
URL:			

California Hazardous Material Incident Report System (as of 1993 to 1996)

Contained:	NO	**Incident Date:**	6/1837 Sept 95
Substance:	diesel	**Injuries?:**	NO
Type:	PETROLEUM	**Fatals?:**	NO
Qty:		**Evacs?:**	NO
Other:		**Cleanup:**	caltrans
Measure:		**Site:**	OTHER
Amount:	140 gals.	**City:**	patterson
Water:	YES	**County:**	STANISLAUS
Water Way:		**ZIP:**	
Location:	NB I-5 approx 3.45 mi. N of Sperry 1/4 N. of mile post marker 19		
Description:	truck jackknifed entering the center divider which ruptured the fuel tank. all the diesel was contained within the center divider.		

Site: ***chp stockton dispatch***
s/b i-5 noth of ingram creek near wesley CA

CHMIRS

Control No:		**Notified Date:**	10/1/1993
Year:	1993	**Notified Date Time:**	01:54:51 AM
County:	STANISLAUS		
URL:			

California Hazardous Material Incident Report System (as of 1993 to 1996)

Contained:	NO	**Incident Date:**	2358/30 sep
Substance:	diesel	**Injuries?:**	NO
Type:	PETROLEUM	**Fatals?:**	NO
Qty:		**Evacs?:**	NO
Other:		**Cleanup:**	d.o.t.
Measure:		**Site:**	S/S
Amount:	30-40 gallons	**City:**	near wesley
Water:	NO	**County:**	STANISLAUS
Water Way:	spill to roadway and shoulder only	**ZIP:**	
Location:	s/b i-5 noth of ingram creek		
Description:	traffic accident between big rig and motor home caused the fuel line to break.		

Site: ***Fed Ex Freight***
I-5 Northbound Exit 440 Westley CA

CHMIRS

Control No:	18-0135	***Notified Date:***	1/8/2018 2:08:00 PM
Year:	2018	***Notified Date Time:***	
County:	Stanislaus County		
URL:			

California Hazardous Material Incident Report System (2018)

Contained:	Yes	***Incident Date:***	1/8/2018
1 Substance:	Diesel Fuel	***Incident Time:***	1000
1 Quantity:	40	***Spill Site:***	Road
1 Measure:	Gal(s)	***Injuries?:***	No
1 Type:	PETROLEUM	***No of Injuries:***	
1 Pipeline:	No	***Fatals?:***	No
1 Vessel >= 300 Tons:	No	***No of Fatals:***	
1 Other:		***Evacs?:***	No
2 Substance:		***No of Evacs:***	
2 Quantity:		***Cleanup:***	Contractor
2 Measure:		***Site:***	
2 Type:		***Cause:***	Collision
2 Other:		***Cause Other:***	
2 Pipeline:	No	***Drnkng Wtr Impacted:***	No
2 Ves >= 300 Tons:	No	***Known Impact:***	None
3 Substance:		***Water:***	No
3 Quantity:		***Water Way:***	
3 Measure:		***City:***	Westley
3 Type:		***County:***	Stanislaus County
3 Other:		***Zip:***	
3 Pipeline:	No	***DOG No:***	
3 Vessel >= 300 Tons:	No		

Admin Agency:	Stanislaus County Environmental Resources
Notification Area:	AA/CUPA,DTSC,RWQCB,US EPA,USFWS
Location:	I-5 Northbound Exit 440
Description:	Per the caller a truck hit some debris and noticed a leak.

Spill Report View

Water:		***Creation Date:***	01/08/2018 02:08 PM
Document Title:	SPILL Report		
Spill Site:	Road		
Type:	PETROLEUM		

Hazardous Materials Spill Report

Date :	01/08/2018	***Name:***	
Time:	1408	***Phone:***	
Incident Date:	01/08/2018	***Ext:***	
Incident Time:	1000	***Pag Cell:***	
Control Cal OES:	18-0135	***Prs Name:***	
Control NRC:		***Prs Phone:***	
Water Involved:	No	***Prs Ext:***	
Drink Wtr Impact:	No	***Prs Pag Cell:***	
Detail for Other:		***Incident Desc:***	
UPRR Rim No:		***Notification Info:***	
DOG Unit:		***Notification List:***	
RWQCB Unit:	5B		

Contained:	Yes
Waterway:	
Received By:	
Cleanup By:	Contractor
Incident Location:	I-5 Northbound Exit 440
Additional County:	
1 Substance:	Diesel Fuel
1 Qty:	=
1 Amount :	40
1 Measure:	Gal(s)

1 Type:	PETROLEUM
1 Other:	
1 Pipeline:	No
1 Ves >= 300 Tons:	No
2 Substance:	
2 Qty:	=
2 Amount:	
2 Measure:	
2 Type:	
2 Other:	
2 Pipeline:	No
2 Ves >= 300 Tns:	No
3 Substance:	
3 Qty:	=
3 Amount:	
3 Measure:	
3 Type:	
3 Other:	
3 Pipeline:	No
3 Ves >= 300 Tons:	No
Injuries:	No
Fatality:	No
Evacuation:	No
Known Impact:	None
Agency:	Fed Ex Freight
PRS Agency:	
Sec Agency:	
Admin Agency:	Stanislaus County Environmental Resources
Admin Agency 2:	
On Scene:	
Other on Scene:	
Other Notified:	
Header Unknown:	SAN JOAQUIN VALLEY UNIFIED APCD
Site:	Road
Reported Cause:	Collision
R R Crssing < 50 Ft:	
Description:	Per the caller a truck hit some debris and noticed a leak.

Site: ***CHP- Modesto***
Noth I-5 on the Sperry Off Ramp Patterson CA 95363

CHMIRS

Control No:	19-3366	***Notified Date:***	5/24/2019 7:30:00 PM
Year:	2019	***Notified Date Time:***	
County:	Stanislaus County		
URL:			

Spill Report View

Water:		***Creation Date:***	05/24/2019 07:30 PM
Document Title:	SPILL Report		
Spill Site:	Road		
Type:	PETROLEUM		

Hazardous Materials Spill Report

Date :	05/24/2019	***Name:***	
Time:	1930	***Phone:***	
Incident Date:	05/24/2019	***Ext:***	
Incident Time:	1755	***Pag Cell:***	
Control Cal OES:	19-3366	***Prs Name:***	
Control NRC:		***Prs Phone:***	
Water Involved:	No	***Prs Ext:***	
Drink Wtr Impact:	No	***Prs Pag Cell:***	
Detail for Other:		***Incident Desc:***	
UPRR Rim No:		***Notification Info:***	
DOG Unit:		***Notification List:***	
RWQCB Unit:	5B		
Contained:	Contained		

Waterway:
Received By:
Cleanup By: CalTrans
Incident Location: Noth I-5 on the Sperry Off Ramp
Additional County:
1 Substance: Oil
1 Qty: =
1 Amount : 30
1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No
1 Ves >= 300 Tons: No
2 Substance:
2 Qty: =
2 Amount:
2 Measure:
2 Type:
2 Other:
2 Pipeline: No
2 Ves >= 300 Tns: No
3 Substance:
3 Qty: =
3 Amount:
3 Measure:
3 Type:
3 Other:
3 Pipeline: No
3 Ves >= 300 Tons: No
Injuries: No
Fatality: No
Evacuation: No
Known Impact: None
Agency: CHP- Modesto
PRS Agency:
Sec Agency:
Admin Agency: Stanislaus County Environmental Resources
Admin Agency 2:
On Scene: Cal Trans, CHP
Other on Scene:
Other Notified:
Header Unknown: SAN JOAQUIN VALLEY UNIFIED APCD
Site: Road
Reported Cause: Unknown
R R Crssing < 50 Ft:
Description: As per caller: oil spill was discovered, likely from "Big Rig" but unknown origin. 20 gallons on the pavement and 10 gallons on the dirt.

Spill Report View

Water:
Creation Date: 05/25/2019 09:33 PM
Document Title: Cal OES-Update
Spill Site:
Type: PETROLEUM

OES Hazardous Materials Spill Update

Occurrence Date: 05/24/2019
Occurrence Time: 1755
Notify Date: 05/24/2019
Notify Time: 1930
NRC:
RWQCB Unit: 5B
Unknown Header: SAN JOAQUIN VALLEY UNIFIED APCD
OP Area: Stanislaus County
RWQCB Unit 2:
Add Counties 2:
1 Substance: Oil
1 Qty Amount: 30
Prs Notif Upd Nm:
Phone No:
Ext:
Pag Cell:
Fax Notific List 2:
Admin Agency 2:
Add Admin Agency 2:
Secondary Agency 2:
Dog Unit 2:

1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No
1 Ves >= 300 Tons: No
2 Substance:
2 Qty Amount:
2 Measure:
2 Type:
2 Other:
2 Pipeline: No
2 Ves >= 300 Tons: No
3 Substance:
3 Qty Amount:
3 Measure:
3 Type:
3 Other:
3 Pipeline: No
3 Ves >= 300 Tons: No
Pers Reporting Spill Agency:
Pers Notifying CA OES Agency: CHP- Modesto
Fax Notifi List: AA/CUPA, DTSC, RWQCB, US EPA, USFWS, CALTRANS, Co/WP
Other Notified:
Confirmation Request:
Administering Agency: Stanislaus County Environmental Resources
Secondary Agency:
Additional Admin Agency:
Additional Counties:
Doc URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/adb58e37fe77f67388258406001907fb?OpenDocument
Update Known Impact:
Update Cause:
Update Description:

Situation Update:

*** OIL SUBSTANCE WAS FOUND TO BE VEGETABLE BASED, NOT PETROLEUM BASED. No other changes to note. ***

Original Description:

As per caller: oil spill was discovered, likely from "Big Rig" but unknown origin. 20 gallons on the pavement and 10 gallons on the dirt.

OES Hazardous Materials Update Quantities

Amount:
Measure: Gal(s)

California Hazardous Material Incident Report System (2019)

Owner OID Key: 5/24/2019
Time : 1755
Spill Site: Road
Site:
Contained: Contained
Water : No
Water Way:
Injuries Yes/No: No
Injuries No:
Fatals Yes/No: No
Fatals No:
Evacs Yes/No: No
Evacs No:
Cleanup: CalTrans
Cause: Unknown
A1 Substance: Oil
A1 Other:
A1 Quantity: 30
A1 Measure: Gal(s)
A1 Type: PETROLEUM
Dog No:
A2 Substance:
A2 Quantity:
A2 Measure:
A2 Type:
A2 Other:
A2 Pipeline: No
A2 Vessel 300 Tons: No
A3 Substance:
A3 Quantity:
A3 Measure:
A3 Type:
A3 Other:
A3 Pipeline: No
A3 Vessel 300 Tons: No
Cause Other:
Drink Water Impact: No
Known Impact: None
City: Patterson
County: Stanislaus County

A1 Pipeline:	No	***ZIP:***	95363
A1 Vessel 300 Tons:	No		
Admin Agency:	Stanislaus County Environmental Resources		
Location:	Noth I-5 on the Sperry Off Ramp		
Description:	As per caller: oil spill was discovered, likely from "Big Rig" but unknown origin. 20 gallons on the pavement and 10 gallons on the dirt.		
Notification Area:	AA/CUPA,DTSC,RWQCB,US EPA,USFWS,CALTRANS,Co/WP		

Site: ***Modesto CHP***
South Bound I-5 at Howard Rd Westley CA

CHMIRS

Control No:	20-6154	***Notified Date:***	11/4/2020 1:11:00 PM
Year:	2020	***Notified Date Time:***	
County:	Stanislaus County		
URL:			

Spill Report View

Water:		***Creation Date:***	11/04/2020 01:11 PM
Document Title:	SPILL Report		
Spill Site:	Road		
Type:	PETROLEUM		

Hazardous Materials Spill Report

Date :	11/04/2020	***Name:***	
Time:	1311	***Phone:***	
Incident Date:	11/04/2020	***Ext:***	
Incident Time:	0935	***Pag Cell:***	
Control Cal OES:	20-6154	***Prs Name:***	
Control NRC:		***Prs Phone:***	
Water Involved:	Yes	***Prs Ext:***	
Drink Wtr Impact:	Yes	***Prs Pag Cell:***	
Detail for Other:		***Incident Desc:***	
UPRR Rim No:		***Notification Info:***	
DOG Unit:		***Notification List:***	
RWQCB Unit:	5B		
Contained:	Stopped, Contained		
Waterway:	Ingram Creek		
Received By:			
Cleanup By:	CalTrans		
Incident Location:	South Bound I-5 at Howard Rd		
Additional County:			
1 Substance:	Petroleum products		
1 Qty:	<		
1 Amount :	6		
1 Measure:	Gal(s)		
1 Type:	PETROLEUM		
1 Other:			
1 Pipeline:	No		
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty:	=		
2 Amount:			
2 Measure:			
2 Type:			
2 Other:			
2 Pipeline:	No		
2 Ves >= 300 Tns:	No		
3 Substance:			
3 Qty:	=		
3 Amount:			
3 Measure:			
3 Type:			
3 Other:			
3 Pipeline:	No		
3 Ves >= 300 Tons:	No		
Injuries:	Yes		

	Injuries #: 1
Fatality:	No
Evacuation:	No
Known Impact:	Signs Posted
Agency:	Modesto CHP
PRS Agency:	
Sec Agency:	
Admin Agency:	Stanislaus County Environmental Resources
Admin Agency 2:	
On Scene:	Cal Trans, CHP, Fire Dept.
Other on Scene:	
Other Notified:	
Header Unknown:	SAN JOAQUIN VALLEY UNIFIED APCD
Site:	Road
Reported Cause:	Collision
R R Crssing < 50 Ft:	
Description:	Caller states big rig when down embankment and over turned resulting in the release of approx 6 gallons of petroleum products into Ingram Creek. Caltrans will handle the cleanup.

California Hazardous Material Incident Report System (2020)

Incident Date:	11/4/2020	***Dog No:***	
Time:	935	***A2 Substance:***	
Spill Site:	Road	***A2 Quantity:***	
Site:	Ingram Creek	***A2 Measure:***	
Contained:	Stopped,Contained	***A2 Type:***	
Water:	Yes	***A2 Other:***	
Water Way:	Ingram Creek	***A2 Pipeline:***	No
Injuries Yes/No:	Yes	***A2 Vessel 300 Tons:***	No
Injuries No:	1	***A3 Substance:***	
Fatals Yes/No:	No	***A3 Quantity:***	
Fatals No:		***A3 Measure:***	
Evacs Yes/No:	No	***A3 Type:***	
Evacs No:		***A3 Other:***	
Cleanup:	CalTrans	***A3 Pipeline:***	No
Cause:	Collision	***A3 Vessel 300 Tons:***	No
A1 Substance:	Petroleum products	***Cause Other:***	
A1 Other:		***Drinking Water Impact:***	Yes
A1 Quantity:	6	***Known Impact:***	Signs Posted
A1 Measure:	Gal(s)	***City:***	Westley
A1 Type:	PETROLEUM	***County:***	Stanislaus County
A1 Pipeline:	No	***ZIP:***	
A1 Vessel 300 Tons:	No		

Admin Agency:	Stanislaus County Environmental Resources
Notification Area:	AA/CUPA,DTSC,RWQCB,US EPA,USFWS,DFG-OSPR,CALTRANS,CDPH-D.O.,CHP,LANDS,PARKS & REC, USCG,Co/WP,Co/Hlth,Co/E-Hlth
Description:	Caller states big rig when down embankment and over turned resulting in the release of approx 6 gallons of petroleum products into Ingram Creek. Caltrans will handle the cleanup.
Location:	South Bound I-5 at Howard Rd

Site: ***CHP- Modesto***
S 5 just South of Howard Rd Westley CA

CHMIRS

Control No:	22-3563	***Notified Date:***	6/23/2022 12:10:00 PM
Year:	2022	***Notified Date Time:***	
County:	Stanislaus County		
URL:			

Spill Report View

Water:		***Creation Date:***	06/23/2022 12:10 PM
Document Title:	SPILL Report		
Spill Site:	Road		
Type:	PETROLEUM		

Hazardous Materials Spill Report

Date :	06/23/2022	***Name:***	
Time:	1210	***Phone:***	
Incident Date:	06/26/2022	***Ext:***	
Incident Time:	0923	***Pag Cell:***	
Control Cal OES:	22-3563	***Prs Name:***	
Control NRC:		***Prs Phone:***	
Water Involved:	No	***Prs Ext:***	
Drink Wtr Impact:		***Prs Pag Cell:***	
Detail for Other:		***Incident Desc:***	
UPRR Rim No:		***Notification Info:***	
DOG Unit:		***Notification List:***	
RWQCB Unit:	5B		
Contained:	Stopped, Contained		
Waterway:			
Received By:			
Cleanup By:	CalTrans		
Incident Location:	S 5 just South of Howard Rd		
Additional County:			
1 Substance:	Diesel		
1 Qty:	=		
1 Amount :	150		
1 Measure:	Gal(s)		
1 Type:	PETROLEUM		
1 Other:			
1 Pipeline:	No		
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty:	=		
2 Amount:			
2 Measure:			
2 Type:			
2 Other:			
2 Pipeline:	No		
2 Ves >= 300 Tns:	No		
3 Substance:			
3 Qty:	=		
3 Amount:			
3 Measure:			
3 Type:			
3 Other:			
3 Pipeline:	No		
3 Ves >= 300 Tons:	No		
Injuries:	No		
Fatality:	No		
Evacuation:	No		
Known Impact:	Road Closure		
Agency:	CHP- Modesto		
PRS Agency:			
Sec Agency:			
Admin Agency:	Stanislaus County Environmental Resources		
Admin Agency 2:			
On Scene:	Cal Trans, CHP, Fire Dept.		
Other on Scene:			
Other Notified:			
Header Unknown:	SAN JOAQUIN VALLEY UNIFIED APCD		
Site:	Road		
Reported Cause:	Collision		
R R Crssing < 50 Ft:			
Description:	Caller states due to a traffic collision a semi trucks saddle tank ruptured causing a release of 150 gallons of diesel onto asphalt. Release is stopped and contained with no waterways impacted.		

California Hazardous Material Incident Report System (2022)

Incident Date:	6/26/2022	***Injuries Yes/No:***	No
Time:	923	***Injuries No:***	
Water:	No	***Fatals Yes/No:***	No
Cause:	Collision	***Fatals No:***	
DOG No:		***Evacs Yes/No:***	No
Spill Site:	Road		
Site:			

City:	Westley
County:	Stanislaus County
Zip:	
Contained:	Stopped,Contained
Water Way:	
Evacs No:	
Cleanup:	CalTrans
A1 Substance:	Diesel
A1 Quantity:	150
A1 Measure:	Gal(s)
A1 Type:	PETROLEUM
A1 Other:	
A1 Pipeline:	No
A1 Vessel 300 Tons:	No
A2 Substance:	
A2 Quantity:	
A2 Measure:	
A2 Type:	
A2 Other:	
A2 Pipeline:	No
A2 Vessel 300 Tons:	No
A3 Substance:	
A3 Quantity:	
A3 Measure:	
A3 Type:	
A3 Other:	
A3 Pipeline:	No
A3 Vessel 300 Tons:	No
Cause Other:	
Admin Agency:	Stanislaus County Environmental Resources
Notification Area:	AA/CUPA,DTSC,RWQCB,US EPA,USFWS,Co/Hlth,Co/E-Hlth
Description:	Caller states due to a traffic collision a semi trucks saddle tank ruptured causing a release of 150 gallons of diesel onto asphalt. Release is stopped and contained with no waterways impacted.
Location:	S 5 just South of Howard Rd

Site: ***Hwy Patrol Merced***
N I-5, north of Howard (Wesley Exit) Stanislaus CA

CHMIRS

Control No:	15-7178	***Notified Date:***	
Year:	2015	***Notified Date Time:***	
County:	Tuolumne County		
URL:	https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/01ae725c1c97d57288257f150060fa67?OpenDocument		

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained:	Yes	***3 Ves >= 300 Tons:***	No
1 Substance:	Diesel Fuel	***Incident Date:***	12/8/2015
1 Measure:	Gal(s)	***Incident Time:***	731
1 Other:		***Spill Site:***	Road
1 Quantity:	30	***Injuries?:***	Yes
1 Type:	PETROLEUM	***No of Injuries:***	1
1 Pipeline:	No	***Fatals?:***	No
1 Vessel >= 300 Tons:	No	***No of Fatals:***	
2 Substance:		***Evacs?:***	No
2 Quantity:		***No of Evacs:***	
2 Measure:		***Cleanup:***	CalTrans
2 Type:		***Site:***	
2 Other:		***Cause:***	Collision
2 Pipeline:	No	***Cause Other:***	
2 Vessel >= 300 Tons:	No	***Dog No:***	
3 Substance:		***Water:***	No
3 Quantity:		***Water Way:***	
3 Measure:		***City:***	Stanislaus
3 Type:		***County:***	Tuolumne County
3 Other:		***ZIP:***	
3 Pipeline:	No		
Admin Agency:	Tuolumne County Environmental Division		
Notification Area:	AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS,LANDS,Co/WP,Co/Hlth,Co/E-Hlth		

Location: N I-5, north of Howard (Wesley Exit)
Description: Caller States: A minor injury accident involving a semi truck resulted in a diesel fuel release. Vehicle rolled and is an upright position which resulted in a puncture of the fuel tank. No impact to any water/waterways, the spill has been contained and clean up is underway.

Spill Report View

Water:
Creation Date: 12/08/2015 09:39 AM
Document Title: SPILL Report
Spill Site: Road
Type: PETROLEUM

Hazardous Materials Spill Report

Date : 12/08/2015
Time: 0939
Incident Date: 12/08/2015
Incident Time: 0731
Control Cal OES: 15-7178
Control NRC:
Water Involved: No
Drink Wtr Impact: No
Detail for Other:
UPRR Rim No:
DOG Unit:
RWQCB Unit: 5B
Contained: Yes
Waterway:
Received By:
Cleanup By: CalTrans
Incident Location: N I-5, north of Howard (Wesley Exit)
Additional County:
1 Substance: Diesel Fuel
1 Qty: <
1 Amount : 30
1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No
1 Ves >= 300 Tons: No
2 Substance:
2 Qty: =
2 Amount:
2 Measure:
2 Type:
2 Other:
2 Pipeline: No
2 Ves >= 300 Tns: No
3 Substance:
3 Qty: =
3 Amount:
3 Measure:
3 Type:
3 Other:
3 Pipeline: No
3 Ves >= 300 Tons: No
Injuries: Yes
Injuries #: 1
Fatality: No
Evacuation: No
Known Impact: None
Agency: Hwy Patrol Merced
PRS Agency:
Sec Agency:
Admin Agency: Tuolumne County Environmental Division
Admin Agency 2:
On Scene: Cal Trans, CHP, Fire Dept.
Other on Scene:
Other Notified:

Name:
Phone:
Ext:
Pag Cell:
Prs Name:
Prs Phone:
Prs Ext:
Prs Pag Cell:
Incident Desc:
Notification Info:
Notification List:

Header Unknown: TUOLUMNE COUNTY APCD
Site: Road
Reported Cause: Collision
R R Crssing < 50 Ft:
Description: Caller States: A minor injury accident involving a semi truck resulted in a diesel fuel release. Vehicle rolled and is an upright position which resulted in a puncture of the fuel tank. No impact to any water/waterways, the spill has been contained and clean up is underway.

Site: ***CHP Merced Comm.***
SB I-5 just north of the Westley Rest Area Westley CA

CHMIRS

Control No:
Year: 2004
County: Stanislaus County
URL:
Notified Date: 7/21/200405:54:45 AM
Notified Date Time:

California Hazardous Material Incident Report System (as of 1997 to 2005)

Contained:	Yes	***Bbls:***	0
Substance:	Diesel	***Cups:***	0
Incident Date:	7/21/200412:00:00 AM	***Cu Ft:***	0
No of Injuries:	0	***Gals:***	160
No of Fatals:	0	***Grams:***	0
No of Evacs:	0	***Lbs:***	0
Cleanup:	Unknown	***Liters:***	0
Water:		***Oz:***	0
Water Way:		***Pts:***	0
City:	Westley	***Qts:***	0
County:	Stanislaus County	***Sheen:***	0
ZIP:		***Tons:***	0
Site:	Road	***Unknown:***	0

Admin Agency: Stanislaus County Environmental Resources
Location: SB I-5 just north of the Westley Rest Area
Description: Released from the saddle tank of a truck involved in an accident. CHP Log 014.

Site: ***The Spill Center***
Westley rest area, I-5 NB Westley CA 94026

CHMIRS

Control No:
Year: 1998
County: Stanislaus County
URL:
Notified Date: 3/22/199807:17:18 AM
Notified Date Time:

California Hazardous Material Incident Report System (as of 1997 to 2005)

Contained:	Yes	***Bbls:***	0
Substance:	Turpentine/paint substances	***Cups:***	0
Incident Date:	3/22/199812:00:00 AM	***Cu Ft:***	0
No of Injuries:	0	***Gals:***	0.000000
No of Fatals:	0	***Grams:***	0
No of Evacs:	0	***Lbs:***	0
Cleanup:	Laidlaw Environmental	***Liters:***	0
Water:	No	***Oz:***	0
Water Way:		***Pts:***	0
City:	Westley	***Qts:***	0
County:	Stanislaus County	***Sheen:***	0
ZIP:	94026	***Tons:***	0
Site:	Road	***Unknown:***	0

Admin Agency: Stanislaus County Environmental Resources
Location: Westley rest area, I-5 NB
Description: Freight hauling big rig has product leaking out from its doors; unknown cause, products not identified.

Site: ***CHP Modesto***
SB I5 SO Westley Rest Stop Westley CA

CHMIRS

Control No: 11-2737
Year: 2011
Notified Date:
Notified Date Time:

County: Stanislaus County
URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/edf171d3f68d0228882578850011f243?OpenDocument

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained:	Yes	***3 Ves >= 300 Tons:***	No
1 Substance:	Fuel - Diesel	***Incident Date:***	5/2/2011
1 Measure:	Gal(s)	***Incident Time:***	1840
1 Other:		***Spill Site:***	Road
1 Quantity:	100	***Injuries?:***	No
1 Type:	PETROLEUM	***No of Injuries:***	
1 Pipeline:		***Fatals?:***	No
1 Vessel >= 300 Tons:	No	***No of Fatals:***	
2 Substance:		***Evacs?:***	No
2 Quantity:		***No of Evacs:***	
2 Measure:		***Cleanup:***	Contractor
2 Type:		***Site:***	
2 Other:		***Cause:***	Collision
2 Pipeline:		***Cause Other:***	
2 Vessel >= 300 Tons:	No	***Dog No:***	
3 Substance:		***Water:***	No
3 Quantity:		***Water Way:***	
3 Measure:		***City:***	Westley
3 Type:		***County:***	Stanislaus County
3 Other:		***ZIP:***	
3 Pipeline:			

Admin Agency: Stanislaus County Environmental Resources
Notification Area: AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS
Location: SB I5 SO Westley Rest Stop
Description: Accident involving two big rigs caused release, material flowed onto the asphalt and soil, contractor is handling containment and clean up.

Spill Report View

Water:		***Creation Date:***	05/03/2011 11:58 AM
Document Title:	Cal OES-Update		
Spill Site:			
Type:	PETROLEUM		

OES Hazardous Materials Spill Update

Occurrence Date:	05/02/2011	***Prs Notif Upd Nm:***	
Occurrence Time:	1840	***Phone No:***	
Notify Date:	05/02/2011	***Ext:***	
Notify Time:	2016	***Pag Cell:***	
NRC:		***Fax Notific List 2:***	
RWQCB Unit:	5B	***Admin Agency 2:***	
Unknown Header:		***Add Admin Agency 2:***	
OP Area:	Stanislaus County	***Secondary Agency 2:***	
RWQCB Unit 2:		***Dog Unit 2:***	
Add Counties 2:			
1 Substance:	Fuel - Diesel		
1 Qty Amount:	100		
1 Measure:	Gal(s)		
1 Type:	PETROLEUM		
1 Other:			
1 Pipeline:			
1 Ves >= 300 Tons:	No		
2 Substance:			
2 Qty Amount:			
2 Measure:			
2 Type:			
2 Other:			
2 Pipeline:			
2 Ves >= 300 Tons:	No		
3 Substance:			
3 Qty Amount:			
3 Measure:			

3 Type:
3 Other:
3 Pipeline:
3 Ves >= 300 Tons: No
Pers Reporting Spill Agency:
Pers Notifying CA OES Agency: CHP Modesto
Fax Notifi List: AA/CUPA, DFG-OSPR, DTSC, RWQCB, US EPA, USFWS
Other Notified:
Confirmation Request:
Administering Agency: Stanislaus County Environmental Resources
Secondary Agency:
Additional Admin Agency:
Additional Counties:
Doc URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/0ca5cc1b7f516d12882578850068335 3?OpenDocument
Update Known Impact:
Update Cause:
Update Description:

05/03/2011 11:58:08 AM - 05/03/11 1200 Hrs, Caller states 75 gallons was released and contractor has been hired for clean-up

Situation Update:

05/03/11 1200 Hrs, Caller states 75 gallons was released and contractor has been hired for clean-up

Original Description:

Accident involving two big rigs caused release, material flowed onto the asphalt and soil, contractor is handling containment and clean up.

OES Hazardous Materials Update Quantities

Amount:
Measure: Gal(s)

Spill Report View

Water:
Creation Date: 05/02/2011 08:16 PM
Document Title: SPILL Report
Spill Site: Road
Type: PETROLEUM

Hazardous Materials Spill Report

Date : 05/02/2011
Time: 2016
Incident Date: 05/02/2011
Incident Time: 1840
Control Cal OES: 11-2737
Control NRC:
Water Involved: No
Drink Wtr Impact:
Detail for Other:
UPRR Rim No:
DOG Unit:
RWQCB Unit: 5B
Contained: Yes
Waterway:
Received By:
Cleanup By: Contractor
Incident Location: SB I5 SO Westley Rest Stop
Additional County:
1 Substance: Fuel - Diesel
1 Qty: =
1 Amount : 100
1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No

Name:
Phone:
Ext:
Pag Cell:
Prs Name:
Prs Phone:
Prs Ext:
Prs Pag Cell:
Incident Desc:
Notification Info:
Notification List:

1 Ves >= 300 Tons:	No
2 Substance:	
2 Qty:	=
2 Amount:	
2 Measure:	
2 Type:	
2 Other:	
2 Pipeline:	No
2 Ves >= 300 Tns:	No
3 Substance:	
3 Qty:	=
3 Amount:	
3 Measure:	
3 Type:	
3 Other:	
3 Pipeline:	No
3 Ves >= 300 Tons:	No
Injuries:	No
Fatality:	No
Evacuation:	No
Known Impact:	Road Closure
Agency:	CHP Modesto
PRS Agency:	
Sec Agency:	
Admin Agency:	Stanislaus County Environmental Resources
Admin Agency 2:	
On Scene:	Cal Trans, CHP, Fire Dept.
Other on Scene:	
Other Notified:	
Header Unknown:	SAN JOAQUIN VALLEY UNIFIED APCD
Site:	Road
Reported Cause:	Collision
R R Crssing < 50 Ft:	
Description:	Accident involving two big rigs caused release, material flowed onto the asphalt and soil, contractor is handling containment and clean up.

Site: ***ERTS***
SB I5 at Exit 441 Westley CA

CHMIRS

Control No:	14-2450	***Notified Date:***	
Year:	2014	***Notified Date Time:***	
County:	Stanislaus County		
URL:	https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/3474af15ba707fac88257cc900523657?OpenDocument		

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained:	Unknown	***3 Ves >= 300 Tons:***	No
1 Substance:	Fuel - Diesel	***Incident Date:***	4/29/2014
1 Measure:	Gal(s)	***Incident Time:***	739
1 Other:		***Spill Site:***	Road
1 Quantity:	Unk	***Injuries?:***	No
1 Type:	PETROLEUM	***No of Injuries:***	
1 Pipeline:	No	***Fatals?:***	No
1 Vessel >= 300 Tons:	No	***No of Fatals:***	
2 Substance:		***Evacs?:***	No
2 Quantity:		***No of Evacs:***	
2 Measure:		***Cleanup:***	Contractor
2 Type:		***Site:***	Ingram Creek
2 Other:		***Cause:***	Collision
2 Pipeline:	No	***Cause Other:***	
2 Vessel >= 300 Tons:	No	***Dog No:***	
3 Substance:		***Water:***	Yes
3 Quantity:		***Water Way:***	Ingram Creek
3 Measure:		***City:***	Westley
3 Type:		***County:***	Stanislaus County
3 Other:		***ZIP:***	
3 Pipeline:	No		
Admin Agency:	Stanislaus County Environmental Resources		

Notification Area: AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS,LANDS,PARKS & REC,USCG,Co/WP,Co/Hlth,Co/E-Hlth
Location: SB I5 at Exit 441
Description: Collision involving a semi truck caused the release, material apparently flowed into a creek, unknown who is handling containment, contractor en route for clean up.

Spill Report View

Water:
Creation Date: 04/29/2014 07:57 AM
Document Title: SPILL Report
Spill Site: Road
Type: PETROLEUM

Hazardous Materials Spill Report

Date : 04/29/2014
Time: 0757
Incident Date: 04/29/2014
Incident Time: 0739
Control Cal OES: 14-2450
Control NRC:
Water Involved: Yes
Drink Wtr Impact: No
Detail for Other:
UPRR Rim No:
DOG Unit:
RWQCB Unit: 5B
Contained: Unknown
Waterway: Ingram Creek
Received By:
Cleanup By: Contractor
Incident Location: SB I5 at Exit 441
Additional County:
1 Substance: Fuel - Diesel
1 Qty: =
1 Amount : Unk
1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No
1 Ves >= 300 Tons: No
2 Substance:
2 Qty: =
2 Amount:
2 Measure:
2 Type:
2 Other:
2 Pipeline: No
2 Ves >= 300 Tns: No
3 Substance:
3 Qty: =
3 Amount:
3 Measure:
3 Type:
3 Other:
3 Pipeline: No
3 Ves >= 300 Tons: No
Injuries: No
Fatality: No
Evacuation: No
Known Impact: Unknown
Agency: ERTS
PRS Agency:
Sec Agency:
Admin Agency: Stanislaus County Environmental Resources
Admin Agency 2:
On Scene: Cal Trans
Other on Scene:
Other Notified:
Header Unknown: SAN JOAQUIN VALLEY UNIFIED APCD

Name:
Phone:
Ext:
Pag Cell:
Prs Name:
Prs Phone:
Prs Ext:
Prs Pag Cell:
Incident Desc:
Notification Info:
Notification List:

Site: Road
Reported Cause: Collision
R R Crssing < 50 Ft:
Description: Collision involving a semi truck caused the release, material apparently flowed into a creek, unknown who is handling containment, contractor en route for clean up.

Spill Report View

Water:
Creation Date: 04/29/2014 08:19 AM
Document Title: Cal OES-Update
Spill Site:
Type: PETROLEUM

OES Hazardous Materials Spill Update

Occurrence Date: 04/29/2014
Occurrence Time: 0739
Notify Date: 04/29/2014
Notify Time: 0757
NRC: 1081179
RWQCB Unit: 5B
Unknown Header: SAN JOAQUIN VALLEY UNIFIED APCD
OP Area: Stanislaus County
RWQCB Unit 2:
Add Counties 2:
Prs Notif Upd Nm:
Phone No:
Ext:
Pag Cell:
Fax Notific List 2:
Admin Agency 2:
Add Admin Agency 2:
Secondary Agency 2:
Dog Unit 2:
1 Substance: Fuel - Diesel
1 Qty Amount: Unk
1 Measure: Gal(s)
1 Type: PETROLEUM
1 Other:
1 Pipeline: No
1 Ves >= 300 Tons: No
2 Substance:
2 Qty Amount:
2 Measure:
2 Type:
2 Other:
2 Pipeline: No
2 Ves >= 300 Tons: No
3 Substance:
3 Qty Amount:
3 Measure:
3 Type:
3 Other:
3 Pipeline: No
3 Ves >= 300 Tons: No
Pers Reporting Spill Agency:
Pers Notifying CA OES Agency: ERTS
Fax Notifi List: AA/CUPA, DFG-OSPR, DTSC, RWQCB, US EPA, USFWS, LANDS, PARKS & REC, USCG, Co/WP, Co/Hlth, Co/E-Hlth
Other Notified:
Confirmation Request:
Administering Agency: Stanislaus County Environmental Resources
Secondary Agency:
Additional Admin Agency:
Additional Counties:
Doc URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/e24d680aabb71a9b88257cc9005429e4?OpenDocument
Update Known Impact:
Update Cause:
Update Description:

04/29/2014 08:19:17 AM - NRC report received.

Situation Update:

NRC report received.

Original Description:

Collision involving a semi truck caused the release, material apparently flowed into a creek, unknown who is handling containment, contractor en route for clean up.

OES Hazardous Materials Update Quantities

Amount:
Measure: Gal(s)

Site: ***Hazmat One***
Northbound I-5, Westley Rest Stop exit ramp Westley CA CHMIRS

Control No: 12-0938
Year: 2012
County: Stanislaus County
URL: https://w3.calema.ca.gov/operational/malhaz.nsf/f1841a103c102734882563e200760c4a/1f2c731d96fdcb96882579a70072b007?OpenDocument
Notified Date:
Notified Date Time:

California Hazardous Material Incident Report System (as of 2006 to 2015)

Contained:	Yes	***3 Ves >= 300 Tons:***	No
1 Substance:	Petroleum Distillates	***Incident Date:***	2/17/2012
1 Measure:	Gal(s)	***Incident Time:***	900
1 Other:		***Spill Site:***	Road
1 Quantity:	5	***Injuries?:***	No
1 Type:	PETROLEUM	***No of Injuries:***	
1 Pipeline:	No	***Fatals?:***	No
1 Vessel >= 300 Tons:	No	***No of Fatals:***	
2 Substance:		***Evacs?:***	No
2 Quantity:		***No of Evacs:***	
2 Measure:		***Cleanup:***	Morgan Environmental Contractor
2 Type:		***Site:***	
2 Other:		***Cause:***	Human Error
2 Pipeline:	No	***Cause Other:***	
2 Vessel >= 300 Tons:	No	***Dog No:***	
3 Substance:		***Water:***	No
3 Quantity:		***Water Way:***	
3 Measure:		***City:***	Westley
3 Type:		***County:***	Stanislaus County
3 Other:		***ZIP:***	
3 Pipeline:	No		

Admin Agency: Stanislaus County Environmental Resources
Notification Area: AA/CUPA,DFG-OSPR,DTSC,RWQCB,US EPA,USFWS
Location: Northbound I-5, Westley Rest Stop exit ramp
Description: Caller states a 5-gallon pail of the substance was punctured by freight during transit. The release impacted the inside of the trailer and less than one gallon impacted soil.

Spill Report View

Water:
Document Title: SPILL Report
Spill Site: Road
Type: PETROLEUM
Creation Date: 02/17/2012 12:52 PM

Hazardous Materials Spill Report

Date :	02/17/2012	***Name:***	
Time:	1252	***Phone:***	
Incident Date:	02/17/2012	***Ext:***	
Incident Time:	0900	***Pag Cell:***	
Control Cal OES:	12-0938	***Prs Name:***	
Control NRC:		***Prs Phone:***	
Water Involved:	No	***Prs Ext:***	
Drink Wtr Impact:		***Prs Pag Cell:***	
Detail for Other:		***Incident Desc:***	
UPRR Rim No:		***Notification Info:***	
DOG Unit:		***Notification List:***	

RWQCB Unit:	5B
Contained:	Yes
Waterway:	
Received By:	
Cleanup By:	Morgan Environmental Contractor
Incident Location:	Northbound I-5, Westley Rest Stop exit ramp
Additional County:	
1 Substance:	Petroleum Distillates
1 Qty:	=
1 Amount :	5
1 Measure:	Gal(s)
1 Type:	PETROLEUM
1 Other:	
1 Pipeline:	No
1 Ves >= 300 Tons:	No
2 Substance:	
2 Qty:	=
2 Amount:	
2 Measure:	
2 Type:	
2 Other:	
2 Pipeline:	No
2 Ves >= 300 Tns:	No
3 Substance:	
3 Qty:	=
3 Amount:	
3 Measure:	
3 Type:	
3 Other:	
3 Pipeline:	No
3 Ves >= 300 Tons:	No
Injuries:	No
Fatality:	No
Evacuation:	No
Known Impact:	None
Agency:	Hazmat One
PRS Agency:	
Sec Agency:	
Admin Agency:	Stanislaus County Environmental Resources
Admin Agency 2:	
On Scene:	
Other on Scene:	
Other Notified:	
Header Unknown:	SAN JOAQUIN VALLEY UNIFIED APCD
Site:	Road
Reported Cause:	Human Error
R R Crssing < 50 Ft:	
Description:	Caller states a 5-gallon pail of the substance was punctured by freight during transit. The release impacted the inside of the trailer and less than one gallon impacted soil.

Site: ***AMERICAN TOWERS LLC***
8336 I-5 WESTLEY PATTERSON CA 95363

EMISSIONS

2023 Pollutant Data

Facility ID:	8988	***CO:***	50
Facility SIC Code:	4812	***CO ID:***	STA
CERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
ROGT:	.000483601883116275	***NOXT:***	.0066431627101762
COT:	.00178169114832312	***SOXT:***	.000012978216201067
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000549922541637792813281783033886740959745		
PMT:	.000307276426845033199195171026156941649899		
PM10T:	.000305432768283963		
Source:	2023 Pollutant Data		

2023 Toxic Data

Facility ID:	8988	***CO:***	50
Facility SIC Code:	4812	***COID:***	STA
CHERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			
DISN:	SAN JOAQUIN VALLEY APCD		
Source:	2023 Toxic Data		

2024 Toxic Data

Facility ID:	8988
Facility SIC Cd:	4812
CERR Code:	
CHAPIS:	
Source:	2024 Toxic Data
TS:	1.26
Co:	50
COID:	STA
Air Basin:	SJV
District:	SJU
Health Risk Asmt:	
Non-Cancer Chronic Haz Ind:	
Non-Cancer Acute Haz Ind:	
DISN:	SAN JOAQUIN VALLEY APCD

2024 Criteria Data

Facility ID:	8988	***CO:***	50
Facility SIC Code:	4812	***CO ID:***	STA
CERR Code:		***Air Basin:***	SJV
CHAPIS:		***District:***	SJU
ROGT:	.00053358304929471	***NOXT:***	.00732974609820628
COT:	.00196583228687525	***SOXT:***	.000014319539308548
DISN:	SAN JOAQUIN VALLEY APCD		
TOGT:	.000606758072884591767113941323629747555151		
PMT:	.000339034024755719315895372233400402414487		
PM10T:	.000336999820607185		
Source:	2024 Criteria Data		

Site:

I 5 SOUTHBOUND EXIT 441 WESTLEY CA ERNS

NRC Report No:	1081179	***Latitude Degrees:***	
Type of Incident:	MOBILE	***Latitude Minutes:***	
Incident Cause:	OTHER	***Latitude Seconds:***	
Incident Date:	29-Apr-2014 07:39:00	***Longitude Degrees:***	
Incident Location:		***Longitude Minutes:***	
Incident Dtg:	DISCOVERED	***Longitude Seconds:***	
Distance from City:		***Lat Quad:***	
Distance Units:		***Long Quad:***	
Direction from City:		***Location Section:***	
Location County:	STANISLAUS	***Location Township:***	
Potential Flag:	No	***Location Range:***	
Year:	Year 2014 Reports		
Description of Incident:	CALLER IS REPORTING A SINGLE VEHICLE ACCIDENT RESULTING IN A SPILL OF DIESEL FUEL TO THE GROUND. THERE MAY BE A CREEK IMPACTED.		

Material Spill Information

Chris Code:	ODS	***Unit of Measure:***	UNKNOWN AMOUNT
CAS No:	000000-00-0	***If Reached Water:***	UNKNOWN
UN No:		***Amount in Water:***	0
Name of Material:	OIL: DIESEL	***Unit Reach Water:***	UNKNOWN AMOUNT

Amount of Material: 0

Calls Information

Date Time Received: 29-Apr-2014 11:10:16
Date Time Complete: 29-Apr-2014 11:16:36
Call Type: INC
Resp Company: WERNER ENTERPRISES
Resp Org Type: PRIVATE ENTERPRISE
Responsible City: OMAHA
Responsible State: NE
Responsible Zip:
Source: TELEPHONE

Incident Information

Tank ID:
Tank Regulated: U
Tank Regulated By:
Capacity of Tank:
Capacity Tank Units:
Description of Tank:
Actual Amount:
Actual Amount Units:
Tank Above Ground: ABOVE
NPDES:
NPDES Compliance: U
Init Contin Rel No:
Contin Rel Permit:
Contin Release Type:
Aircraft ID:
Aircraft Runway No:
Aircraft Spot No:
Aircraft Type:
Aircraft Model:
Aircraft Fuel Cap:
Aircraft Fuel Cap U:
Aircraft Fuel on Brd:
Aircraft Fuel OB U:
Aircraft Hanger:
Road Mile Marker:
Power Gen Facility: U
Generating Capacity:
Type of Fixed Obj:
Type of Fuel:
DOT Crossing No:
DOT Regulated: U
Pipeline Type:
Pipeline Abv Ground: ABOVE
Pipeline Covered: U
Exposed Underwater: N
Railroad Hotline:
Railroad Milepost:
Grade Crossing: U
Crossing Device Ty:
Ty Vehicle Involved:
Device Operational: U

Building ID:
Location Area ID:
Location Block ID:
OCSG No:
OCSP No:
State Lease No:
Pier Dock No:
Berth Slip No:
Brake Failure: U
Airbag Deployed: U
Transport Contain: U
Location Subdiv:
Platform Rig Name:
Platform Letter:
Allision: U
Type of Structure:
Structure Name:
Structure Oper: U
Transit Bus Flag:
Date Time Norm Serv:
Serv Disrupt Time:
Serv Disrupt Units:
CR Begin Date:
CR End Date:
CR Change Date:
FBI Contact:
FBI Contact Dt Tm:
Passenger Handling:
Passenger Route: XXX
Passenger Delay: XXX
Sub Part C Test Req: XXX
No of Conductor Tested:
No of Engineer Tested:
No of Trainman Tested:
No of Yard Foreman Tested:
No of RCL Operator Tested:
No of Brakeman Tested:
No of Train Dispat Tested:
No of Signalman Tested:
No of Other Emp Tested:
No of Unknown Emp Tested:

Incident Details Information

Release Secured: U
Release Rate:
State Agen Report No: 142450
State Agen on Scene:

Release Rate Unit:		***State Agen Notified:***	CA EMA
Release Rate Rate:		***Fed Agency Notified:***	
Est Duration of Rel:		***Oth Agency Notified:***	
Desc Remedial Act:	CLEAN UP IS CONTRACTED.	***Body of Water:***	
Fire Involved:	N	***Tributary of:***	
Fire Extinguished:	U	***Near River Mile Make:***	
Any Evacuations:	N	***Near River Mile Mark:***	
No Evacuated:		***Offshore:***	N
Who Evacuated:		***Weather Conditions:***	
Radius of Evac:		***Air Temperature:***	
Any Injuries:	N	***Wind Direction:***	
No. Injured:		***Wind Speed:***	
No. Hospitalized:		***Wind Speed Unit:***	
No. Fatalities:		***Water Supp Contam:***	U
Any Fatalities:	N	***Water Temperature:***	
Any Damages:	N	***Wave Condition:***	
Damage Amount:		***Current Speed:***	
Air Corridor Closed:	N	***Current Direction:***	
Air Corridor Desc:		***Current Speed Unit:***	
Air Closure Time:		***EMPL Fatality:***	
Waterway Closed:	N	***Pass Fatality:***	
Waterway Desc:		***Community Impact:***	
Waterway Close Time:		***Passengers Transfer:***	NO
Road Closed:	N	***Passenger Injuries:***	
Road Desc:		***Employee Injuries:***	
Road Closure Time:		***Occupant Fatality:***	
Road Closure Units:		***Sheen Size:***	
Closure Direction:		***Sheen Size Units:***	
Major Artery:	No	***Sheen Size Length:***	
Track Closed:	N	***Sheen Size Length U:***	
Track Desc:		***Sheen Size Width:***	
Track Closure Time:		***Sheen Size Width U:***	
Track Closure Units:		***Sheen Color:***	
Track Close Dir:		***Dir of Sheen Travel:***	
Media Interest:	UNKNOWN	***Sheen Odor Desc:***	
Medium Desc:	LAND	***Duration Unit:***	
Addl Medium Info:	GROUND (POSSIBLY INGRAM CREEK)	***Additional Info:***	

Site: ***KLM PIPELINE REPAIR MP108.64***
I-5 PATTERSON CA

FINDS/FRS

Registry ID:	110064955516
FIPS Code:	
HUC Code:	
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	
Create Date:	10-OCT-15
Update Date:	
Interest Types:	STATE MASTER
SIC Codes:	1522
SIC Code Descriptions:	GENERAL CONTRACTORS-RESIDENTIAL BUILDINGS, OTHER THAN SINGLE-FAMILY
NAICS Codes:	
NAICS Code Descriptions:	
Conveyor:	
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	
Census Block Code:	
EPA Region Code:	09
County Name:	STANISLAUS COUNTY
US/Mexico Border Ind:	
Latitude:	
Longitude:	
Reference Point:	
Coord Collection Method:	
Accuracy Value:	
Datum:	NAD83

Source:
Frs Facility Detail Report Url: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110064955516
Program Acronyms:

CA-ENVIROVIEW:318950

Site: ***PG&E T301 14 L002 MP 118.10 121.98 NEW WESTLEY TOWN REG***
APPROX 400 FT S OF HOWARD RD PATTERSON CA 95363

HAZ GEN

EPA ID: CAP000245274 ***Facility County:*** 50
Address 2: ***County:*** Stanislaus
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAP000245274

Site: ***CALTRANS D-10/EA 10-1E1204***
I-5 (NB&SB) PATTERSON CA 95363

HAZ GEN

EPA ID: CAC002874102 ***Facility County:*** 50
Address 2: ***County:*** Stanislaus
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002874102

Site: ***TARGET EXPRESS INC/LEE JENNINGS ENTERP***
NOURTH BOUND I5 NR WESTLEY WESTLEY CA 000000000

HAZ GEN

EPA ID: CAC000910552 ***Facility County:*** 50
Address 2: ***County:*** Stanislaus
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC000910552

Site: ***PACIFIC GAS & ELECTRIC, NEW WESTLEY SUBSTATION***
ON HOWARD RD 4/10 OF A MI S OF EXIT WESTLEY CA 953870000

HAZ GEN

EPA ID: CAC002607814 ***Facility County:*** 50
Address 2: ***County:*** Stanislaus
Details DTSC HWTS: The Department of Toxic Substances Control (DTSC) makes available a Waste Code Matrix showing each Waste Code, its description, and annual amounts in its Hazardous Waste Tracking System: https://hwts.dtsc.ca.gov/search
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002607814

Site: ***FEDEX FREIGHT***
I-5 NORTHBOUND EXIT 440 WESTLEY CA 95363

HAZ GEN

EPA ID: CAC002943193 ***Facility County:*** STANISLAUS
Address 2: ***County:***
Details DTSC HWTS:
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002943193

Tanner Details

Waste Category Code: 343
Waste Category: Unspecified organic liquid mixture
Yearly Totals:

2018: 2.431

Waste Category Code: 352

Waste Category: Other organic solids
Yearly Totals:

2018: 0.075

Contact Details

Contact Name: STEVEN CHANEY
Mailing Street: 6900 ALCOA RD
Mailing City: BENTON
Mailing Zip: 72015
Contact Phone: 5018607904
Year: 2018

Site: ***HALDOR TOPSOE***
I-5, 1 MILE NORTH OF WESLEY STANISLAUS CA 000000000 HAZNET

EPA ID: CAC000929064
Create Date: 11/23/1994
Fac Act Ind: No
Inact Date: 10/25/2000
Region Code: 1
County: 55
County Name: Tuolumne
Mail Name:
Mailing Addr 1: 10010 BAYPORT
Mailing Addr 2:
Mailing City: PASADENA
NAICS Code:
SIC Code:
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC000929064

Mailing State: CA
Mailing Zip: 775070000
Owner Name: --
Owner Addr 1: --
Owner Addr 2:
Owner City: --
Owner State: 99
Owner Zip: --
Owner Phone: 0000000000
Owner Fax:

Site: ***MARTENTRANSPORTATION LTD***
INTERSTATE 5 WESTLEY CA 95387 HAZNET

EPA ID: CAC002850457
Create Date: 2/24/2016
Fac Act Ind: No
Inact Date: 5/26/2016
Region Code: 1
County: 50
County Name: Stanislaus
Mail Name:
Mailing Addr 1: 129 MARTEN ST
Mailing Addr 2:
Mailing City: MONDOVI
NAICS Code: 48422
SIC Code: 4212,4214
Handler Profile URL: https://hwts.dtsc.ca.gov/facility/CAC002850457

Mailing State: WI
Mailing Zip: 54755
Owner Name: MATEN TRANSPORTAION LTD
Owner Addr 1: 129 MARTEN ST
Owner Addr 2:
Owner City: MONDOVI
Owner State: WI
Owner Zip: 54755
Owner Phone: 8004713134
Owner Fax:

Site: ***S. SIMON FREIGHT***
I-5 NORTHBOUND .5 MILES SOUTHWEST RESTSTOP UNINC CA HIST CHMIRS

OES Control NO: 8910928
Release Factors: Collision/Overturn
Release Text:
Equipm Involved: Other
Action Taken Text:
Chemicals: DIESEL FUEL
Case Number:
HazMat Other: DRIVER
HM Injury: 0
Decon: 0
Agency Name: STANISLAUS DER
HazMat Pers: Other
Action Taken: Remove Hazard (Neutralize)
More than three involved?: 2

Incident Date: 11/30/1989
Date Reported: 12/4/1989
Fatalities: 0
Other Injury: 0
Other Decon: 0
Other Fatal: 0
Vehicle: 1985 FREIGHTLINER
State: CA
CA DOT PUC ICC: 3498703
Company Name: S. SIMON FREIGHT
County: STANISLAUS

Site: ***BROWNLINE INC***
I-5 1/4 MILE NORTH OF WESTLY EXIT WESTLEY CA

HIST CHMIRS

OES Control NO:	9011189	***Incident Date:***	6/5/1990
Release Factors:	Collision/Overturn	***Date Reported:***	6/5/1990
Release Text:		***Fatalities:***	0
Equipm Involved:	Other	***Other Injury:***	0
Action Taken Text:		***Other Decon:***	0
Chemicals:	DIESEL FUEL	***Other Fatal:***	0
Case Number:		***Vehicle:***	87 INTERNATIONAL
HazMat Other:		***State:***	WA
HM Injury:	0	***CA DOT PUC ICC:***	00830TR
Decon:	0	***Company Name:***	BROWNLINE INC
Agency Name:	STANISLAUS DER	***County:***	STANISLAUS
HazMat Pers:	On-site Fire Services		
Action Taken:	No Action Taken		
More than three involved?:	2		

Site:
S/B I-5 1056' S/PETE MILLER RD UNINC CA

HIST CHMIRS

OES Control NO:	9010082	***Incident Date:***	2/15/1990
Release Factors:	Collision/Overturn	***Date Reported:***	3/20/1990
Release Text:		***Fatalities:***	0
Equipm Involved:		***Other Injury:***	0
Action Taken Text:		***Other Decon:***	0
Chemicals:	ACID, SULFURIC	***Other Fatal:***	0
Case Number:		***Vehicle:***	
HazMat Other:		***State:***	
HM Injury:	0	***CA DOT PUC ICC:***	
Decon:	2	***Company Name:***	
Agency Name:	CHP	***County:***	STANISLAUS
HazMat Pers:			
Action Taken:	Investigate,Provide Public Info,Traffic Control		
More than three involved?:	2		

Site: ***BURLINGTON MOTOR CARRIERS***
S/B I-5 AT WESLEY REST AREA UNINC CA

HIST CHMIRS

OES Control NO:	9100608	***Incident Date:***	7/4/1991
Release Factors:	Misuse of Hazmat	***Date Reported:***	7/7/1991
Release Text:		***Fatalities:***	0
Equipm Involved:	Other	***Other Injury:***	0
Action Taken Text:		***Other Decon:***	0
Chemicals:	ANCAMINE	***Other Fatal:***	0
Case Number:		***Vehicle:***	1990 FRG
HazMat Other:		***State:***	IN
HM Injury:	0	***CA DOT PUC ICC:***	LNI696
Decon:	0	***Company Name:***	BURLINGTON MOTOR CARRIERS
Agency Name:	CHP	***County:***	STANISLAUS
HazMat Pers:	Private Info Source		
Action Taken:	63,Decon-Area(Cleanup),Establish Safe Area,Evacuation,ID/Analysis of Hazmat,Investigate,Monitor,Remove Hazard (Neutralize),Traffic Control		
More than three involved?:	2		

Site: ***W. H. TANK LINES***
I-5 S/B AT WESTLEY REST AREA OFF WESTLEY CA

HIST CHMIRS

OES Control NO:	9370591	***Incident Date:***	9/20/1993
Release Factors:	Collision/Overturn	***Date Reported:***	9/20/1993
Release Text:		***Fatalities:***	0
Equipm Involved:	Vehicular Fuel System	***Other Injury:***	0

Action Taken Text:		***Other Decon:***	6
Chemicals:	DIESEL FUEL	***Other Fatal:***	0
Case Number:		***Vehicle:***	INTERNATIONAL 78
HazMat Other:		***State:***	CA
HM Injury:	0	***CA DOT PUC ICC:***	SP09481
Decon:	1	***Company Name:***	W. H. TANK LINES
Agency Name:	CHP	***County:***	STANISLAUS
HazMat Pers:	Placards/Signs		
Action Taken:	Contain/Control Hazmat,Investigate,Remove Hazard (Neutralize)		
More than three involved?:	2		

Site:
I-5 AT HYIYO UNINC CA

HIST CHMIRS

OES Control NO:	9992348	***Incident Date:***	8/2/1988
Release Factors:	Collision/Overturn	***Date Reported:***	8/2/1988
Release Text:		***Fatalities:***	
Equipm Involved:		***Other Injury:***	
Action Taken Text:		***Other Decon:***	
Chemicals:	FUNGICIDE	***Other Fatal:***	
Case Number:		***Vehicle:***	
HazMat Other:		***State:***	
HM Injury:		***CA DOT PUC ICC:***	
Decon:		***Company Name:***	
Agency Name:	STANISLAUS DER	***County:***	STANISLAUS
HazMat Pers:			
Action Taken:	ID/Analysis of Hazmat,Investigate,Remove Hazard (Neutralize)		
More than three involved?:			

Site: ***KOPYMAN***
S/B I-5 20' S/STANISLAUS CO. UNINC CA

HIST CHMIRS

OES Control NO:	8910482	***Incident Date:***	6/18/1989
Release Factors:	Collision/Overturn	***Date Reported:***	7/5/1989
Release Text:		***Fatalities:***	0
Equipm Involved:		***Other Injury:***	0
Action Taken Text:		***Other Decon:***	0
Chemicals:	DIESEL FUEL	***Other Fatal:***	0
Case Number:		***Vehicle:***	
HazMat Other:		***State:***	
HM Injury:	0	***CA DOT PUC ICC:***	
Decon:	0	***Company Name:***	KOPYMAN
Agency Name:	CHP	***County:***	STANISLAUS
HazMat Pers:	On-site Non-fire Serv.		
Action Taken:	Investigate,Provide Public Info,Traffic Control		
More than three involved?:	2		

Site: ***INTER-CAL***
I-5 1 MILE NORTH OF WESTLEY EXIT WESTLEY CA

HIST CHMIRS

OES Control NO:	9010573	***Incident Date:***	4/28/1990
Release Factors:	Collision/Overturn	***Date Reported:***	4/30/1990
Release Text:		***Fatalities:***	0
Equipm Involved:	No Equip Involved	***Other Injury:***	0
Action Taken Text:		***Other Decon:***	0
Chemicals:	DIESEL FUEL	***Other Fatal:***	0
Case Number:		***Vehicle:***	1970 FREIGHTLINER
HazMat Other:		***State:***	CA
HM Injury:	0	***CA DOT PUC ICC:***	CA2C99154
Decon:	0	***Company Name:***	INTER-CAL
Agency Name:	STANISLAUS DER	***County:***	STANISLAUS
HazMat Pers:	On-site Non-fire Serv.		
Action Taken:	Remove Hazard (Neutralize)		
More than three involved?:	2		

Site:

WESTLEY RD @ I-5 WESTLEY CA 953500000

HIST MANIFEST

Gen EPA ID:	CAX000149344
Create Date:	2/19/1985 0:00:00
Inact Date:	4/30/1986 0:00:00
Facility Mail Street:	CAL-TRANS
Facility Mail City:	MODESTO
Facility Mail State:	CA
Facility Mail Zip:	953500000
Contact Phone(s):	2095766292
File Year(s):	1985
Contact Name(s):	LARRY COMBS

Tanner Information

State Waste Code:	135	***Generator County:***	Stanislaus
Year:	1985	***Tsd Epa ID:***	CAD000060012
Tons:	4.00E-03	***Tsd County:***	Solano
Method Code:	D80		
State Waste Code Desc:	Unspecified aqueous solution		
Method Description:			

Site: ***FILBIN RANCH DISPOSAL SITE***
INGRAM CREEK ROAD WESTLEY CA 95387

WMUD

Wmu ID No:	5 500005NUR	***Npid:***	
Wds ID No:	5 500005NUR	***Rptf:***	
Swis ID No:	50-AA-0007	***Sic1:***	
Reg ID No:		***Sic2:***	
Edit Date:		***Swat Anms:***	ED FILBIN
Last Edit:		***Swat Fnms:***	FILBIN RANCH DISPOSAL SITE
Region:	5S	***Atyp:***	
County:	50	***Anms:***	ED FILBIN
Wds:	FALSE	***Adep:***	
Msw:	FALSE	***A Street:***	PO BOX 777
Superorder:		***A City:***	WESTLEY
Sc15:	FALSE	***A Zip:***	95387
Swat:	TRUE	***A County:***	
Tpca:	FALSE	***Afon:***	2098943553
Rcra:	FALSE	***Lnms:***	EDWARD FILBIN
Dod:		***Ldep:***	
Rbpo:	SDW	***L Street:***	PO BOX 777
Openpub:	FALSE	***L City:***	WESTLEY
Waste List:		***L State:***	CA
Tot Wmus:	1	***L Zip:***	95387
Secrange:	05S06E09	***L County:***	
Basemer:	MD	***Lfon:***	2098943553
Fcnt:		***Ttwq:***	
Fdep:		***Toxi:***	
F State:	CA	***Cplx:***	
Ffon:		***Wdrs:***	
Ftyp:		***Wtp1:***	
Tonnage:	0	***Wtp2:***	
Fac Comment:			

WMU Details

Wmu ID:	5 500005NUR-01	***G Monitor:***	FALSE
Edit Date:	15-Aug-1989	***S Monitor:***	FALSE
Last Edit:	JHM	***V Monitor:***	FALSE
Wmu Type:	LANDFILL	***G Back:***	0
Wmu Name:	FILBIN RANCH DISPOSAL SITE	***S Back:***	0
Wmustatus:	OPERATING	***V Back:***	0
Wmu Size:	<100	***G Nonback:***	0
Listed:		***S Nonback:***	0

Printed:
Msw: FALSE
Superorder:
Sc15: FALSE
Swat: TRUE
Tpca: FALSE
Rcra: FALSE
Dod: FALSE
Old Class: UNKN
Old Waste:
Old First:
New Class: UNK
New Waste:
New First:
Stat Date:
Cap Year:
Closeplan: FALSE
Township:
Fault Name: UNKNOWN
Fault Distance:
Withquake: FALSE
Type Op:
Gen Com1:
Gen Com2:
Gen Com3:
Gen Com4:
Formation: UNKNOWN
Form Type: UNKNOWN
Form Permit: UNKNOWN
Form Com1:
Form Com2:
Form Com3:
Form Com4:
Liner Com:
Lcrs: FALSE
Lcrs Type:
Lcrs Des: FALSE
Cons Com1:
Cons Com2:
Cons Com3:
Cons Com4:

V Nonback: 0
G Date:
S Date:
V Date:
Perm Test:
Gw Depth: 0
Precip: 0
Site Alt: FALSE
Site Alta: FALSE
Line Alt: FALSE
Line Alta: FALSE
Lcrs Alt: FALSE
Lcrs Alta: FALSE
Composite:
Line Des: FALSE
Liner1: FALSE
Line1 Type:
Liner2: FALSE
Line2 Type:
Liner3: FALSE
Line3 Type:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List: NPL

The U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL) includes the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program, based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. This data includes NPL sites represented as polygons, where available, that can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS), and is limited to those sites where the NPL Status reflects the site is 'Currently on the Final NPL (F)' and/or the 'Site is Part of NPL Site (A)'. These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. As site investigation and remediation progress, OUs may be added, modified or refined. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 6, 2026

National Priority List - Proposed: PROPOSED NPL

Sites proposed by the U.S. Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 6, 2026

Deleted NPL: DELETED NPL

Sites deleted from the U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL). 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. Sites represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 6, 2026

SEMS List 8R Active Site Inventory: SEMS

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the EPA's Facility Registry Service map tool. This data may also include applicable sites represented as polygons sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS), and is limited to those sites where the NPL Status reflects the site is 'Not on the NPL (N)' , 'Removed from Proposed (R)', and/or 'Pre-Proposal Site (S)'. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jul 5, 2026

SEMS List 8R Archive Sites: SEMS ARCHIVE

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file. This data may also include applicable sites represented as polygons sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS), and is limited to those sites where the NPL Status reflects the site is 'Not on the NPL (N)' , 'Removed from Proposed (R)', and/or 'Pre-Proposal Site (S)'. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jun 29, 2026

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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 this site on the National Priorities List (NPL). This 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 a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Aug 9, 2026

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. This database includes Non-Corrective Action sites that have indicated engagement in the treatment, storage, or disposal of hazardous waste which requires a RCRA hazardous waste permit.

Government Publication Date: Aug 9, 2026

RCRA Generator List: RCRA LQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste. This list also includes RCRAInfo sites that have notified as LQGs that do not have a registered Site Manager or Certifier in RCRAInfo.

Government Publication Date: Aug 9, 2026

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month. This list also includes RCRAInfo sites that have notified as SQGs that do not have a registered Site Manager or Certifier in RCRAInfo.

Government Publication Date: Aug 9, 2026

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Aug 9, 2026

RCRA Non-Generators: RCRA NON GEN

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Aug 9, 2026

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Aug 9, 2026

Federal Engineering Controls-ECs: FED ENG

List of Engineering controls (ECs) made available by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Jun 29, 2026

Federal Institutional Controls- ICs: FED INST

List of Institutional controls (ICs) made available by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Jun 29, 2026

Land Use Controls Information System: LUCIS

The Land Use Controls Information System (LUCIS) database is sourced from the U.S. Department of the Navy (DON). This data contains information for former Base Realignment and Closure (BRAC) properties across the United States. DON's BRAC office was tasked with tracking certain base closures while requiring the prevention of risks to human health and the environment of those properties with LUCs in place. Regarding currently available LUC Sites data, the sites listing is limited to centroid point locations for the overall installation property boundaries. Formerly obtained LUC Sites data may reflect site details that applied previously for a BRAC property.

Government Publication Date: Jun 13, 2024

Institutional Control Boundaries at NPL sites: NPL IC

These boundaries of Institutional Control areas at sites on the U.S. Environmental Protection Agency's (EPA) National Priorities List (NPL), or as Proposed or Deleted, are sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). The EPA's NPL includes the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes.

Government Publication Date: Jul 6, 2026

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jun 21, 2026

Brownfields Properties: FED BROWNFIELDS

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. This list of Brownfields Properties is provided by the United States Environmental Protection Agency (EPA) and is sourced from the Cleanups in My Community (CIMC) web application. The brownfields data are reported by grant recipients through the EPA's Assessment, Cleanup and Redevelopment Exchange System (ACRES). Many properties meet the definition of a brownfield but are not funded by the EPA's program. Such properties may instead be supported by state or local governments, private organizations, or nonprofit entities.

Government Publication Date: Mar 31, 2026

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. The list includes FRP facilities sourced from the EPA FOIA office and from previously available Homeland Infrastructure Foundation-Level Data (HIFLD) file/s. Disclaimer: Per the EPA FOIA Office, the verification process for current requested FRP data is undergoing review and revision, and any similar reporting will be made public in Fiscal Year 2027. For this reason, the latest available FOIA file may be incomplete.

Government Publication Date: Jun 1, 2025

Delisted Facility Response Plans: DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Jun 1, 2025

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

This list of petroleum refineries is sourced from the U.S. Energy Information Administration (EIA), Refinery Capacity Report. The listing includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year. The geographic area the report covers is the 50 States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam, and other U.S. possessions. Per the EIA, the facility location data represents the approximate location based on research of publicly available information from sources such as Federal agencies, company websites, and satellite images on public websites.

Government Publication Date: Oct 31, 2024

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from Oak Ridge National Laboratory hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

Government Publication Date: Jun 5, 2025

LIEN on Property: SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Jun 29, 2026

Superfund Decision Documents: SUPERFUND ROD

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Jul 30, 2026

State

State Response Sites: RESPONSE

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database serves a purpose similar to that of the federal NPL, functioning as a state-level counterpart for prioritizing cleanup efforts at hazardous substance release sites.

Government Publication Date: Aug 6, 2026

EnviroStor Database: ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database serves a purpose similar to that of the federal Superfund Enterprise Management System (SEMS), functioning as a state-level counterpart for tracking potential hazardous substance release sites.

Government Publication Date: Aug 6, 2026

Delisted State Response Sites: DELISTED ENVS

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Aug 6, 2026

Solid Waste Information System (SWIS): SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Aug 20, 2026

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels: SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit, sourced from the California Environmental Protection Agency (CalEPA) Cortese List data resources. Per this CalEPA site listing, Regarding Government Code section 65962.5(c)(2), because Regional Water Board review of Solid Waste Assessment Test (SWAT) reports pursuant to Water Code section 13273 has been completed, the Water Board will not add sites going forward.

Government Publication Date: Feb 27, 2026

Waste Management Unit Database: WMUD

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

Government Publication Date: Jan 1, 2000

EnviroStor Hazardous Waste Facilities: HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Aug 6, 2026

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report: SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Construction and Demolition Debris Recyclers: C&D DEBRIS RECY

This listing of Construction and Demolition Debris Recyclers is maintained by the California Integrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.

Government Publication Date: Jun 20, 2018

Recycling Centers: RECYCLING

This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Aug 20, 2026

Listing of Certified Processors: PROCESSORS

This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Jul 21, 2026

Listing of Certified Dropoff, Collection, and Community Service Programs: CONTAINER RECY

This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Aug 26, 2026

Land Disposal Sites: LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Aug 19, 2026

Leaking Underground Fuel Tank Reports: LUST

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Government Publication Date: Aug 19, 2026

Delisted Leaking Storage Tanks: DELISTED LST

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

Government Publication Date: Aug 19, 2026

Permitted Underground Storage Tank (UST) in GeoTracker: UST

List of Permitted Underground Storage Tank (UST) sites, Single Walled UST sites, and Abandoned UST sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: May 17, 2026

Proposed Closure of Underground Storage Tank Cases: UST CLOSURE

This listing includes Proposed Closure of Underground Storage Tank (UST) Cases which are being considered for closure by either the State Water Resources Control Board at a Future Board Meeting or the Executive Director that have been posted for a 60-day public comment period, and Closure of UST Cases with Closure Denials and Approved Orders. The lists are provided by the California Water Boards.

Government Publication Date: Jul 13, 2026

Historical Hazardous Substance Storage Information Database: HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Statewide Environmental Evaluation and Planning System: UST SWEEPS

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB).

Government Publication Date: Oct 1, 1994

Aboveground Storage Tanks: AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

SWRCB Historical Aboveground Storage Tanks: AST SWRCB

A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).

Government Publication Date: Dec 1, 2007

Oil and Gas Facility Tanks: TANK OIL GAS

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Government Publication Date: Jun 16, 2026

Delisted Storage Tanks: DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Jul 21, 2026

California Environmental Reporting System (CERS) Tanks: CERS TANK

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. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials. This data also includes military underground storage tank sites sourced from the CalEPA's Water Boards' GeoTracker system.

Government Publication Date: May 20, 2026

Delisted California Environmental Reporting System (CERS) Tanks: DELISTED CTNK

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

Government Publication Date: May 20, 2026

Historical Hazardous Substance Storage Container Information - Facility Summary: HIST TANK

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in the 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions: LUR

The Department of Toxic Substances Control (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 land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Aug 6, 2026

CALSITES Database: CALSITES

This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

Government Publication Date: May 1, 2004

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions: HLUR

The Department of Toxic Substances Control (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.

Government Publication Date: Feb 18, 2021

Deed Restrictions and Land Use Restrictions: DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Aug 19, 2026

Voluntary Cleanup Program: VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Aug 6, 2026

GeoTracker Cleanup Program Sites: CLEANUP SITES

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Aug 19, 2026

Delisted Cleanup Program Sites: DELISTED CLEANUP

A list of Cleanup Program sites which were once included - and have since been removed from - the list of Cleanup Program Sites in GeoTracker. GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Government Publication Date: Aug 19, 2026

Delisted County Records: DELISTED COUNTY

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Jul 27, 2026

Delisted County Tanks: DELISTED COUNTY TANK

Storage Tank records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Jul 24, 2026

Delisted County Leaking Tanks: DELISTED COUNTY LTANK

Leaking Storage tank records removed from county or CUPA databases.

Government Publication Date: Jul 21, 2026

Tribal

Leaking Underground Storage Tanks on Tribal/Indian Lands: INDIAN LUST

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 9, which includes California, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 27, 2026

Underground Storage Tanks on Tribal/Indian Lands: INDIAN UST

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 9, which includes California, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 28, 2026

Delisted Tribal Leaking Storage Tanks: DELISTED INDIAN LST

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 28, 2026

Delisted Tribal Underground Storage Tanks: DELISTED INDIAN UST

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 28, 2026

County

Stanislaus County - CUPA List: CUPA STANISLAUS

The Environmental Resources Department of Stanislaus County maintains a list of Certified Unified Program Agency (CUPA) facilities.

Government Publication Date: Jun 8, 2022

Additional Environmental Record Sources

Federal

On-Scene Coordinator Response Sites: OSC RESPONSE

This list of On-Scene Coordinator (OSC) Response Sites is provided by the U.S. Environmental Protection Agency (EPA). OSCs are the federal officials responsible for monitoring or directing responses to all oil spills and hazardous substance releases reported to the federal government. OSCs coordinate all federal efforts with, and provide support and information to local, state, and regional response communities. An OSC is an agent of either EPA or the U.S. Coast Guard (USCG), depending on where the incident occurs. EPA's OSCs have primary responsibility for spills and releases to inland areas and waters. USCG OSCs have responsibility for coastal waters and the Great Lakes. In general, an OSC has the following key responsibilities during and after a response: Assessment, Monitoring, Response Assistance, and Evaluation. The site listing is made available by the EPA's secure Freedom of Information Act (FOIA) process.

Government Publication Date: Mar 24, 2026

PFAS Greenhouse Gas Emissions Data: PFAS GHG

The U.S. Environmental Protection Agency's (EPA) Greenhouse Gas Reporting Program (GHGRP) collects Greenhouse Gas (GHG) data from large emitting facilities (25,000 metric tons of carbon dioxide equivalent (CO_2e) per year), and suppliers of fossil fuels and industrial gases that results in GHG emissions when used. This dataset is sourced from the EPA through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools, and it includes GHG emissions data for facilities that emit or have emitted since 2010 chemicals identified as PFAS based on EPA's CompTox Chemicals Dashboard lists of PFAS with defined and undefined structures. PFAS emissions data has been identified for facilities engaged in the following industrial processes: Aluminum Production (GHGRP Subpart F), HCFC-22 Production and HFC-23 Destruction (Subpart O), Electronics Manufacturing (Subpart I), Fluorinated Gas Production (Subpart L), Magnesium Production (Subpart T), Electrical Transmission and Distribution Equipment Use (Subpart DD), and Manufacture of Electric Transmission and Distribution Equipment (Subpart SS). Over time, other industrial processes with required GHGRP reporting may include PFAS emissions data and the list of reportable gases may change over time. Note that some regulatory programs have specified chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard.

Government Publication Date: May 18, 2026

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Jul 1, 2026

Toxics Release Inventory (TRI) Program: TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. This database includes TRI Reporting Data for calendar years 1987 through 2024.

Government Publication Date: Nov 5, 2025

PFOA/PFOS Contaminated Sites: PFAS NPL

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain 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. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

Government Publication Date: Mar 30, 2026

Federal Agency Locations with Known or Suspected PFAS Detections: PFAS FED SITES

This site list of Federal Agency Locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS) is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. The EPA outlines that these data are gathered from several federal entities, such as the federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration (NASA), Department of Transportation (DOT), and Department of Energy (DOE). The dates this data was extracted for the PFAS Analytic Tools range from 2021 to 2025 per agency entity dataset. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Dec 15, 2025

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the PFAS Project Lab, part of the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map by the PFAS-REACH team, credited to PFAS Project Lab, Silent Spring Institute, and PFAS Exchange. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: https://pfasproject.com/pfas-sites-and-community-resources/

Government Publication Date: Aug 1, 2025

National Response Center PFAS Spills: PFAS ERNS

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam, "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Jul 20, 2026

PFAS NPDES Discharge Monitoring: PFAS NPDES

This list of National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) permitted facilities, with required monitoring for Per- and Polyfluoroalkyl Substances (PFAS), is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for PFAS, limited to the years 2007 - present. EPA Disclaimer: Currently, fewer 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. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: Mar 30, 2026

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment. This listing includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

PFAS Water Quality Portal Sampling Data: PFAS WATER

This Per- and Poly-Fluoroalkyl Substances (PFAS) Environmental Media Sampling Data is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The Water Quality Portal (WQP), as a cooperative service sponsored by the United States Geological Survey, the EPA, and the National Water Quality Monitoring Council, is 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. Limitations: EPA did not carry out the sampling or testing of a majority of the data in the WQP PFAS dataset. EPA can only speak to the accuracy and completeness of the data from projects like the National Aquatic Resource Surveys for which EPA is the data owner/organization. Data may exist within the file on Quality Assurance Project Plans (QAPPs) and the approving agency of the QAPP, if a QAPP is entered.

Government Publication Date: Feb 2, 2026

PFAS TSCA Manufacture and Import Facilities: PFAS TSCA

The U.S. Environmental Protection Agency (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. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest: PFAS E-MANIFEST

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. 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 Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 25, 2026

PFAS Industry Sectors: PFAS IND

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is provided by the U.S. Environmental Protection Agency (EPA) through its Enforcement and Compliance History Online (ECHO) PFAS Analytic Tools. The dataset was developed from various sources that show which industries may be handling PFAS including: EPA's ECHO records restricted to potential PFAS-handling industry sectors, based on the North American Industry Classification System (NAICS) Codes and Standard Industrial Classification (SIC) Codes associated federal regulatory programs (e.g., Clean Water Act, Clean Air Act, and Resource Conservation and Recovery Act) at the facility level; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training Sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: May 4, 2026

Hazardous Materials Information Reporting System: HMIRS

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

Government Publication Date: Jan 29, 2026

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data 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.

Government Publication Date: Nov 30, 2023

Toxic Substances Control Act: TSCA

The U.S. Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule. The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI). EPA CDR collections occur approximately every four years and reporting requirements change per collection.

Government Publication Date: May 12, 2022

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Mar 26, 2026

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: May 2, 2026

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. This EPA source file tracks facilities that possess NAICS and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Apr 19, 2026

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites which once appeared on - and have since been removed from - the list of drycleaner facilities included in Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. This EPA source file tracks facilities that possess NAICS and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Apr 19, 2026

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is sourced from the USACE's Geospatial FUDS Property Point, FUDS Project Point, and FUDS Property Polygon layers which apply to the Fiscal Year 2024 Inventory. DISCLAIMER: Polygon data are based on preliminary findings, and not all properties currently have polygon data available. This data represents the results of data collection/processing for a specific USACE activity and is in no way considered comprehensive or to be used in any legal or official capacity as presented on this site. The USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein.

Government Publication Date: Apr 15, 2026

FUDS Munitions Response Sites: FUDS MRS

This Munitions Response Sites (MRS) dataset is published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) for Fiscal Year 2024 by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial FUDS MRS data layer. The USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein.

Government Publication Date: Apr 15, 2026

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

This list of flagged pipeline incidents is made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types. Accidents reported on hazardous liquid gravity lines (§195.13) and reporting-regulated-only hazardous liquid gathering lines (§195.15) and incidents reported on Type R gas gathering (§192.8(c)) are not included in the flagged incident file data.

Government Publication Date: Jan 7, 2026

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: May 8, 2026

Surface Mining Control and Reclamation Act Sites: SMCRA

This inventory of land and water impacted by past mining (primarily legacy coal mining operations) is maintained by the U.S. Department of the Interior's Office of Surface Mining Reclamation and Enforcement (OSMRE), as it provides information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) Problems, as well as information on the cost associated with the reclamation of those problems. The data 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. Disclaimer: Per the OSMRE, States and tribes who enter their data into e-AMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: May 7, 2026

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites: LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). The intent of the site location is to provide a general reference point to the site on a national scale. The coordinates of each site point can be the location of a site monument, the centroid of the site boundary, or a general location of the site. This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Jan 9, 2026

Alternative Fueling Stations: ALT FUELS

This list of alternative fueling stations is sourced from the U.S. Department of Energy's (DOE) Alternative Fuels Data Center (AFDC) and National Renewable Energy Laboratory (NREL). The DOE's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Jun 4, 2026

Superfunds Consent Decrees: CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Cases filed since 2010 limited to the following: Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS); and applicable ENRD's Environmental Defense Section (EDS) CERCLA Cases with "Consent" in History Note. CMS may not reflect the latest developments in a case, nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Dec 30, 2025

Air Facility System: AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments: SSTS

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Sep 26, 2025

Polychlorinated Biphenyl (PCB) Transformers: PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Aug 12, 2025

Power Plants: POWER PLANTS

This list of power plants is provided by the U.S. Energy Information Administration (EIA). The listing includes operable electric generating plants in the United States by energy source, originating from the EIA-860, Annual Electric Generator Report; EIA-860M, Monthly Update to the Annual Electric Generator Report; and EIA-923, Power Plant Operations Report. It includes all operable plants by energy source with a combined nameplate capacity of 1 megawatt or more that are operating, are on standby, or out of service for short- or long-term.

Government Publication Date: Jun 5, 2025

Historical Business Activity Risk: HIST RISK

Proprietary list of sites identified as potentially having engaged in business activity that poses a higher-than-normal risk of contamination. Records originate from historical city directories, and are included in this list based on broad business categories Potentially Hazardous Chemical Users and Fuel and Automotive, including but not limited to Dry Cleaners and Fuel Stations, Garages, etc. Inclusion in this listing does not indicate that there is or ever has been contamination; rather, sites are included in this list due to their potential for having engaged in a business activity presenting an elevated risk of contamination. The list was compiled from various city directories including Polks, Millers, Mullin Kille, Interstate Directory, and State Directory Co; spanning roughly 1920s through 1960 depending on information available by city.

Government Publication Date: Jan 1, 1960

NPDES Biosolids Program Permit Holders: NPDES BIOSOLIDS

This Water National Pollutant Discharge Elimination System (NPDES) Biosolids Permits list is sourced from the U.S. Environmental Protection Agency's (EPA) Enforcement and Compliance History Online data. EPA's Integrated Compliance Information System (ICIS) for NPDES includes facility and compliance information for NPDES permits in the ECHO Biosolids facility universe. Per the EPA, when sewage from households and businesses (and sometimes wastewater from industrial dischargers) is sent to a wastewater treatment plant, the liquids are separated from the solids, producing a semi-solid, nutrient-rich product known as "sewage sludge" or "biosolids". The EPA typically uses the term "biosolids" to mean sewage sludge that has been treated to meet the agency's regulatory requirements and is intended to be land applied as a soil conditioner or fertilizer.

Government Publication Date: May 2, 2026

State

PFAS Sampling Locations: PFAS SAMPLING

This data is sourced from the State Water Board's GeoTracker Per- and Polyfluoroalkyl Substances (PFAS) Map tool which contains individual sampling points (i.e., soil boring, groundwater monitoring well, drinking water well for municipal drinking water systems, etc.) or a site location with PFAS analytical data. Includes analytical results that are finalized and submitted electronically by the Responsible Parties via GeoTracker's Electronic Submittal of Information Portal, and after it's accepted by a Regional Water Quality Control Board.

Government Publication Date: Mar 4, 2026

Dry Cleaning Facilities: DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

Delisted Drycleaners: DELISTED DRYCLEANERS

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Aug 3, 2023

Non-Toxic Dry Cleaning Incentive Program: DRYC GRANT

This list of past Non-Toxic Dry Cleaning Incentive Program grant award recipients is provided by the California Air Resources Board (CARB). The program provided grants to eligible dry cleaning businesses to assist them in transitioning away from perchloroethylene (Perc) machines to alternative non-toxic and non-smog forming technologies such as water-based and CO2 cleaning systems. Per the CARB, this program ended in January 2023 and the information is historical.

Government Publication Date: Aug 3, 2023

PFAS GeoTracker Cleanup Sites: PFAS GT CLEANUPS

A list of applicable cleanup sites from the State Water Resources Control Board's (SWRCB) GeoTracker data management system where one or more of the potential contaminants of concern are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA).

Government Publication Date: Aug 19, 2026

PFOA/PFOS Groundwater: PFAS GW

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.

Government Publication Date: May 10, 2026

PFAS Investigations: PFAS INVEST

This list of potential Per- and Polyfluoroalkyl Substance (PFAS) sites is compiled from the California State Water Resources Control Board's (SWRCB) PFAS Investigations Map tool. The SWRCB issued investigative orders, per California Water Code (CWC) Section 13267 and/or 13383, to these sites. Orders were also issued to the public water systems to sample wells in the vicinity of these locations. Military facilities have been identified by the Department of Defense (DOD) as part of their efforts to investigate PFAS per the Defense Environmental Restoration Program (DERP) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The data includes locations for Airports, Chrome Plating Facilities, Landfills, Publicly Owned Treatment Works, Refineries and Bulk Terminals, DOD Facilities, and Monitored Drinking Water Wells being investigated for potential PFAS.

Government Publication Date: Jan 23, 2024

Hazardous Waste and Substances Site List - Cortese: HWSS CORTESE

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the state, local agencies, and developers to comply with the California Environmental Quality Act (CEQA) requirements. It provides information about the location of hazardous materials release sites and is published by the California Department of Toxic Substances Control (DTSC).

Government Publication Date: Apr 29, 2026

Toxic Pit Cleanup Act Sites: TOXIC PITS

The Toxic Pits Cleanup Act (TPCA) list identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. This list was maintained by the State Water Resources Control Board (SWRCB), is not longer maintained, and updates are not planned.

Government Publication Date: Jul 1, 1995

List of Hazardous Waste Facilities Subject to Corrective Action: DTSC HWF

This is a list of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code (HSC), identified by California Department of Toxic Substance Control (DTSC), sourced from the California Environmental Protection Agency (CalEPA) Cortese List data resources. Per this CalEPA site listing, Section 65962.5(a)(1) of the HSC requires the DTSC to compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of these facilities under Section 25187.5. The hazardous waste facilities identified in HSC § 25187.5 are those where DTSC has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment. This is a very small and specific subgroup of facilities and they are not separately posted on the DTSC or CalEPA's website.

Government Publication Date: Nov 19, 2025

EnviroStor Inspection, Compliance, and Enforcement: INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked by the California Department of Toxic Substance Control's (DTSC) EnviroStor data management system.

Government Publication Date: Jun 4, 2026

School Property Evaluation Program Sites: SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Aug 6, 2026

California Hazardous Material Incident Report System (CHMIRS): CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This listing has been made available by the California Governor's Office of Emergency Services (Cal OES).

Government Publication Date: Jul 11, 2025

Historical California Hazardous Material Incident Report System (CHMIRS): HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Handlers from Hazardous Waste Manifest Data: HAZNET

A list of handlers not otherwise classified as Treatment, Storage, Disposal facilities (TSDF) or generators from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Jun 1, 2026

Generators from Hazardous Waste Manifest Data: HAZ GEN

List of handlers listed as having generated waste from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Jun 1, 2026

TSDF from Hazardous Waste Manifest Data: HAZ TSD

List of Treatment, Storage, and Disposal Facilities (TSDFs) from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Jun 1, 2026

Historical Hazardous Waste Manifest Data: HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

DTSC Registered Hazardous Waste Transporters: HW TRANSPORT

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters.

Government Publication Date: May 20, 2026

Registered Waste Tire Haulers: WASTE TIRE

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Jun 28, 2026

California Medical Waste Management Program Facility List: MEDICAL WASTE

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities.

Government Publication Date: Apr 3, 2026

Historical Cortese List: HIST CORTESE

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders: CDO/CAO

This list of Site Cleanup Program (SCP) sites on the Cortese List from the Water Boards is sourced from California Environmental Protection Agency (CalEPA) data resources. Under California Government Code § 65962.5(c)(3), the California State Water Resources Control Board (SWRCB) must compile and update a list of Cease and Desist Orders (CDOs) and Cleanup and Abatement Orders (CAOs) concerning discharges of wastes that are hazardous materials. Because the SWRCB does not always distinguish among order types, the list may also include discharges that do not contain hazardous materials, such as domestic sewage, food-processing waste, or sediment. In 2026, CalEPA's Department of Toxic Substances Control (DTSC) replaced the former CDO and CAO site listings with this named SCP list.

Government Publication Date: Mar 5, 2026

California Environmental Reporting System (CERS) Hazardous Waste Sites: CERS HAZ

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: May 20, 2026

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites: DELISTED HAZ

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

Sites in GeoTracker: GEOTRACKER

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Aug 19, 2026

Mines Listing: MINE

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: May 15, 2026

Recorded Environmental Cleanup Liens: LIEN

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

Government Publication Date: Feb 5, 2026

Waste Discharge Requirements: WASTE DISCHG

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Government Publication Date: Aug 19, 2026

Toxic Pollutant Emissions Facilities: EMISSIONS

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program.

Government Publication Date: May 15, 2026

Clandestine Drug Lab Sites: CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Dec 13, 2024

Tribal

No Tribal additional environmental record sources available for this State.

County

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX E

CREDENTIALS

Audra Bastress

Assistant Scientist

PROFESSIONAL EXPERIENCE

Audra Bastress is an Environmental Assistant Scientist at Terracon's Lodi Office. She is responsible for writing and executing Phase I Environmental Site Assessments (ESAs) reports, performing site reconnaissances, and assisting regulatory compliance projects.

PROJECT EXPERIENCE

Phase I Environmental Site Assessments

Audra has performed site reconnaissance, prepared reports, and reviewed environmental data and records for Phase I ESAs. She has performed the necessary tasks to evaluate past and/or present land use and locate possible sources of hazardous materials/wastes and impacts to a property. Tasks have included reviewing environmental records, including aerial photographs, topographical maps, and historical city directories, as well as performing site visits and conducting personnel interviews.

Regulatory Compliance

Audra has assisted with compliance projects relating to spill prevention and stormwater. She has performed site visits and prepared Spill Prevention, Control, and Countermeasure (SPCC) plans, Hazardous Material Business Plans (HMBP), and Ad Hoc reports.

EDUCATION

Bachelor of Science, Geology, University of California, Davis, 2024

CERTIFICATIONS

Geologist-in-Training (California) Registration No. 2155

40-Hour OSHA Hazardous Waste Operations and Emergency Response

WORK HISTORY

Terracon Consultants Inc., Environmental Assistant Scientist, February 2026 - Present

Institute of the Environment, University of California, Davis – Undergraduate Research Assistant, March 2023 – June 2024

Department of Earth and Planetary Sciences, University of California, Davis – Field Assistant, October 2022 – June 2023



Carl A. Parten

SENIOR ENVIRONMENTAL CONSULTANT

EDUCATION

Bachelor of Science, Geology, Sul Ross State University, Alpine, Texas, 1994

REGISTRATIONS

Licensed Professional Geoscientist (P.G.), I.D. # 221, Texas Board of Professional Geoscientists 2003 (current)

CERTIFICATIONS

40 Hour OSHA Hazardous Waste Site & Waste Management Training

PROFESSIONAL EXPERIENCE

Mr. Parten has over 35 years of experience in environmental consulting in multiple regional regulatory districts throughout the United States. His professional experience includes comprehensive site investigations and remediation studies for Industrial and Hazardous Waste sites, municipal solid waste landfill sites and underground storage tank (UST) facilities.

He has successfully managed and obtained regulatory closure of over 30 Voluntary Cleanup Program (VCP) sites and leaking underground storage tank (LUST) facilities, and coordinated UST removal and closure for numerous facilities in multiple states throughout the United States. Mr. Parten continues to serve as a technical lead with Terracon and he possesses extensive experience in the installation of monitor wells, aquifer characterization, sensitive receptor surveys, risk-based assessments, vapor intrusion (VI) evaluations, and soil-gas assessments. Additionally, he has extensive experience in comprehensive soil and groundwater investigations on industrial facilities and municipal solid waste (MSW) landfill facilities, including evaluation of landfill gas/methane impacts. He has prepared and implemented corrective action work plans for remediation of chlorinated hydrocarbons at dry cleaner facilities and petroleum hydrocarbons at LUST facilities, MSW landfill facilities, and managed and implemented groundwater pump and treat, non-aqueous phase liquid (NAPL) recovery, and duel-phase vapor extraction systems for the recovery of petroleum hydrocarbons. Additionally, Mr. Parten developed work plans and implemented the remediation of heavy metals and poly-nuclear aromatic hydrocarbons (PAHs).

PROJECT EXPERIENCE

FEDERAL

- Edwards Air Force Base – Mojave, CA
- Riverside National Cemetery Phase 6 Development – Riverside, CA
- UPRR IWTP - Commerce – Commerce, CA

MUNICIPAL

- CGC Parking Garage - Project #10.10.1379 – San Bernardino, CA
- Contra Costa County Old Jail UST Removal – Martinez, CA
- KZF: Military Working Dog Compound Renovation - Vandenberg Air Force Base, CA
- Riverside Juvenile Court 33-N1 – Riverside, CA
- Vernon Data Center – Vernon, CA

TRANSPORTATION

- Barton Road Bridge Removal & Road Construction - Colton, CA
- BNSF High Speed Rail Track Grade Separations– Fullerton, CA
- City of SB: Pavement Thickness Assessment - San Bernardino, CA
- Euclid Avenue Monument & Tree Installation - Ontario, CA
- Hanford Site – Hanford/Shirley CA, CA
- M&O Yard Stockpile Sampling – Lodi, CA
- Mt. Vernon Bridge Replacement - San Bernardino, CA
- Mt. Vernon Viaduct Design Build Project - San Bernardino, CA
- ODFL Salinas - Salinas, CA
- Olivewood Memorial Park Access Road - Riverside, CA
- PG&E Stockton Hydrovac – Stockton, CA
- Sabre Building - Victorville, CA
- Stanfield Cutoff Road - NES-MI/ISA (H15055) - Big Bear, CA
- Year 2 CIP Streets - Grand Terrace, CA

Carl A. Parten (continued)

UTILITIES & ENERGY

- Over thirty energy sector (solar, wind, transmission) projects across California

COMMERCIAL, RESTAURANT AND RETAIL

- Hundreds commercial retail and restaurant businesses across California

HOSPITALS AND MEDICAL OFFICE BUILDINGS

- Over a hundred medical office buildings and hospitals across California

WAREHOUSE, INDUSTRIAL, AND DISTRIBUTION

- Hundreds of commercial, industrial and distribution facilities across California

MULTI-FAMILY AND SENIOR COMMUNITIES

- Over thirty multi-residential and senior living centers across California

AGRICULTURE AND VACANT LAND DEVELOPMENT

- Various commercial and retail developments, over 100 sites across California

WASTE MANAGEMENT

- Beaumont Facility – Beaumont, CA
- Kearny- Nu-Way Live Oak Landfill - Irwindale, CA
- Nu-Way Live Oak Landfill - * Confidential *, * Confidential
- RAMCO Facilities – Escondido, Rialto, & Sun Valley, CA *

TELECOMMUNICATIONS

- 89331 - Keller Peak - Running Springs, CA
- Aloha Towers - Bakersfield, CA - Bakersfield, CA
- Cell Ventures- Industrial Way - Los Angeles, CA
- Existing Telecommunication Site - Lemon Grove, CA
- Gorman Post Road (GBO) - Gorman, CA
- Gravenstein Stony – Cotati, CA
- K2 Towers III - Burbank, CA
- Valley Public Safety Ops Ctr Needs Assessment - San Bernardino, CA
- Verizon Wireless – over 100 sites across California

Joe Rosenbery, PG

Environmental Department Manager

PROFESSIONAL EXPERIENCE

Joe is an accomplished leader in the environmental services sector, with a proven track record spanning over 9 years. He has expertise in managing Phase I/II Environmental Site Assessments (ESAs), comprehensive site investigations, groundwater monitoring, and environmental remediation. Joe possesses exceptional skills in overseeing profit and loss responsibilities, implementing safety protocols, driving business development, and fostering strategic growth. His proficiency in team management, executing projects, and ensuring compliance with industry regulations is unparalleled. Joe has advanced degrees in Geographic Information Science and Geology, as well as extensive certifications in geology and safety. He has provided various types of environmental consulting services across various project types including groundwater remediation, hazard mitigation for land use changes, soil gas investigations, import soil classification, underground storage tank removal, leaking underground storage tank investigations, landfill closure investigations, advances spatial modeling, and terrain analysis using unmanned aerial systems and photogrammetric modeling.

PROJECT EXPERIENCE

- Evelyn Costa Elementary School, Lammersville Unified School District, Mountain House, California
- Waste Discharge Compliance support, Oak Ridge Winery, Lodi, California
- Former Winters Landfill Closure, City of Winters, California
- Waste Discharge Compliance Support, Consumnes River Elementary School, Elk Grove Unified School District, Sloughhouse, California
- Preliminary Environmental Assessment - Sierra College, Rocklin, California
- Mineral Resources Remoteness Opinion, various sites in Mojave & Colorado Desert Preserves, Imperial/Riverside/San Bernardino/Kern Counties, California
- Naturally Occurring Asbestos Study, Blackstone, El Dorado Hills, California
- Soil Remediation for Residential Land Conversion, Silberstein Property, Folsom, California
- Soil and Groundwater Management Plan, Former Titan 1A Missile Site, Lincoln, California
- Precipitated Calcium Carbonate removal, former Spreckels Sugar Company, Woodland, California
- Soil and Groundwater Phase II, Embassy Suites, Davis, California
- Pilot Test for New Municipal Well, Tokay Water District, Sacramento, California
- Site Classification In Support Of Land Use Change, Brennan's Point, Newcastle, California

EDUCATION

Master of Science, Geographic Information Science and Technology, University of Southern California

Master of Science, Geology, California State University, Sacramento

Bachelor of Arts, Geology, Humboldt State University

REGISTRATIONS/ CERTIFICATIONS

Registered Professional Geologist: California No. 9420

PROFESSIONAL TRAINING

FAA Part 107 UAS Licensed

40 Hour HAZWOPER

10 Hour OSHA Training

AFFILIATIONS

CGIA, AEG

- Soil and Groundwater Evaluation for Land Use Change, SierraPine, Rocklin, California
- Underground Storage Tank Closure, 2801 K Street, Sacramento, California
- Underground Storage tank removal and closure, City of Turlock, California
- Landfill Waste Classification, Berry Street Landfill, Roseville, California
- Aerial image capture and Terrain Modeling, OES Base camp, Camp Fire Response, Paradise, California
- Soil and Groundwater Investigation, Tracy Hills School Site, Tracy, California
- Abandoned Mine Lands Assessment, Eclipse Mine, Grass Valley, California
- WDR Compliance Review, Chico Greenwaste Processing Facility, Chico, California

TECHNICAL MEMORANDUM

To: Tyler Ott, Mid Valley Power

From: Jessie Fan, ENV SP and Ciara Anderson

Date: October 19, 2026

Subject: Hondeville Energy Center Project – Transportation Assessment Technical Memorandum

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Purpose

The purpose of this memorandum is to evaluate transportation impacts as a result of the Hondeville Energy Center Project (Project), located in unincorporated Stanislaus County, California.

Project Location

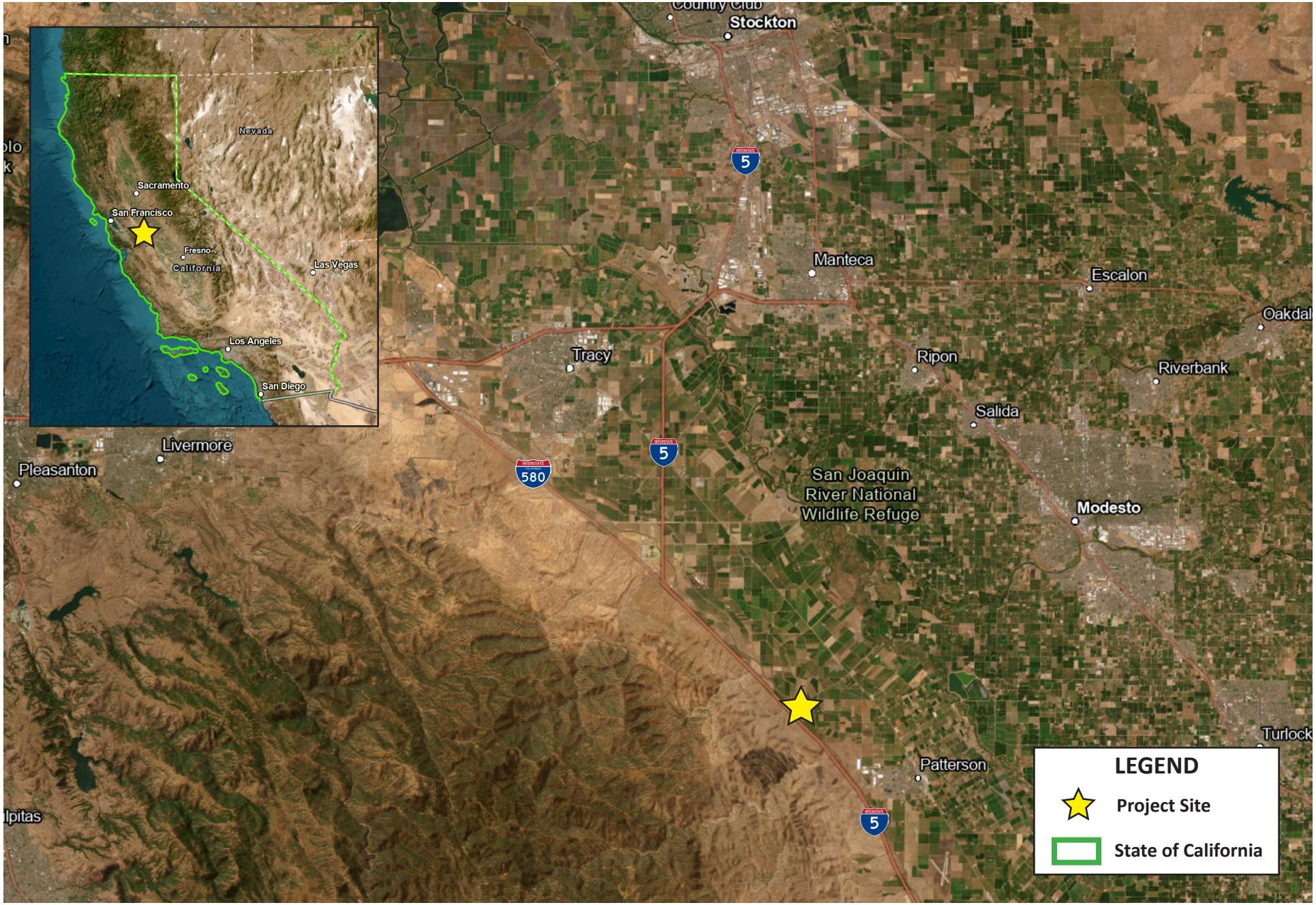
The Project is located near the community of Westley in unincorporated Stanislaus County (County) at 3348 Howard Road (refer to **Figure 1: Regional Vicinity Map**). The Project would be developed on an approximately 738.62-acre Project site comprised of 13 parcels as shown in **Table 1: Project Parcels**, below:

Table 1: Project Parcels

Parcel No.[1]	APN	Approximate Size
Parcel 1	021-015-021	38.39 acres
Parcel 2	021-015-025	40.09 acres
Parcel 3	021-015-024	40.20 acres
Parcel 4	021-015-026	60.81 acres
Parcel 5	021-015-023	40.50 acres
Parcel 6	021-013-018	12.19 acres
Parcel 7	021-013-020	65.00 acres
Parcel 8	021-013-001	187.00 acres
Parcel 9	021-007-008	21.00 acres
Parcel 10	021-007-009	97.62 acres
Parcel 11	016-037-038	44.10 acres
Parcel 12	016-037-039	49.20 acres
Parcel 13	016-037-037	42.52 acres
Total Acreage	**-**	**738.62 acres**

Note:
1. See **Figure 2: Local Vicinity Map** for Parcel No. labels.

The Project site is broken into three primary areas consisting of the southern portion, central portion and northern portion (refer to **Figure 2: Local Vicinity Map**).



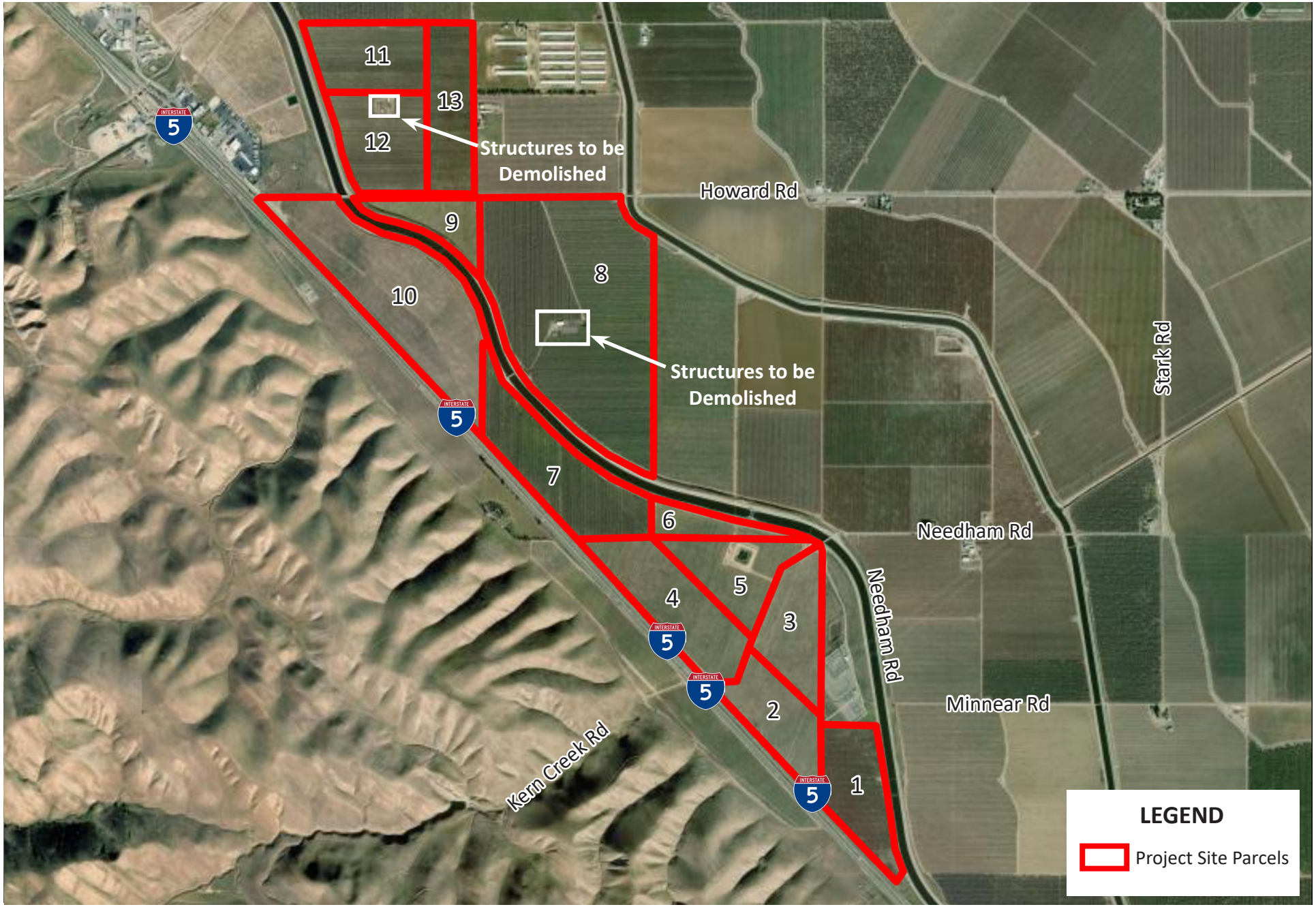
Source: ESRI 2025

Figure 1: Regional Vicinity Map

Hondeville Energy Center Project

Not to scale

Kimley»Horn



Source: ArcGIS Pro, 2026

Figure 2: Local Vicinity Map

Hondeville Energy Center Project

Not to scale

Kimley»Horn

The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east. The Project site is primarily surrounded by rural, agricultural land.

Existing Conditions

The existing uses on the Project site include active agricultural operations with no physical structures other than a modular home, agricultural structure, and a small solar array on Parcel 8 and a small structure/mobile home and outdoor vehicle/equipment storage area on Parcel 12. The Stanislaus County General Plan 2015 (General Plan) designates all 13 parcels as Agriculture, and the County's Zoning Ordinance zoned the parcels as General Agriculture – 40 acres.

According to the California Department of Transportation (Caltrans) Traffic Census Program, I-5 north and south of Ingram Creek at Howard Road (0.4 miles from the northern corner of the Project site) carried approximately 51,000 vehicles per day or 4,650 peak hour trips in 2024.[1] I-5 is a four-lane freeway facility with a level of service (LOS) C capacity of 1,680 passenger cars per hour per lane (pc/hr/ln) according to Caltrans Guide for The Preparation of Traffic Impact Studies (December 2002). As a four-lane freeway, I-5 has a capacity of 6,720 (4 lanes x 1,430) pc/hr.

The intersection of Ingram Creek Road and Howard Road includes a four-way stop northwest of the Project site. The adjacent intersection of Ingram Creek Road and I-5 provides 4 approximately 1000-foot acceleration lanes for traffic entering or exiting I-5 in both directions. This segment of I-5 is generally free-flowing, as indicated by a lack of traffic signals or public transit facilities. Existing peak hour traffic on both Ingram Creek Road and Howard Road is anticipated to be low and thus traffic operations are expected to be acceptable.

Project Description

The Project would include the development of a utility-scale single-axis tracking solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility. The single-axis tracking solar PV electricity generation (solar panel) component of the Project would be sized to produce 130 megawatt alternating current (MWac). The Project would also construct two 34.5 kilowatt (kW) overhead lines in a single crossing location across the California Aqueduct to interconnect the southern and central portions of the Project site and one or two 34.5 kW underground high voltage distribution lines in a single crossing location to interconnect the central and northern portions of the Project site.

The BESS component of the Project would be comprised of lithium-ion battery modules housed in racks and housed within non-walk-in outdoor enclosures (BESS containers) on Parcel 1 on the southernmost portion of the Project Site. The BESS containers would be built in a factory setting and transported to the site and installed on dedicated foundations. The initial BESS installation would

[1] Annual Average Daily Traffic (AADT) estimates back and ahead of the location differ, so the larger estimate is conservatively used.

include approximately 67 BESS containers and would be capable of charging and discharging up to 160 MWac/320 megawatt-hours (MWh). Each BESS container would be approximately 29 feet in length, 9.5 feet in height, 7 feet wide and contain the integrated battery modules, power control system (PCS), as well as heat, fire protection, and safety management systems, including electrical and mechanical controls; ventilation systems; heating, ventilation, and air condition (HVAC) system; fire alarm detection; and heat management systems. Low voltage cables (480v) from the BESS containers would connect the low-profile pad-inverter/transformers located adjacent to each BESS container in a skid configuration. 34.5kV medium voltage (MV) cables would connect the BESS transformers to MV switchgear (34.5kV) prior to going to the Project 34.5KV to 115kV substation.

Project Trip Generation

Project Construction

Project construction activities generally fall into three main categories: (1) site preparation and demolition; (2) grading; and (3) construction/installation. Project pre-construction site activities would include demolition of the existing structures on the Project site and removal of crops and vegetation. Project construction is expected to commence as one phase over an 18-month period beginning in May 2027 and completing in October 2028. The primary site access point and laydown yard during construction for all circulation and parking will be off Howard Road for all portions of the Project site.

Approximately 120 cubic yards of soil would be exported to Kettleman Hills Facility as part of a Soil Management Plan. The remainder of the earthwork (approximately 219,880 cubic yards) would be balanced on-site. It is anticipated that non-potable or on-site surface or ground water would be required for common construction-related purposes included but not limited to dust suppression, soil compaction, and grading. Water during construction will be drawn from the on-site agricultural water wells or surface water pumps.

The on-site construction workforce is expected to peak at approximately 100 individuals; however, the average daily workforce on-site is expected to be between 5 and 25 construction, supervisory, support, and construction management personnel. Construction would primarily occur during daylight hours between 7:00 a.m. and 6:59 p.m. pursuant to the County's noise standards provided in Chapter 10.46, as required to meet the construction schedule. Any construction work performed outside of the normal work schedule would be subject to pre-approval by the County.

Table 2: Estimated Project Construction Trip Generation provides a summary of estimated Project construction-related trips.

Table 2: Estimated Project Construction Trip Generation

Phase	Description	Quantity	Duration[1]	Total Daily Trips[2]
Demolition	Employees	5 – 25 Employees	5 Days	15.00
Demolition	Truck Hauling	15,000 sf Building Demolition	5 Days	34.60
Demolition	**Total**	**-**	**5 Days**	**49.60**
Site Preparation	Employees	5 – 25 Employees	23 Days	17.50
Site Preparation	**Total**	**-**	**23 Days**	**17.50**

Grading	Employees	5 – 25 Employees	131 Days	20.00
Grading	Truck Hauling	120 cy Soil Export	131 Days	0.11
Grading	**Total**	**-**	**131 Days**	**20.11**
Construction	Employees	100 Peak Employees	204 Days	200.00
Construction	**Total**	**-**	**204 Days**	**200.00**
Pole Installation	Employees	5 – 25 Employees	12 Days	25.00
Pole Installation	**Total**	**-**	**12 Days**	**25.00**

sf = square feet; cy = cubic yards

Notes:

1. Duration refers to the number of working days (Monday – Friday), not calendar days.
2. Daily trip rates for truck hauling/delivery were estimated in CalEEMod 2022.1 based on demolition and soil export volumes, as part of the *Air Quality and Greenhouse Gas Analysis for HEC Project* prepared for the Project by Elevated Entitlements.

During all construction activities, a peak of 100 employees was assumed to be on-site. As shown in **Table 2**, demolition is estimated to generate approximately 50 daily trips, including 35 daily trips exporting 15,000 square feet of building demolition material, for approximately 5 working days. Site preparation is estimated to generate approximately 18 daily trips for approximately 23 working days. Grading is estimated to generate approximately 20 daily trips, including less than one daily trip exporting 120 cubic yards of soil export to Kettleman Hills Facility, for approximately 131 working days. Construction is estimated to generate up to 200 daily trips for approximately 204 working days. Pole installation is estimated to generate approximately 25 daily trips for approximately 12 working days.

The *Stanislaus County General Plan* (2015) Circulation Element established the following criteria for analyzing traffic impacts:

Policy 2.1 The County shall maintain LOS D or better for all County roadways (Daily LOS) and LOS C or better at intersections (Peak Hour LOS), except, within the sphere of influence of a city that has adopted a lower level of service standard, the City standard shall apply. The County may allow either a higher or lower level of service standard for roadways and intersections within urban areas such as Community Plan areas, but in no case shall the adopted LOS fall below LOS D.

With a maximum of approximately 200 additional daily vehicles during construction, the total peak hour volume on I-5 during construction would not exceed 4,850.[2] This translates to a volume to capacity ratio of 0.7 (4,850 / 6,720) which would represent an acceptable level of service (i.e., LOS C or better). Daily traffic volumes on Howard Road are anticipated to be very low since this roadway primarily serves nearby facilities and the community of Westley. Traffic associated with each of the construction phases is considered temporary and is not expected to negatively impact the current operations of the surrounding roadway network. Therefore, the additional traffic during construction is not expected to negatively impact existing traffic operations near the Project site.

[2] The 4,850 total peak hour volume is based on 4,650 vehicles during the peak hour plus 200 maximum daily trips.

Project Operation

Operation of the facility will be done remotely through control of inverters and on-site equipment through a secure SCADA fiber network system. Two to four employees are expected to visit the Project site for routine maintenance and washing of PV panels on a up to four times a year for two weeks at a time. On-site wells are proposed to be used for washing the PV panels. Therefore, it is assumed that the Project would generate less than one trip per day on average associated with maintenance and PV panel washing activities. From a daily and peak hour perspective, these trips are considered nominal and would not be expected to impact the existing road network near the Project site, including I-5.

Vehicle Miles Traveled

The Governor's Office of Planning and Research (OPR), now known as the Office of Land Use and Climate Innovation, *Technical Advisory on Evaluating Transportation Impacts in CEQA* (2018) includes a Screening Threshold for Small Projects. Projects that generate or attract fewer than 110 trips per day, absent substantial evidence indicating a significant level of vehicle miles traveled (VMT) or inconsistency with a Sustainable Communities Strategy (SCS) or General Plan, may be assumed to have a less-than-significant transportation impact under CEQA, thereby not requiring a detailed quantitative VMT assessment.

The Project would generate less than 110 daily vehicle trips. As such, the Project would meet the VMT screening criteria, and a detailed quantitative VMT assessment is not required. Therefore, the Project is considered to have a less-than-significant transportation impact.

Summary and Conclusion

Project construction is anticipated to be completed over a period of up to approximately 18 months, during which it was conservatively assumed that a peak of 100 employees would travel to and from the Project site on a daily basis Monday through Friday. This translates to a maximum of approximately 200 daily vehicle trips during Project construction, with the highest volume of construction-related traffic expected during Project demolition hauling activities. The roadway network in the vicinity of the Project site is characterized by free-flowing traffic conditions. Construction traffic is considered temporary (approximately 18 months) and therefore is not expected to permanently and negatively affect existing roadway operations near the Project site.

Project operations would generate less than one new daily vehicle trip on average for maintenance and routine solar panel washing activities. Operation of the facility would be done remotely. Therefore, new daily vehicle trips generated by Project operations would be nominal.

The results of the VMT screening analysis show that the Project meets the screening criteria for small projects (i.e., trip generation threshold). Therefore, the Project is considered to have a less-than-significant transportation impact, and a detailed quantitative VMT assessment is not required.

Air Quality and Greenhouse Gas Analysis for Hondeville Energy Center (HEC) Project

October 21, 2026

Lead Agency:

County of Stanislaus

Prepared for:

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1.0 Introduction

This report presents an assessment of potential air quality and greenhouse gas (GHG) impacts associated with the proposed Hondeville Energy Center Project (the "Project"), a solar photovoltaic (PV) facility. The Project site is located in the community of Patterson, in unincorporated Stanislaus County (County), California at 3348 Howard Road, as shown in Figure 1. The Project site is broken into three primary areas consisting of the southern portion, central portion and northern portion. The southern portion of the Project site is generally bound by Interstate 5 (I-5) to the southwest, the California Aqueduct to the southeast, and Howard Road to the north. The central portion of the Project site is bound by the California Aqueduct to the southwest, the neighboring parcel and the Delta-Mendota Canal to the east, and Howard Road to the north. The northern portion of the Project site is bound by Howard Road to the south, the California Aqueduct to the west, and neighboring parcels to the north and east.

The property consists of approximately 738.62 acres across thirteen parcels. The property Assessor Parcel Numbers are 021-015-021, 021-015-025, 021-015-024, 021-015-026, 021-015-023, 021-013-018, 021-013-020, 021-013-001, 021-007-008, 021-0007-009, 016-037-037, 016-037-038, and 016-037-039. The Stanislaus County General Plan indicates that the parcel is zoned General Agriculture (A-2-40). The A-2-40 zoning district provides sites for renewable energy generation facilities use pursuant to a Use Permit. The Project's energy will add to California's renewable energy supply portfolio and assist in reaching California's goal of 100% renewable energy use in California by 2045.

This report presents an evaluation of conditions at the subject property, thresholds of significance, and potential air quality and GHG impacts associated with construction and operation of the project. GHG impacts will be attributable to emissions associated with construction and operational emissions including traffic and energy use.

2.0 Proposed Project

Existing structures on the Project site include a modular home, agricultural structure, and small solar array on APN 021-013-001, as well as a small structure / mobile home and outdoor vehicle/equipment storage area on APN 016-037-039. Farming across the Project site is sporadic over the year for crop maintenance. Primary harvest seasons are currently May through June for the cherry and apricot crops and August through October for the almond crops. The Stanislaus County General Plan 2015 (General Plan) designates all 13 parcels as Agriculture, and the County's Zoning Ordinance zoned the parcels as General Agriculture – 40 acres. Eight parcels totaling approximately 544.83 acres within the Project site (APNs 021-015-021, 021-013-020, 021-013-001, 021-007-008, 021-007-009, 016-037-038, 016-037-039, and 016-037-037) are enrolled under active Williamson Act Contracts. Additionally, the Project site is in the Del Puerto Water District (Water District) and is currently irrigated by groundwater and limited surface water. Surface water is provided through the Water District and delivered by various surface water pumps and pipelines from the Delta-Mendota Canal as part of the Central Valley Project (CVP). Ground water is supplied by agriculture water wells located across the Project site located on APNs 021-015-021, 021-015-023, 021-013-001, 021-007-008, 016-037-038 and 016-037-039. A new irrigation reservoir is located on APN 021-015-023. While much of the surrounding land is rural, agricultural land, a single-family home is located 100 feet to the east, a truck stop is located approximately 540 feet north. The truck stop includes a gas station, various commercial/retail uses, and a hotel approximately 1,818 feet to the west of the Project site.

Development of the Project would include the demolition of the existing structures on APN 021-013-001and 016-037-039, and the development of a utility-scale single-axis tracking solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility, as shown in Figure 2.

The single-axis tracking solar PV electricity generation (solar panel) component of the Project would be

sized to produce 130 megawatt alternating current (MWac). Depending on the ultimate type of module selected, the total height of the solar panels measured from the ground surface would be between 4 feet and 6 feet when the array is in a flat orientation to 12 feet when the array is in a tilted orientation to the east or west. The solar array is anticipated to have an estimated 40 percent ground coverage ratio (GCR).

The Project would also include the construction of two 34.5 kilowatt (kW) overhead distribution lines in a single crossing location (as permitted by the Department of Water Resources [DWR]) across the California Aqueduct to interconnect with the southern and central portions of the Project site. The distribution line and associated towers on each side of the aqueduct are expected to be approximately 100 feet tall and span the entire Aqueduct. The towers will be constructed on the Project site and will not interfere with or be placed on DWR property or within the DWR right of way. The proposed overhead distribution lines will also be shorter than the existing electric transmission line towers currently on the Project site.

The Project would also include the construction of one or two 34.5 kW underground high voltage distribution lines in a single crossing location (as permitted by Stanislaus County) across Howard Road (County Route J16) to interconnect with the central and northern portions of the Project site. The underground distribution line(s) are expected to be approximately 100 to 200 feet in length and be placed a minimum of 3 to 4 feet below grade. The underground crossing will not interfere with Howard Road.

The BESS component of the Project would be comprised of lithium-ion battery modules housed in racks within non-walk-in outdoor enclosures (BESS containers) on APN 021-015-021 on the southernmost portion of the Project Site. The BESS containers would be built in a factory setting and transported to the site and installed on dedicated foundations. The initial BESS installation would include approximately 67 BESS containers and would be capable of charging and discharging up to 160 megawatts alternating current (MWac)/320 megawatt-hours (MWh). Each BESS container would be approximately 29 feet in length, 9.5 feet in height, and 7 feet wide and contain the integrated battery modules, power control system (PCS), as well as heat, fire protection, and safety management systems, including electrical and mechanical controls; ventilation systems; heating, ventilation, and air condition (HVAC) system; fire alarm detection; and heat management systems. Low voltage cables (480v) from the BESS containers would connect the low-profile pad-inverter/transformers located adjacent to each BESS container in a skid configuration stepping up the BESS system voltage to 34.5kV. 34.5kV medium voltage (MV) cables would connect the BESS transformers to MV switchgear (34.5kV) prior to going to the Project's 34.5KV to 115kV substation.

Lithium-ion BESS systems generally degrade at a rate of 2 to 3 percent per year. In order to maintain the initial BESS capacity over the Project life, new BESS containers will be added every 5 years to the Project. This augmentation schedule will include adding approximately 7 BESS containers in year 5 (16.7 MWac/33.4 MWh), 6 BESS containers in year 10 (14.3 MWac/28.6 MWh), 7 BESS containers in year 15 (16.7 MWac/33.4MWh) and lastly 7 BESS containers in year 20 (16.7 MWac/33.4 MWh) for the initial 25-year BESS life. The initial Project BESS nameplate installation size of 160 MWac/320 MWh and BESS containers for augmentation will result in a total Project BESS nameplate installation size of approximately 225 MWac/450 MWh. While the nameplate BESS system size will increase over time to account for BESS losses, the BESS will never charge or discharge more than 130 MWac over the Project life.

A 250 gallon per minute (GPM) or greater agricultural water well or surface water pump with approximately 20,000 to 30,000-gallon capacity onsite water storage tank(s) will be installed on Parcel 1 near the BESS location for fire protection. A 50-kW standby generator would act as a backup power supply to the Project communications and control house in the substation. Additionally, a 250-kW backup generator would be provided to run the existing on-site agricultural well for fire/water supply. The generator would be Tier 4 emissions rated. A 100-gallon diesel fuel above-ground storage tank would be included as part of the Project's BESS facilities to meet fire safe requirements of having reliable backup power for water supplies.

A 34.5kV to 115kV Project substation would be constructed on APN 021-015-021 to connect the solar PV and BESS Project to the existing adjacent Turlock Irrigation District 115kV Westley substation. The Project substation will include two to three 34.5kV to 115kV transformers in addition to 34.5kV and 115kV breakers and other medium and high voltage equipment. A control center enclosure will also be located on APN 021-015-021 in the substation area. The substation would be approximately 50 feet in height.

Figure 1: Project Location

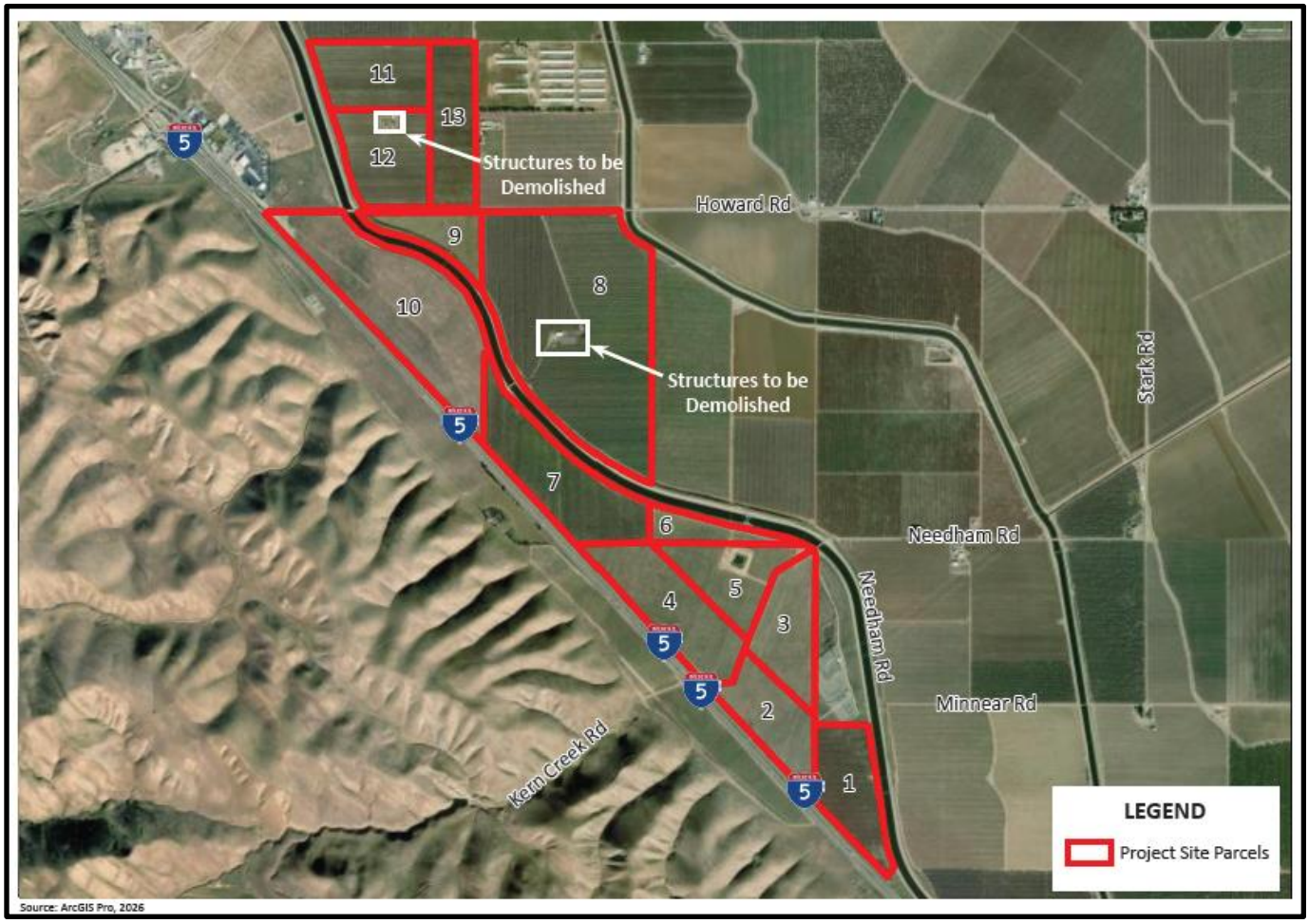
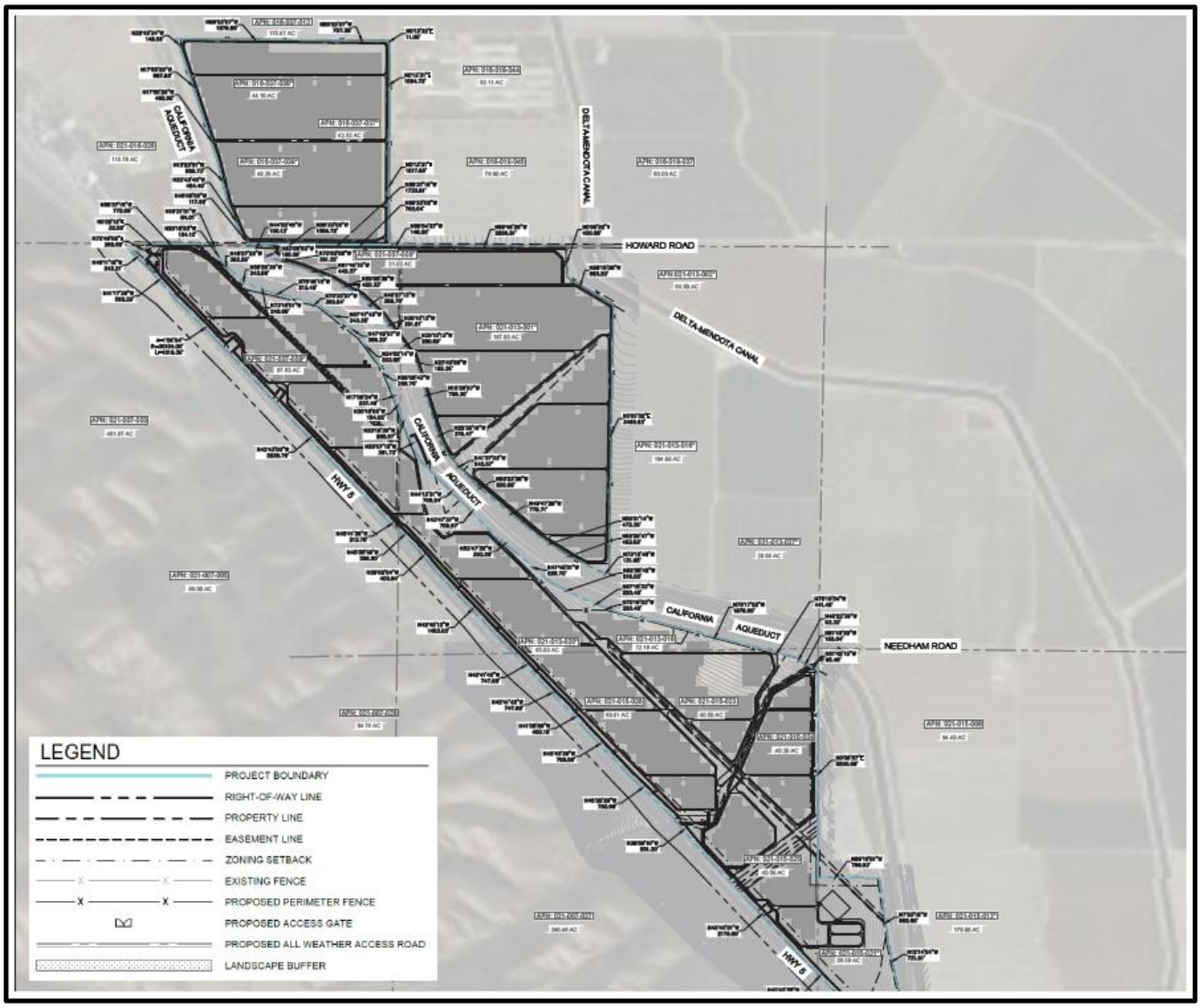


Figure 2: Project Site Aerial



3.0 Regulatory Setting – Air Quality

3.1 Federal Regulation

U.S. Environmental Protection Agency (EPA)

The Federal Clean Air Bill was first adopted in 1967 and periodically amended since then, establishing federal ambient air quality standards. A 1987 amendment to the Bill set a deadline for the attainment of these standards. That deadline has since passed. The other Clean Air Act (CAA) Bill Amendments, passed in 1990, share responsibility with the State in reducing emissions from mobile sources. The U.S. Environmental Protection Agency (EPA) is responsible for enforcing the 1990 amendments.

The CAA and the national ambient air quality standards identify levels of air quality for six "criteria" pollutants, which are considered the maximum levels of ambient air pollutants considered safe, with an adequate margin of safety, to protect public health and welfare. The six criteria pollutants include ozone, carbon monoxide (CO), nitrogen dioxide, sulfur dioxide, particulate matter, and lead.

CAA Section 176(c) (42 U.S.C. 7506(c)) and EPA transportation conformity regulations (40 CFR 93 Subpart A) require that each new RTP and Transportation Improvement Program (TIP) be demonstrated to conform to the State Implementation Plan (SIP) before the RTP and TIP are approved by the Metropolitan planning organization (MPO) or accepted by the U.S. Department of Transportation (DOT). The conformity analysis is a federal requirement designed to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS). However, because the SIP for particulate matter 10 microns or less in diameter (PM_{10}), particulate matter 2.5 microns or less in diameter ($PM_{2.5}$), and Ozone address attainment of both the State and federal standards, for these pollutants, demonstrating conformity to the federal standards is also an indication of progress toward attainment of the State standards. Compliance with the State air quality standards is provided on the pages following this federal conformity discussion. The County is located in a nonattainment area for the 8-hour ozone standard and PM_{10} standard but complies with federal standards.

3.2 State – California Regulation

California Air Resources Board (CARB)

CARB is the agency responsible for coordination and oversight of State and local air pollution control programs in California and for implementing its own air quality legislation called the California Clean Air Act (CCAA), adopted in 1988. CARB was created in 1967 through the merging of the California Motor Vehicle Pollution Control Board and the Bureau of Air Sanitation and its laboratory.

CARB has primary responsibility in California to develop and implement air pollution control plans designed to achieve and maintain the NAAQS established by the EPA. Whereas CARB has primary responsibility and produces a major part of the SIP for pollution sources that are statewide in scope, it relies on the local air districts to provide additional strategies for sources under their jurisdiction. CARB combines its data with all local district data and submits the completed SIP to the EPA. The SIP consists of the emissions standards for vehicular sources and consumer products set by CARB, and attainment plans adopted by the Air Pollution Control Districts (APCDs) and Air Quality Management District's (AQMDs) and approved by CARB.

States may establish their own standards, provided the State standards are at least as stringent as the NAAQS. California has established California Ambient Air Quality Standards (CAAQS) pursuant to California Health and Safety Code (CH&SC) [§39606(b)] and its predecessor statutes.

The CH&SC [§39608] requires CARB to "identify" and "classify" each air basin in the State on a pollutant-by-pollutant basis. Subsequently, CARB designated areas in California as nonattainment based on

violations of the CAAQSs. Designations and classifications specific to the SJVAB can be found in the next section of this document. Areas in the State were also classified based on severity of air pollution problems. For each nonattainment class, the CCAA specifies air quality management strategies that must be adopted. For all nonattainment categories, attainment plans are required to demonstrate a five percent-per-year reduction in nonattainment air pollutants or their precursors, averaged every consecutive three-year period, unless an approved alternative measure of progress is developed. In addition, air districts in violation of CAAQS are required to prepare an Air Quality Attainment Plan (AQAP) that lays out a program to attain and maintain the CCAA mandates.

CARB, in consultation with MPOs, has provided each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. Other CARB duties include monitoring air quality. CARB has established and maintains, in conjunction with local APCDs and AQMDs, a network of sampling stations (called the State and Local Air Monitoring [SLAMS] network), which monitor the present pollutant levels in the ambient air.

Federal and State standards for criteria pollutants are provided in Table 1.

CARB Mobile-Source Regulation

The State of California is responsible for controlling emissions from the operation of motor vehicles in the State. Rather than mandating the use of specific technology or the reliance on a specific fuel, CARB's motor vehicle standards specify the allowable grams of pollutant per mile driven. In other words, the regulations focus on the reductions needed rather than on the manner in which they are achieved.

California Clean Air Act

The CCAA was first signed into law in 1988. The CCAA provides a comprehensive framework for air quality planning and regulation, and spells out, in statute, the state's air quality goals, planning and regulatory strategies, and performance. The CCAA establishes more stringent ambient air quality standards than those included in the Federal CAA. CARB is the agency responsible for administering the CCAA. CARB established ambient air quality standards pursuant to the CH&SC [§39606(b)], which are similar to the federal standards.

Tanner Air Toxics Act

California regulates Toxic Air Contaminants (TACs) primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and has adopted EPA's list of Hazardous Air Pollutants (HAPs) as TACs. Once a TAC is identified, CARB then adopts an Airborne Toxics Control Measure (ATCM) for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technology (BACT) to minimize emissions.

AB 2588 requires that existing facilities that emit toxic substances above a specified level prepare a toxic-emission inventory, prepare a risk assessment if emissions are significant, notify the public of significant risk levels, and prepare and implement risk reduction measures. CARB has adopted diesel exhaust control measures and more stringent emission standards for various on-road mobile sources of emissions, including transit buses and off-road diesel equipment (e.g., tractors, generators).

These rules and standards provide for:

- More stringent emission standards for some new urban bus engines, beginning with 2002 model year engines.
- Zero-emission bus demonstration and purchase requirements applicable to transit agencies
- Reporting requirements under which transit agencies must demonstrate compliance with the urban transit bus fleet rule.

Assembly Bill 1493

AB 1493 (Pavley) enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce greenhouse gases emitted by passenger vehicles and light duty trucks. Regulations adopted by CARB would apply to 2009 and later model year vehicles. CARB estimated that the regulation would reduce climate change emissions from light duty passenger vehicles by an estimated 18 percent in 2020 and by 27 percent in 2030 [Association of Environmental Professionals (AEP) 2007)]. In 2005, the CARB requested a waiver from U.S. EPA to enforce the regulation, as required under the CAA. Even though no waiver had ever been denied over a 40-year period, the then Administrator of the EPA sent Governor Schwarzenegger a letter in December 2007, indicating he had denied the waiver. On March 6, 2008, the waiver denial was formally issued in the Federal Register. Governor Schwarzenegger and several other states immediately filed suit against the federal government to reverse that decision. On January 21, 2009, CARB requested that EPA reconsider denial of the waiver. EPA scheduled a re-hearing on March 5, 2009. On June 30, 2009, EPA granted a waiver of CAA preemption to California for its greenhouse gas emission standards for motor vehicles beginning with the 2009 model year.

Senate Bill 375

SB 375, signed in September 2008 (Chapter 728, Statutes of 2008), aligns regional transportation planning efforts, regional GHG reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPOs) to adopt a sustainable communities strategy (SCS) or alternative planning strategy (APS) that will prescribe land use allocation in that MPO's regional transportation plan. CARB, in consultation with MPOs, has provided each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035.

This law also extends the minimum time period for the regional housing needs allocation cycle from five years to eight years for local governments located within an MPO that meets certain requirements. City or county land use policies (including general plans) are not required to be consistent with the regional transportation plan (and associated SCS or APS). However, new provisions of California Environmental Quality Act (CEQA) incentivize (through streamlining and other provisions) qualified projects that are consistent with an approved SCS or APS, categorized as "transit priority projects."

Executive Order B-30-15

Executive Order B-30-15, which was signed by Governor Brown in 2016, establishes a California greenhouse gas reduction target of 40 percent below 1990 levels by 2030 to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050. Executive Order B-30-15 requires MPO's to implement measures that will achieve reductions of greenhouse gas emissions to meet the 2030 and 2050 greenhouse gas emissions reductions targets.

Table 1: Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3) [8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	--	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10) [9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		--		
Fine Particulate Matter (PM2.5) [9]	24 Hour	--	--	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	--	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	--	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		--	--	
Nitrogen Dioxide (NO_2) [10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	--	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2) [11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	--	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	--		--	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for cetain areas) [11]	--	
	Annual Arithmetic Mean	--		0.030 ppm (for cetain areas) [11]	--	
Lead [12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	--	--	High Volume Sampler and Atomic Absorption
	Calendar Quarter	--		1.5 µg/m^3 (for certain areas)[11]	Same as Primary Standard	
	Rolling 3-Month Average	--		0.15 µg/m^3		
Visibility Reducing Particles [14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride [12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page ...

Source: California Air Resources Board Table of Ambient Air Quality Standards

Footnotes:

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m3 is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m3 to 12.0 µg/m3. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3, as was the annual secondary standard of 15 µg/m3. The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

3.3 Regional - San Joaquin Valley Air Pollution Control District

The San Joaquin Valley Air Pollution Control District (SJVAPCD) is made up of eight counties in California's Central Valley: San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings Tulare and the San Joaquin Valley portion of Kern. The SJVAPCD has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations.

The proposed project is located within the San Joaquin Valley Air Basin (SJVAB) and, therefore, falls under the jurisdiction of the SJVAPCD. In conjunction with the Stanislaus Council of Governments (StanCOG), the SJVAPCD is responsible for formulating and implementing air pollution control strategies. The SJVAPCD has adopted numerous air quality attainment plans that identify measures needed in the Valley to attain increasingly stringent federal standards. The SJVAPCD has also implemented significance thresholds for criteria pollutants, as shown below in Table 2.

Table 2: SJVAPCD Significant Thresholds

POLLUTANT	ANNUAL CONSTRUCTION	ANNUAL OPERATION
NO_x	10 tons / year	10 tons / year
ROG (VOC)	10 tons / year	10 tons / year
PM_{10}	15 tons / year	15 tons / year
$PM_{2.5}$	15 tons / year	15 tons / year
SO_x	27 tons / year	27 tons / year
CO	100 tons / year	100 tons / year

Source: SJVAPCD Significant Thresholds, 2015. https://www.valleyair.org/media/m2ecyxiw/1-cms-format-ceqa-air-quality-thresholds-of-significance-criteria-pollutants.pdf

The SJVAPCD's most recent air quality plans establish a comprehensive air pollution control program leading to the attainment of state and federal air quality standards in the SJVAB, which has been classified as "extreme non-attainment" for ozone, "attainment" for respirable particulate matter (PM_{10}), and "non-attainment" for $PM_{2.5}$, as defined by the Federal Clean Air Act. SJVAPCD's most recent air quality plans are described below:

2006 PM_{10} (respirable particulate matter) Maintenance Plan

The 2006 PM_{10} Maintenance Plan is a continuation of the SJVAPCD's strategy for achieving the NAAQS for PM10. This plan is the SIP revision required as a condition of U.S. EPA approval of the 2003 PM10 Plan. The 2006 PM10 Plan demonstrates attainment at the earliest practical date, implements Best Available Control Measures/Technology (BACM/BACT) for all significant sources of PM_{10} or PM_{10} precursors, provides annual reductions of at least five percent of PM_{10} or PM_{10} precursor emissions, provides quantitative milestones for reasonable further progress, and adopts contingency measures to assure emission reductions are in place of milestones are not met.

2024 Plan for the 2012 Annual $PM_{2.5}$ Standard

The 2024 Plan for the 2012 Annual $PM_{2.5}$ Standard works to develop a strategy to attain the federal health-

based 2012 national ambient air quality standard (standard, or NAAQS) for fine particulate matter ($PM_{2.5}$). The SJVAPCD and CARB build upon comprehensive strategies already in place from previously adopted attainment plans and measures. Key elements of this plan include 1) that significant progress has been made, but additional significant emission reductions are needed, 2) utilization of the latest science and analysis of control measures, 3) planning to achieve the emission reduction by 2017-2030, 4) planning to bring the valley in attainment, 4) planning to improve public health, and 5) prioritizing strong public engagement.

2022 Ozone Plan

The 2022 Plan for the 2015 8-hour Ozone Standard (2022 Ozone Plan) uses extensive research, air quality modeling, and the best available information in developing a strategy to attain the federal 2015 NAAQS for ozone of 70 parts per billion (ppb). The 2022 Ozone Plan demonstrates that the reductions being achieved by the SJVAPCD, and the CARB strategy ensures expeditious attainment of the 2015 8-hour ozone standard by the 2037 attainment deadline. The control strategy included in the 2022 Ozone Plan will reduce NOx emissions by 72% between 2018 and 2037, contributing to the SJVAPCD's progress toward attainment of the 2015 8-hour ozone standard. In addition to the SJVAPCD's strategies, CARB's 2022 State Strategy for the 2022 State SIP Strategy, as incorporated into the 2022 Ozone Plan, includes a number of commitments to reduce emissions from mobile sources, consumer products, pesticides, and primarily-federally and internationally regulated sources.

Rules and Regulations

The following SJVAPCD rules and regulations may apply to the proposed project, but are not limited to:

- **Rule 2010** – Permits Required: Requires an Authority to Construct (ATC) and Permit to Operate (PTO) for any equipment that emits air pollutants.
- **Rule 2201** – New and Modified Stationary Source Review (NSR): Applies to new or modified stationary sources. This requires emission offsets and the best available control technology (BACT)
- **Rule 2280** – Portable Equipment Registration: Applies to portable construction equipment, such as generators and compressors when used for longer than 6 months, and requires registration with SJVAPCD.
- **Rule 8011** – General Requirements: Fugitive Dust Emission Sources. Requires the implementation of fugitive dust regulations to outdoor fugitive dust sources. Operations, including construction operations, must control fugitive dust emissions in accordance with SJVAPCD Regulation VIII.
- **Rule 8021** – Construction, Demolition, Excavation, and Earthmoving Activities: Requires fugitive dust control during construction.
- **Regulation VIII** – Fugitive PM10 Prohibitions: Rules 8011-8081 are designed to reduce PM10 emissions generated by human activity, such as construction and demolition.

3.4 Local - Stanislaus County

Stanislaus Council of Governments (StanCOG)

The StanCOG is a council of city and county governments comprised of the Cities of Ceres, Hughson, Modesto, Newman, Oakdale, Patterson, Riverbank, Turlock and Waterford, and the County of Stanislaus. StanCOG is responsible for regional transportation planning and air quality conformity and prepares and maintains the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), which integrates land use, housing, and transportation planning to reduce vehicle miles traveled (VMT) and associated emissions of criteria pollutants and greenhouse gases.

Stanislaus County General Plan

The 2016 Stanislaus County General Plan provides the policy framework guiding land use, circulation, and environmental protection within the County. The General Plan includes goals and policies aimed to improve air quality and protect public health by reducing emissions from mobile and stationary sources.

The air quality goals and policies described in the 2015 General Plan include:

Goal 6: Improve Air Quality

- Policy Eighteen: The County will promote effective communication, cooperation and coordination among agencies involved in developing and operating local and regional air quality programs.
    - Implementation Policy 1) Refer discretionary projects under CEQA review to the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD), neighboring jurisdictions and other affected agencies for review and comment.
    - Implementation Policy 2) Work with other agencies in the San Joaquin Valley to establish coordinated air quality programs and implementation measures.
- Policy Nineteen: The County will strive to accurately determine and fairly mitigate the local and regional air quality impacts of proposed projects.
    - Implementation Policy 1) Require all development proposals, where appropriate, to include reasonable air quality mitigation measures.
    - Implementation Policy 2) Minimize case-by-case analysis of air quality impacts through the use of standard criteria for determining significant environmental effects, a uniform method of calculating project emissions, and standard mitigation methods to reduce air quality impacts.
- Policy Twenty: The County shall strive to reduce motor vehicle emissions by reducing vehicle trips and vehicle miles traveled and increasing average vehicle ridership.
    - Implementation Policy 1) Through strategies identified in the Circulation Element, ensure that circulation systems are designed and maintained to minimize traffic congestion and vehicle emissions
- Policy Twenty-One: The County will support efforts to increase public awareness of air quality problems and solutions.
    - Implementation Policy 1) Support and participate in the air quality education programs of the SJVUAPCD to the greatest extent possible.

4.0 Air Quality Standards

The SJVAB designated an air quality status by the federal and state regulatory agencies, based on National and State standards. California standards tend to be more stringent than the National standards. Areas with monitored pollutant concentrations that are lower than ambient air quality standards are designated "attainment" for that pollutant. However, when monitored concentrations exceed ambient standards within an air basin, it is designated "nonattainment". As shown in Table 3, the San Joaquin Valley does not meet State or federal ambient air quality standards for O_3 and $PM_{2.5}$ and State standards for PM_{10}. In response to not meeting the NAAQs, the CARB and SJVAPCD have implemented multiple attainment plans, including the 2006 PM_{10} Plan, the 2024 Plan for the 2012 $PM_{2.5}$ Plan, and the 2022 Ozone Plan as described above.

Table 3 Attainment Status

Pollutant	Federal Standards	State Standards
Ozone (O_3) – 1-Hour Standard	Attainment	Nonattainment/Severe
Ozone (O_3) – 8-Hour Standard	Nonattainment/Extreme	Nonattainment
Respirable Particulate Matter (PM_{10})	Attainment	Nonattainment
Fine Particulate Matter ($PM_{2.5}$)	Nonattainment	Nonattainment
Carbon Monoxide (CO)	Attainment/Unclassified	Attainment/Unclassified
Nitrogen Dioxide (NO_2)	Attainment/Unclassified	Attainment
Sulfur Dioxide (SO_2)	Attainment/Unclassified	Attainment
Lead	No Designation/Classification	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Visibility Reducing Particles	No Federal Standard	Unclassified
Vinyl Chloride	No Federal Standard	Attainment

Source: San Joaquin Valley Air Pollution Control District – SJVAPCD Attainment Status https://www.valleyair.org/air-quality-information/ambient-air-quality-standards-valley-attainmnet-status/

The EPA uses six "criteria pollutants" as indicators of air quality and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called the NAAQS.

4.1 Ozone (1-hour and 8-hour)

Ozone occurs in two layers of the atmosphere. The layer surrounding the earth's surface is the troposphere. Here, ground level, or "bad" ozone, is an air pollutant that damages human health, vegetation, and many common materials. It is a key ingredient of urban smog. The troposphere extends to a level about 10 miles up, where it meets the second layer, the stratosphere. The stratospheric, or "good" ozone layer, extends upward from about 10 to 30 miles and protects life on earth from the sun's harmful ultraviolet rays.

"Bad" ozone is what is known as a photochemical pollutant. It needs reactive organic gases (ROG), NO_x, and sunlight. ROG and NO_x are emitted from various sources throughout Tulare County. In order to reduce ozone concentrations, it is necessary to control the emissions of these ozone precursors.

Significant ozone formation generally requires an adequate amount of precursors in the atmosphere and several hours in a stable atmosphere with strong sunlight. High ozone concentrations can form over large regions when emissions from motor vehicles and stationary sources are carried hundreds of miles from their origins.

Ozone is a regional air pollutant. It is generated over a large area and is transported and spread by wind. Ozone, the primary constituent of smog, is the most complex, difficult to control, and pervasive of the criteria pollutants. Unlike other pollutants, ozone is not emitted directly into the air by specific sources. Ozone is created by sunlight acting on other air pollutants (called precursors), specifically NO_x and ROG. Sources of precursor gases to the photochemical reaction that form ozone number in the thousands. Common sources include consumer products, gasoline vapors, chemical solvents, and combustion products of various fuels. Originating from gas stations, motor vehicles, large industrial facilities, and small businesses such as bakeries and dry cleaners, the ozone-forming chemical reactions often take place in another location, catalyzed by sunlight and heat. High ozone concentrations can form over large regions when emissions from motor vehicles and stationary sources are carried hundreds of miles from their origins. Approximately 50 million people lived in counties with air quality levels above the EPA's health-based national air quality standard in 1994. The highest levels of ozone were recorded in Los Angeles, closely followed by the San Joaquin Valley. High levels also persist in other heavily populated areas, including the Texas Gulf Coast and much of the Northeast.

While the ozone in the upper atmosphere absorbs harmful ultraviolet light, ground-level ozone is damaging to the tissues of plants, animals, and humans, as well as to a wide variety of inanimate materials such as plastics, metals, fabrics, rubber, and paints. Societal costs from ozone damage include increased medical costs, the loss of human and animal life, accelerated replacement of industrial equipment, and reduced crop yields.

Health Effects

While ozone in the upper atmosphere protects the earth from harmful ultraviolet radiation, high concentrations of ground-level ozone can adversely affect the human respiratory system. Many respiratory ailments, as well as cardiovascular disease, are aggravated by exposure to high ozone levels. Ozone also damages natural ecosystems, such as: forests and foothill communities; agricultural crops; and some man-made materials, such as rubber, paint, and plastic. High levels of ozone may negatively affect immune systems, making people more susceptible to respiratory illnesses, including bronchitis and pneumonia. Ozone accelerates aging and exacerbates pre-existing asthma and bronchitis and, in cases with high concentrations, can lead to the development of asthma in active children. Active people, both children and adults, appear to be more at risk from ozone exposure than those with a low level of activity. Additionally, the elderly and those with respiratory disease are also considered sensitive populations for ozone.

People who work or play outdoors are at a greater risk for harmful health effects from ozone. Children and adolescents are also at greater risk because they are more likely than adults to spend time engaged in vigorous activities. Research indicates that children under 12 years of age spend nearly twice as much time outdoors daily than adults. Teenagers spend at least twice as much time as adults in active sports and outdoor activities. In addition, children inhale more air per pound of body weight than adults, and they breathe more rapidly than adults. Children are less likely than adults to notice their own symptoms and avoid harmful exposures.

Ozone is a powerful oxidant—it can be compared to household bleach, which can kill living cells (such as germs or human skin cells) upon contact. Ozone can damage the respiratory tract, causing inflammation and irritation, and it can induce symptoms such as coughing, chest tightness, shortness of breath, and worsening of asthmatic symptoms. Ozone in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. Exposure to levels of ozone above the current ambient air quality standard leads to lung inflammation and lung tissue damage and a reduction in the amount of air inhaled into the lungs.

4.2 Suspended PM (PM_{10} and $PM_{2.5}$)

Particulate matter pollution consists of very small liquid and solid particles that remain suspended in the air for long periods. Some particles are large or concentrated enough to be seen as soot or smoke. Others are so small they can be detected only with an electron microscope. Particulate matter is a mixture of materials that can include smoke, soot, dust, salt, acids, and metals. Particulate matter is emitted from stationary and mobile sources, including diesel trucks and other motor vehicles; power plants; industrial processes; wood-burning stoves and fireplaces; wildfires; dust from roads, construction, landfills, and agriculture; and fugitive windblown dust. PM_{10} refers to particles less than or equal to 10 microns in aerodynamic diameter. $PM_{2.5}$ refers to particles less than or equal to 2.5 microns in aerodynamic diameter and are a subset of PM_{10}. Particulates of concern are those that are 10 microns or less in diameter. These are small enough to be inhaled, pass through the respiratory system and lodge in the lungs, possibly leading to adverse health effects.

In the western United States, there are sources of PM_{10} in both urban and rural areas. Because particles originate from a variety of sources, their chemical and physical compositions vary widely. The composition of PM_{10} and $PM_{2.5}$ can also vary greatly with time, location, the sources of the material and meteorological conditions. Dust, sand, salt spray, metallic and mineral particles, pollen, smoke, mist, and acid fumes are the main components of PM_{10} and $PM_{2.5}$. In addition to those listed previously, secondary particles can also be formed as precipitates from chemical and photochemical reactions of gaseous sulfur dioxide (SO_2) and NO_x in the atmosphere to create sulfates (SO_4) and nitrates (NO_3). Secondary particles are of greatest concern during the winter months where low inversion layers tend to trap the precursors of secondary particulates.

Health Effects

PM_{10} and $PM_{2.5}$ particles are small enough—about one-seventh the thickness of a human hair, or smaller—to be inhaled and lodged in the deepest parts of the lung where they evade the respiratory system's natural defenses. Health problems begin as the body reacts to these foreign particles. Acute and chronic health effects associated with high particulate levels include the aggravation of chronic respiratory diseases, heart and lung disease, and coughing, bronchitis, and respiratory illnesses in children. Recent mortality studies have shown a statistically significant direct association between mortality and daily concentrations of particulate matter in the air. Non-health-related effects include reduced visibility and soiling of buildings. PM_{10} can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections PM_{10} and $PM_{2.5}$ can aggravate respiratory disease and cause lung damage, cancer, and premature death.

Although particulate matter can cause health problems for everyone, certain people are especially vulnerable to adverse health effects of PM_{10}. These "sensitive populations" include children, the elderly, exercising adults, and those suffering from chronic lung disease such as asthma or bronchitis. Of greatest concern are recent studies that link PM_{10} exposure to the premature death of people who already have heart and lung disease, especially the elderly. Acidic PM_{10} can also damage manmade materials and is a major cause of reduced visibility in many parts of the United States.

4.3 Carbon Monoxide (CO)

Carbon monoxide (CO) is emitted by mobile and stationary sources as a result of incomplete combustion of hydrocarbons or other carbon-based fuels. CO is an odorless, colorless, poisonous gas that is highly reactive. CO is a byproduct of motor vehicle exhaust, contributes more than two thirds of all CO emissions nationwide. In cities, automobile exhaust can cause as much as 95 percent of all CO emissions. These emissions can result in high concentrations of CO, particularly in local areas with heavy traffic congestion. Other sources of CO emissions include industrial processes and fuel combustion in sources such as boilers and incinerators. Despite an overall downward trend in concentrations and emissions of CO, some metropolitan areas still experience high levels of CO.

Health Effects

CO enters the bloodstream and binds more readily to hemoglobin than oxygen, reducing the oxygen-carrying capacity of blood and thus reducing oxygen delivery to organs and tissues. The health threat from CO is most serious for those who suffer from cardiovascular disease. Healthy individuals are also affected but only at higher levels of exposure. At high concentrations, CO can cause heart difficulties in people with chronic diseases and can impair mental abilities. Exposure to elevated CO levels is associated with visual impairment, reduced work capacity, reduced manual dexterity, poor learning ability, difficulty performing complex tasks, and in prolonged, enclosed exposure, death.

The adverse health effects associated with exposure to ambient and indoor concentrations of CO are related to the concentration of carboxyhemoglobin (COHb) in the blood. Health effects observed may include an early onset of cardiovascular disease; behavioral impairment; decreased exercise performance of young, healthy men; reduced birth weight; sudden infant death syndrome (SIDS); and increased daily mortality rate.

Most of the studies evaluating adverse health effects of CO on the central nervous system examine high-level poisoning. Such poisoning results in symptoms ranging from common flu and cold symptoms (shortness of breath on mild exertion, mild headaches, and nausea) to unconsciousness and death.

4.4 Nitrogen Dioxide (NO_2)

Nitrogen oxides (NO_2) is a family of highly reactive gases that are primary precursors to the formation of ground-level ozone and react in the atmosphere to form acid rain. NO_2 is emitted from combustion processes in which fuel is burned at high temperatures, principally from motor vehicle exhaust and stationary sources such as electric utilities and industrial boilers. A brownish gas, NO_2 is a strong oxidizing agent that reacts in the air to form corrosive nitric acid, as well as toxic organic nitrates. EPA regulates only nitrogen dioxide (NO_2) as a surrogate for this family of compounds because it is the most prevalent form of NO_2 in the atmosphere that is generated by anthropogenic (human) activities.[1]

Health Effects

NO_2 is an ozone precursor that combines with Reactive Organic Gases (ROG) to form ozone. See the ozone section above for a discussion of the health effects of ozone.

Direct inhalation of NO_2 can also cause a wide range of health effects. NO_2 can irritate the lungs, cause lung damage, and lower resistance to respiratory infections such as influenza. Short-term exposures (e.g., less than 3 hours) to low levels of nitrogen dioxide (NO_2) may lead to changes in airway responsiveness and

1 United States Environmental Protection Agency (EPA), Nitrogen Oxides (NOx). Why and How They Are Controlled, 456/F-99-006R, November 2019

lung function in individuals with preexisting respiratory illnesses. These exposures may also increase respiratory illnesses in children. Long-term exposures to NO_2 may lead to increased susceptibility to respiratory infection and may cause irreversible alterations in lung structure. Other health effects associated with NO_x are an increase in the incidence of chronic bronchitis and lung irritation. Chronic exposure to NO_2 may lead to eye and mucus membrane aggravation, along with pulmonary dysfunction. NO_2 can cause fading of textile dyes and additives, deterioration of cotton and nylon, and corrosion of metals due to production of particulate nitrates. Airborne NO_2 can also impair visibility. NO_2 is a major component of acid deposition in California. NO_2 may affect both terrestrial and aquatic ecosystems. NO_2 in the air is a potentially significant contributor to a number of environmental effects such as acid rain and eutrophication in coastal waters. Eutrophication occurs when a body of water suffers an increase in nutrients that reduce the amount of oxygen in the water, producing an environment that is destructive to fish and other animal life.

NO_2 is toxic to various animals as well as to humans. Its toxicity relates to its ability to combine with water to form nitric acid in the eye, lung, mucus membranes, and skin. Studies of the health impacts of NO_2 include experimental studies on animals, controlled laboratory studies on humans, and observational studies.

In animals, long-term exposure to NO_2 increases susceptibility to respiratory infections, lowering their resistance to such diseases as pneumonia and influenza. Laboratory studies show susceptible humans, such as asthmatics, exposed to high concentrations of NO_2, can suffer lung irritation and, potentially, lung damage. Epidemiological studies have also shown associations between NO_2 concentrations and daily mortality from respiratory and cardiovascular causes as well as hospital admissions for respiratory conditions.

NO_2 contributes to a wide range of environmental effects both directly and when combined with other precursors in acid rain and ozone. Increased nitrogen inputs to terrestrial and wetland systems can lead to changes in plant species composition and diversity. Similarly, direct nitrogen inputs to aquatic ecosystems such as those found in estuarine and coastal waters can lead to eutrophication as discussed above. Nitrogen, alone or in acid rain, also can acidify soils and surface waters. Acidification of soils causes the loss of essential plant nutrients and increased levels of soluble aluminum, which is toxic to plants. Acidification of surface waters creates conditions of low pH and levels of aluminum that are toxic to fish and other aquatic organisms.

4.5 Sulfur Dioxide (SO_2)

The major source of sulfur dioxide (SO_2) is the combustion of high-sulfur fuels for electricity generation, petroleum refining and shipping. High concentrations of SO_2 can result in temporary breathing impairment for asthmatic children and adults who are active outdoors. Short-term exposures of asthmatic individuals to elevated SO_2 levels during moderate activity may result in breathing difficulties that can be accompanied by symptoms such as wheezing, chest tightness, or shortness of breath. Other effects that have been associated with longer-term exposures to high concentrations of SO_2, in conjunction with high levels of PM, include aggravation of existing cardiovascular disease, respiratory illness, and alterations in the lungs' defenses. SO_2 also is a major precursor to $PM_{2.5}$, which is a significant health concern and a main contributor to poor visibility. In humid atmospheres, sulfur oxides can react with vapor to produce sulfuric acid, a component of acid rain.

4.6 Leab (Pb)

Lead, a naturally occurring metal, can be a constituent of air, water, and the biosphere. Lead is neither created nor destroyed in the environment, so it essentially persists forever. Lead was used until recently to increase the octane rating in automobile fuel. Since the 1980s, lead has been phased out in gasoline, reduced in drinking water, reduced in industrial air pollution, and banned or limited in consumer products.

Gasoline-powered automobile engines were a major source of airborne lead through the use of leaded fuels; however, the use of leaded fuel has been mostly phased out. Since this has occurred the ambient concentrations of lead have dropped dramatically.

Exposure to lead occurs mainly through inhalation of air and ingestion of lead in food, water, soil, or dust. It accumulates in the blood, bones, and soft tissues and can adversely affect the kidneys, liver, nervous system, and other organs. Excessive exposure to lead may cause neurological impairments such as seizures, mental retardation, and behavioral disorders. Even at low doses, lead exposure is associated with damage to the nervous systems of fetuses and young children. Effects on the nervous systems of children are one of the primary health risk concerns from lead. In high concentrations, children can even suffer irreversible brain damage and death. Children 6 years old and under are most at risk, because their bodies are growing quickly.

4.7 Toxic Air Contaminants (TACs)

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TAC) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated despite the absence of criteria documents. The identification, regulation and monitoring of TAC is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated on the basis of risk rather than specification of safe levels of contamination. The ten TAC are acetaldehyde, benzene, 1,3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (diesel PM). Caltrans' guidance for transportation studies references the Federal Highway Administration (FHWA) memorandum titled "Interim Guidance on Air Toxic Analysis in NEPA Documents" which discusses emissions quantification of six "priority" compounds of 21 Mobile Source Air Toxics (MSAT) identified by the United States Environmental Protection Agency (USEPA). The six "priority" compounds are diesel exhaust (particulate matter and organic gases), benzene, 1,3-butadiene, acetaldehyde, formaldehyde, and acrolein.

Some studies indicate that diesel particulate matter (DPM) poses the greatest health risk among the TAC listed above. A 10-year research program (California Air Resources Board 1998) demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk. In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TAC in that it is not a single substance but a complex mixture of hundreds of substances. Although diesel PM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies, depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TAC, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The CARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the CARB emissions inventory's PM_{10} database, ambient PM_{10} monitoring data, and the results from several studies to estimate concentrations of DPM. Table 4 of the Handbook depicts the CARB Handbook's recommended buffer distances associated with various types of common sources.

Existing air quality concerns within the air basin are related to increases of regional criteria air pollutants (e.g., ozone and particulate matter), exposure to toxic air contaminants, odors, and increases in greenhouse gas emissions contributing to climate change. The primary source of ozone (smog) pollution is motor vehicles. Particulate matter is caused by dust, primarily dust generated from construction and

grading activities, and smoke which is emitted from fireplaces, wood-burning stoves, and agricultural burning.

4.8 Odors

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another. It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

The intensity of an odor source's operations and its proximity to sensitive receptors influences the potential significance of odor emissions. The project does not propose any uses that would be potential odor sources.

4.9 Naturally Occurring Asbestos (NOA)

Asbestos is a term used for several types of naturally occurring fibrous minerals found in many parts of California. The most common type of asbestos is chrysotile, but other types are also found in California. Asbestos is commonly found in ultramafic rock and near fault zones. The amount of asbestos that is typically present in these rocks' ranges from less than 1% up to approximately 25% and sometimes more. It is released from ultramafic rock when it is broken or crushed. This can happen when cars drive over unpaved roads or driveways, which are surfaced with these rocks, when land is graded for building purposes, or at quarrying operations. Asbestos is also released naturally through weathering and erosion. Once released from the rock, asbestos can become airborne and may stay in the air for long periods of time. Asbestos is hazardous and can cause lung disease and cancer dependent upon the level of exposure. The longer a person is exposed to asbestos and the greater the intensity of the exposure, the greater the chances for a health problem.

The proposed project's construction phase may cause asbestos to become airborne due to the construction activities that will occur on site.

The nearest naturally occurring asbestos is located approximately 50 miles away from the proposed project site, as shown in the General Location Guide for Ultramafic Rocks in California, prepared by the California Division of Mines and Geology. As the proposed project site is approximately 50 miles away, the site is not likely to contain NOA.

5.0 Air Quality Impacts

Air quality impacts are evaluated on both a short-term and long-term basis. Short-term impacts are generally considered to occur during project construction while long-term impacts are associated with project operation.

Air quality threshold criteria are developed and applied using federal, state, and local data and methodologies including computerized modeling techniques. State CEQA Guidelines state in Appendix G, that for air quality, a project will ordinarily have a significant effect on the environment if it violates any ambient State or Federal air quality standard, contribute substantially to an existing or projected air quality violation, or expose sensitive receptors to substantial pollutant concentrations.

The criteria used to determine the significance of air quality impacts are taken from the California Environmental Quality Act Guidelines (CEQA Guidelines) (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would:

- Conflict with or obstruct implementation of the applicable air quality plan.
- Violate any air quality standard or contribute substantially to an existing or projected air quality violation
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable Federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)
- Expose sensitive receptors to substantial pollutant concentrations.
- Create objectionable odors affecting a substantial number of people

The SJVAPCD has developed the Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI). This guide provides the framework for analyzing air quality impacts and determining significance of impacts. The GAMAQI examines land use conflicts and exposure of sensitive receptors, as discussed below.

Potential Land Use Conflicts and Exposure of Sensitive Receptors

Given the potential for air quality impacts increases as the distance between a source of emissions and a receptor decreases, the location of a development plays a significant role in whether a project will have localized air quality impacts. Sensitive receptors are the segments of the population most susceptible to poor air quality, such as children, the elderly, and those with pre-existing serious health problems affected by air quality. Common land uses to consist of sensitive receptors includes schools, parks, daycare centers, nursing homes, hospitals, and residential communities. Worker receptors are the employees and locations where people work.

The two types of land use projects with the potential to cause long-term health impacts are Type A Projects, which are projects that place new toxic sources in the vicinity of existing receptors, and Type B Projects, which place new receptors in the vicinity of existing toxic sources. Screening tools to determine impacts on Type A Projects include prioritization charts, AERSCREEN and various spreadsheets. However, for Type B Projects, the CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* provides a

table, Recommendations on Siting New Sensitive Land Uses Such As Residences, Schools, Daycares, Playgrounds, or Medical Facilities, with buffer distances that trigger the need for a health risk screening or assessment. In addition, projects can utilize the California Air Pollution Control Officers Association's (CAPCOA) Guidance Document, *Health Risk Assessments for Proposed Land Use Projects,* which describes when a health risk assessment should be prepared and how to proceed with the results.

The SJVAPCD GAMAQI also includes thresholds of significance that are used to determine whether a proposed project would result in a significant air quality impact under CEQA, as described below.

Construction Emissions of PM

Construction projects are required to comply with Regulation VIII, which indicates many measures to control fugitive dust, such as applying water to unpaved surfaces and areas, using non-toxic chemical or organic dust suppressants on unpaved roads and traffic areas, and limiting or reducing vehicle speed on unpaved roads and traffic areas. For projects in which construction related activities would disturb equal to or greater than 1-acre of surface area, the SJVAPCD recommends the preparation of a Dust Control Plan.

Criteria Pollutant Emissions

SJVAPCD adopted CEQA thresholds of significance for criteria pollutant emissions. The thresholds are presented in Table 2. These thresholds address both construction and operational emissions. Determination of whether a project would exceed the applicable thresholds of significance for criteria pollutants requires quantification of project specific emissions. A project would be considered to have a significant impact if its emissions exceed the criteria pollutant thresholds.

Ambient Air Quality

The thresholds of significance for Ambient Air Quality are based on the CAAQS and NAAQS. A project would be considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any CAAQS or NAAQS. The ambient air quality standards are presented in Table 1. SJVAPCD recommends that an air quality analysis be performed, utilizing dispersion modeling, for construction or operation of projects when on-site emissions exceed 100 pounds per day after implementation of all mitigation measures

Toxic Air Contaminants

The SJVAPCD's current thresholds of significance for toxic air contaminant (TAC) emissions from the operations of both permitted and non-permitted sources include carcinogens and non-carcinogens. Carcinogenic exposure occurs when maximally exposed individual risk equals or exceeds 20 in one million. Non-carcinogenic exposure occurs when hazard index equals or exceeds 1 for the Maximally Exposed Individual (acute) or hazard index equals or exceeds 1 for the Maximally Exposed Individual (chronic). The basis for risk threshold for SJVAPCD is as follows:

- Minimize health risks from new and modified sources of air pollution.
- Health risks from new and modified sources shall not be significant relative to the background risk

levels and other risk levels that are typically accepted throughout the community.
- Avoid unreasonable restrictions on permitting.

The Office of Environmental Health Hazard Assessment (OEHHA) Risk Assessment Guidelines are the standards for estimating health risks. SJVAPCD's Risk Management Policy works with the OEHHA Risk Assessment Guidelines to determine significance.

6.0 Methodology

The impact assessment for air quality focuses on potential effects the project might have on air quality within the region. SJVAPCD has established thresholds of significance for determining environmental significance. These thresholds separate a project's short-term emissions from its long-term emissions. The short-term emissions are mainly related to the construction phase of a project, which are recognized to be short in duration. The long-term emissions are primarily related to the activities that will occur indefinitely as a result of project operations. Impacts will be evaluated both on the basis of CEQA Appendix G criteria and SJVAPCD significance criteria. The impacts to be evaluated will be those involving construction and operational emissions of criteria pollutants.

6.1 CalEEMod

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use.

The model is an accurate and comprehensive tool for quantifying air quality impacts from land use projects throughout California. The model can be used for a variety of situations where an air quality analysis is necessary or desirable such as CEQA documents, pre-project planning, compliance with local air quality rules and regulations, etc.

6.2 CalEEMod Inputs

The CalEEMod land use that was utilized was User Defined Industrial. The model included a lot acreage of 738.62 acres and 200,000 square feet of landscaped area. Emissions from the construction phase of the project were estimated using the CalEEMod Model Version 2022.1.1.46. It was assumed that heavy construction equipment would be operating at the site for eight hours per day, five days per week during project construction. In addition, it was assumed that, in accordance with the requirements of the SJVAPCD Rule 8011, fugitive dust controls would be utilized during construction, including watering of active sites.

The model made construction assumptions regarding the type of equipment utilized throughout the different construction phases, as indicated in Table 4, Off-Road Equipment. However, a pile driver was manually added to the construction list. The model also provided default phases and timeframes for each phase of construction. However, these dates were manually updated to reflect a more accurate construction schedule that was provided by the Applicant, as shown in Table 5, Construction Schedule. In addition, the paving and architectural coating phase were manually removed from the construction schedule, as they are not applicable, and a Pole Installation Phase was added to account for the proposed pole installation and relocation.

During construction, the project will be grading approximately 220,000 cubic yards. Approximately 120 cubic yards of soil will be exported to Kettleman Hills Facility, which is approximately 135 miles away, as part of the Soil Management Plan. The remaining 219,880 cubic yards would be focused on site. Therefore, the Construction Trips and VMT were manually adjusted to account for the 120 cubic yards of export being transported 135 miles, assuming each truck holds 16 cubic yards of material per trip. In addition, the number of trips per day was updated to reflect the number of individuals needed onsite during construction, resulting in an average of approximately 5-25 workers per day, with up to approximately 100 workers on-site during peak construction activities (200 one/way trips per day).

The Operations - Vehicle Data input was manually updated to meet the assumption that four employees are expected to visit the Project site for routine maintenance up to four times per year for two weeks at a time, resulting in approximately 320 one-way trips per year.

Finally, the Operations – Water and Waste Water input was manually updated reflect 25-acre feet of water per year. In addition, the site utilizes on-site wells, so the Electricity Intensity Factor to the Supply and Distribute category has been deleted to exclude the offsite energy associated with water conveyance and distribution.

Table 4 Off-Road Equipment

Phase	Equipment Type	Quantity Per Day
Demolition	Concrete/Industrial Saws	1
	Excavators	3
	Rubber Tired Dozers	2
Site Preparation	Rubber Tired Dozers	3
	Tractors/Loaders/Backhoes	4
Grading	Excavators	2
	Graders	1
	Rubber Tired Dozers	1
	Scrapers	2
	Tractors/Loaders/Backhoes	2
Building Construction	Cranes	1
	Forklifts	3
	Generator Sets	1
	Welders	1
	Pile Drivers	1
	Tractors/Loaders/Backhoes	3
Pole Installation	Excavators	1
	Off-Highway Trucks	3
	Tractors/Loaders/Backhoes	1
	Bore/Drill Rigs	1

Table 5 Construction Schedule

Phase	Start Date	End Date
Demolition	5/1/2027	5/8/2027
Site Preparation	5/12/2027	6/12/2027
Grading	6/15/2027	12/14/2027
Building Construction	12/21/2027	10/1/2028
Pole Installation	12/21/2027	1/5/2028

7.0 Air Quality Analysis

Construction and operation emissions are compared to emissions thresholds according to the SJVAPCD in Table 6.

Construction Emissions account for the emissions being produced from construction in 2027 and 2028, as calculated from the CalEEMod. Operational Emissions account for emissions that will be produced during Project operation, as calculated from the CalEEMod, not including emission production from the proposed generators. The Operational Emissions - Generator accounts for the emissions produced from the generators during project operation.

Table 6 Pollutant Emissions (tons/year, unmitigated unless otherwise specified)

Emissions Sources	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Construction Emissions[1]						
Construction Emissions (2027)	**0.26**	**2.22**	**2.38**	**0.005**	**0.61**	**0.25**
Construction Emissions (2028)	**0.57**	**4.12**	**3.30**	**0.004**	**0.43**	**0.30**
SJVAPCD Construction Threshold	**10**	**10**	**100**	**27**	**15**	**15**
Significant?	**No**	**No**	**No**	**No**	**No**	**No**
Operational Emissions[2,3]						
Mobile Sources	**0.00060**	**0.00068**	**0.00487**	**0.00001**	**0.00120**	**0.00031**
Area Sources	**0**	**0**	**0**	**0**	**0**	**0**
Energy Usage	**0**	**0**	**0**	**0**	**0**	**0**
Water and Wastewater	**-**	**-**	**-**	**-**	**-**	**-**
Solid Waste	**-**	**-**	**-**	**-**	**-**	**-**
Operational Emissions - Generator						
50 kW Generator [4]	**-**	**-**	0.01847	**-**	0.00011	0.00011
250–300 kW Generator [5]	**-**	0.008896	0.077801	**-**	0.00044	0.00044
Total Operational Emissions	**0.00060**	**0.009576**	**0.10114**	**0.00001**	**0.00175**	**0.00086**
SJVAPCD Operational Threshold	**10**	**10**	**100**	**27**	**15**	**15**
Significant?	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod 2022.1.1.46

[1] Total Construction Emissions by Year, unmitigated
[2] Operations Emissions by Sector, Unmitigated
[3] Does not include generator emissions
[4] Assuming 50 hours of testing and maintenance per year
[5] Assuming 50 hours of testing and maintenance per year

As mentioned above, Table 6 provides the emissions from the proposed on-site generators that were calculated using Tier 4 emission factors for the specified power ratings, as shown in Table 7, Tier 4 Exhaust Emission Standards After the 2014 Model Year. Calculations account for routine testing and maintenance (assumed 50 hours per year for a generator). Emergency operation emissions are assumed to be negligible. The 50kW generator and the 250–300 kW generator were included in the analysis. The calculations used for determining the emission values of the generators are provided in Appendix B.

Table 7 Tier 4 Exhaust Emission Standards After the 2014 Model Year, g/kW-HR[a]

Maximum Engine Power	Application	PM	NO_2	No_2 + NMHC	CO
kW < 19	All	**0.40** [b]	-	**7.5**	**6.6**[c]
19 ≤ kW < 56	All	**0.03**	-	**4.7**	**5.0**[d]
56 ≤ kW < 130	All	**0.02**	**0.40**	-	**5.0**
130 ≤ kW ≤ 560	All	**0.02**	**0.40**	-	**3.5**
kW > 560	Generator sets	**0.03**	**0.67**	-	**3.5**
kW > 560	All except generator sets	**0.04**	**3.5**	-	**3.5**

Source: CFR Subpart B – Emission Standards and Related Requirements - Table 1

[a] – Note that some of these standards also apply for 2014 and earlier model years.
[b] – See paragraph (c) of this section for provisions related to optional PM standard for certain engines below 8 kW
[c] - The CO standard is 8.0 g/kW-hr for engines below 8 kW
[d] - The CO standard is 5.5 g/kW-hr for engines below 37 kW

Projects in the SJVAB with construction- or operation-related emissions that exceed any of their respective emission thresholds would be considered significant under SJVAPCD guidelines. These thresholds, which SJVAPCD developed and that apply throughout the Basin, apply as both project and cumulative thresholds. Temporary construction impacts include emissions associated with site preparation, grading and utilities installation. Operational impacts will be less than significant due to negligible maintenance requirements, resulting in two to four employees visiting the Project site for routine maintenance on the solar PV and BESS facilities, in addition to washing of PV panels, up to four times per year for two weeks at a time. The project construction and operation emissions do not exceed these thresholds.

7.1 Odors

A qualitative assessment indicating that a project may reasonably be expected to generate odorous emissions in such quantities as to cause detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which may endanger the comfort, repose, health, or safety of any such person or the public, or which may cause, or have a natural tendency to cause, injury or damage to business or property (see California Health and Safety Code, Division 26, §41700) will have a significant adverse air quality impact.

The project would not result in odors that would adversely affect a substantial number of people. The odor analysis includes consideration of both construction-related odors and odors associated with ongoing operations. During construction, diesel equipment operating at the site may generate some nuisance odors. However, due to the temporary nature of construction, odors associated with project construction would not be significant.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for this project. The project's operation would not involve industrial processes or other activities that would generate substantial odors. Overall, odor impacts would be less than significant.

8.0 Greenhouse Gas Regulation

8.1 State – California Regulation

Assembly Bill 32 (California Global Warming Solutions Act of 2006)

California passed the California Global Warming Solutions Act of 2006 (AB 32; California Health and Safety Code Division 25.5, Sections 38500 - 38599). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and establishes a cap on statewide GHG emissions. AB 32 required that statewide GHG emissions be reduced to 1990 levels by 2020. December 31, 2020, is the deadline for achieving the 2020 GHG emissions cap. To effectively implement the cap, AB 32 directs CARB to develop and implement regulations to reduce statewide GHG emissions from stationary sources. AB 32 specifies that regulations adopted in response to AB 1493 should be used to address GHG emissions from vehicles. However, AB 32 also includes language stating that if the AB 1493 regulations cannot be implemented, then CARB should develop new regulations to control vehicle GHG emissions under the authorization of AB 32.

AB 32 requires CARB to adopt a quantified cap on GHG emissions representing 1990 emissions levels and disclose how it arrived at the cap; institute a schedule to meet the emissions cap; and develop tracking, reporting, and enforcement mechanisms to ensure that the state reduces GHG emissions enough to meet the cap. AB 32 also includes guidance on instituting emissions reductions in an economically efficient manner, along with conditions to ensure that businesses and consumers are not unfairly affected by the reductions. Using these criteria to reduce statewide GHG emissions to 1990 levels by 2020 would represent an approximate 25 to 30 percent reduction in current emissions levels. However, CARB has discretionary authority to seek greater reductions in more significant and growing GHG sectors, such as transportation, as compared to other sectors that are not anticipated to significantly increase emissions.

CARB's 2017 Climate Change Scoping Plan builds on the efforts and plans encompassed in the initial Scoping Plan adopted in December of 2008. The current plan has identified new policies and actions to accomplish the State's 2030 GHG limit.

Assembly Bill 1279 (AB 1279)

AB 1279 addresses climate change and environmental sustainability throughout the state, curbing GHG emissions, promoting renewable energy sources, enhancing air and water quality standards, and instituting policies aimed at both mitigating and adapting to the repercussions of climate change. AB 1279 addresses the climate crisis by setting goals to achieve net zero GHG emissions by 2045 and maintain net negative emissions thereafter. By the same year, it aims to reduce statewide GHG emissions to at least 85% below 1990 levels

Assembly Bill 197 (AB 197)

AB 197 requires the California Air Resources Board (CARB) to consider the social costs of greenhouse gas emissions and to emphasize direct GHG emission reductions from mobile sources and large stationary sources. The legislation also increases legislative oversight of CARB by adding two legislatively appointed members to the CARB Board and creating a legislative committee to provide recommendations on CARB programs.

Assembly Bill 2127 (AB 2127)

AB 2127, the Electric Vehicle Charging Infrastructure Assessment Act, requires the California Energy

Commission (CEC) to biennially assess the electric vehicle charging infrastructure needed to meet the state's goals of putting at least 5 million zero-emission vehicles on California roads by 2030. AB 2127 also aims to reduce greenhouse gas emissions to 40% below 1990 levels by 2030. CEC's AB 2127 Report will identify the quantity and type of EV chargers required to support these transportation goals by 2030 and will support transportation electrification to help reduce GHG emissions.

Senate Bill 32 (SB 32)

SB 32 is a California Senate bill expanding upon AB 32 to reduce greenhouse gas (GHG) emissions. The lead author is Senator Fran Pavley, and the principal co-author is Assembly member Eduardo Garcia. SB 32 was signed into law on September 8, 2016, by Governor Brown. SB 32 sets into law the mandated reduction target in GHG emissions as written into Executive Order B-30-15. SB 32 requires that there be a reduction in GHG emissions to 40% below the 1990 levels by 2030. Greenhouse gas emissions include carbon dioxide, methane, nitrous oxide, sulfur hexafluoride, hydrofluorocarbons, and perfluorocarbons.

The California Air Resources Board (CARB) is responsible for ensuring that California meets this goal. The provisions of SB 32 were added to Section 38566 of the Health and Safety Code subsequent to the bill's approval. The bill went into effect January 1, 2017. SB 32 builds onto Assembly Bill (AB) 32 written by Senator Fran Pavley and Assembly Speaker Fabian Nunez passed into law on September 27, 2006. AB 32 required California to reduce greenhouse gas emissions to 1990 levels by 2020 and SB 32 continues that timeline to reach the targets set in Executive Order B-30-15. SB 32 provides another intermediate target between the 2020 and 2050 targets set in Executive Order S-3-05.

Senate Bill 1020 (SB 1020)

SB 1020, the Clean Energy, Jobs, and Affordability Act, builds upon California's 100 percent clean electricity goals established under SB 100. SB 1020 establishes targets require that eligible renewable energy resources and zero-carbon resources supply 90% of all retail sales of electricity to California end-use customers by December 31, 2035, 95% of all retail sales of electricity to California end-use customers by December 31, 2040, 100% of all retail sales of electricity to California end-use customers by December 31, 2045, and 100% of electricity procured to serve all state agencies by December 31, 2035, advancing decarbonization of the electricity sector. SB 1020 strengthens the State's greenhouse gas reduction framework by accelerating grid decarbonization. This supports long-term reductions in GHG emissions associated with electricity consumption.

Title 24

California Code of Regulations (CCR) Title 24, Part 6 (California Energy Code) was originally adopted in 1978 pursuant to a legislative mandate to reduce statewide energy consumption. The Energy Code is updated periodically to reflect advancements in energy-efficient technologies and building practices.

CCR Title 24, Part 11 (California Green Building Standards Code or CALGreen) establishes a comprehensive and uniform set of mandatory green building standards applicable to residential, commercial, industrial, and school buildings statewide. CALGreen became effective on August 1, 2009, and is administered by the California Building Standards Commission. The code is updated regularly; the most recent approved update is the 2022 California Green Building Standards, which took effect on January 1, 2023.

CARB's 2022 Scoping Plan for Achieving Carbon Neutrality

The CARB's 2022 Scoping Plan for Achieving Carbon Neutrality (Scoping Plan) was finalized in December 2022 and was designed to implement the GHG emission reduction targets. This document addresses the objective of informing the most viable path to remain on track to achieve our 2030 GHG reduction target

with a reduction in anthropogenic emissions by 85% below 1990 levels and carbon neutrality by 2045. This plan, addressing recent legislation and direction from Governor Newsom, expands upon earlier plans, including the 2017 California Climate Change Scoping Plan, with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The plan outlines how carbon neutrality can be achieved to reduce GHGs to meet the emissions targets. Targets addressed throughout this Scoping Plan include:

- Achieve carbon neutrality by 2045
- California is reducing its GHG emissions by at least 40 percent below 1990 levels by 2030. This target is set in Executive Order S-3-15 and Senate Bill 32 that recommends local governments target 6.0 MTCO2e per capita per year by 2030 and 2.0 MTCO2e by 2050 (of 80% below 1990 levels).

8.2 Regional – San Joaquin Valley Air Pollution Control District

Climate Change Action Plan (CCAP)

SJVAPCD CCAP was adopted on August 21, 2008. The plan is guidance document adopted to address GHG emissions from development projects within the SJVAPCD. The CCAP includes best performance standards for development projects. The CCAP provides project-level guidance for compliance with CEQA by defining a Business-as-Usual (BAU) emissions baseline, establishing Best Performance Standards (BPS), which are performance-based measures for reducing GHG emissions, and identifying GHG reduction strategies to determine significance of GHG impacts and demonstrating project consistency with regional and state climate policies.

8.3 Local - Stanislaus County

Stanislaus County 2015 General Plan

Goal 6 : Improve Air Quality

- Policy Twenty: The County shall strive to reduce motor vehicle emissions by reducing vehicle trips and vehicle miles.
    - Implementation Measure 1) Through strategies identified in the Circulation Element, ensure that circulation systems are designed and maintained to minimize traffic congestion and vehicle emissions.
    - Implementation Measure 2) Support a broad range of transportation modes, including public transit, bicycling and pedestrian travel, through the strategies identified in the Circulation Element.
- Policy Twenty-One: The County will support efforts to increase public awareness of air quality problems and solutions.
    - Implementation Measure 2) Work with the local building industry, utilities, and the SJVUAPCD to educate developers and builders on the benefits of energy-efficient designs and the use of low-emission equipment for new residential and commercial construction.

9.0 Greenhouse Gas Impacts

According to the California Natural Resources Agency, "due to the global nature of GHG emissions and their potential effects, GHG emissions will typically be addressed in a cumulative impacts analysis." According to Appendix G of the CEQA Guidelines, the following criteria may be considered to establish the significance of GHG emissions:

Would the project:

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

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

SJVAPCD has not determined a specific quantitative level of GHG emissions increase, above which the project would have a significant impact on the environment, and below which would have an insignificant impact. District staff further concludes that impacts of project specific emissions on global climatic change are cumulative in nature, and the significance should be examined in that context.

The SJVAPCD has developed a policy for Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency. The thresholds of significance, obtained from policy, are used to determine whether a proposed project would result in a significant air quality impact under CEQA.

9.1 GHG Threshold

On December 17, 2009, the SJVAPCD's Governing Board adopted the District Policy: *Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency*. The District's Governing Board also approved the guidance document: Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects Under CEQA.

The SJVAPCD requires all stationary source projects with increased GHG emissions to implement Best Performance Standards (BPS) to assess a project's GHG emissions significance on global climate change. Implementation of BPS streamlines the process of determining significance under CEQA. If a project implements BPS, the impacts will be less than significant. Otherwise, projects must demonstrate that project specific GHG emissions have been reduced or mitigated by at least 29%, as compared to Business-as-Usual (BAU), consistent with GHG emission reduction targets established in ARB's AB 32 Scoping Plan. BAU is the emissions for a type of equipment or operation within an identified class and category projected for the year 2020, assuming no change in GHG emissions per unit of activity as established for the baseline period. Baseline for Commercial and Industrial Development projects is the three-year average of GHG emissions from all commercial or industrial units in the San Joaquin Valley Air District, during the 2002 through 2004 baseline period, expressed as annual GHG emissions per commercial or industrial unit.

However, quantification of GHG emissions would be expected for all projects for which the lead agency has determined that an Environmental Impact Report (EIR) is required, regardless of whether the project incorporates BPS.

9.2 GHG Analysis

During construction of the project, GHGs would be emitted through the operation of construction equipment and from worker and vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil- based fuels creates GHGs (e.g., CO_2, CH_4, and N_2O). However, the State of California requires all vehicles to abide by strict environmental standards and maintain operating catalytic converters.

In addition, transportation associated with the construction of the proposed project would result in GHG emissions from the combustion of fossil fuels in daily automobile trips, electricity, and gas use. As mentioned above, the project will be exporting approximately 120 cubic yards of material to Kettleman Hills Facility, which is approximately 135 miles away from the Project site. The transportation of exported material has been included in the estimation of CO_2e produced during project construction.

The Project would be operated on an autonomous, unstaffed basis and monitored remotely from an existing off-site facility. It is anticipated that maintenance requirements for the Project would be minimal as the PV arrays would operate with limited moving parts. As such, there would be a reduction of impacts compared to the current agricultural use which relies heavily on machinery to spread fertilizer and pesticides.

As shown in Table 8, Project Related GHG Emissions, CO_2e levels are low for the construction and operational phases of the projects. As the Project proposes utility-scale solar PV electricity generation, the proposed work aligns with BPS, compared to other types of electricity generation, such as fossil fueled power plants. The operation of the project would also include the use of a 50-kW standby generator that would act as a backup power supply to the Project communications and control house in the substation. Additionally, a 250-kW backup generator would be provided to run the existing on-site agricultural well for fire/water supply. The calculations for the emissions of greenhouse gases associated with the generator operation are provided in Appendix B. The operation of the project would provide electric power with minimal GHG emissions over the life of the project when compared with traditional fossil-fueled power plants. Therefore, the project is consistent with state GHG policy to encourage solar power development to reduce GHG emissions and improve air quality.

Table 8 Project Related GHG Emissions

Summary	CO_2e MT
Construction CO_2e Emissions[1]	
2027 Construction Emissions	501.039
2028 Construction Emissions	468.057
Total Construction Emissions	**969.096**
Operational CO_2e Emissions[2]	
Mobile Sources	1.20223
Area Sources	0.00
Energy Usage	0.00
Water and Wastewater	0.56972
Solid Waste	0.00
Total Operational CO_2e Emissions[3]	**1.77194**
Operational CO_2e Emissions – Generator[4]	
50 kW Generator [5]	**2.19**
250 - 300 kW Generator [6]	**4.59**
Total Generator Operational CO_2e Emissions	**6.78**
Total Operational CO_2e Emissions	**8.55**

Source: CalEEMod 2022.1.1.46

Notes:

1. CO_2e emissions per year from annual unmitigated construction
2. CO_2e emissions per year from annual unmitigated operations
3. Does not include generator emissions
4. CO_2e emissions per year from proposed generator use
5. Assuming 50 hours of testing and maintenance per year
6. Assuming 50 hours of testing and maintenance per year

10.0 CEQA Environmental Checklist

Issues	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
AIR QUALITY: Would the Project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

The proposed project is located within the SJVAB and, therefore, falls under the jurisdiction of the SJVAPCD. In conjunction with the Stanislaus Council of Governments (StanCOG), the SJVAPCD is responsible for formulating and implementing air pollution control strategies. The SJVAPCD's most recent air quality plans are the 2006 PM_{10} Maintenance Plan, the 2024 Plan for the 2012 Annual $PM_{2.5}$ Standard and the 2022 Ozone Plan for the San Joaquin Valley. These plans establish a comprehensive air pollution control program leading to the attainment of state and federal air quality standards in the SJVAB, which has been classified as "extreme non-attainment" for ozone, "attainment" for PM_{10}, and "non-attainment" for $PM_{2.5}$, as defined by the Federal Clean Air Act. During project construction, emissions with regional effects are calculated using the CalEEMod; Version 2022.1.1.46 and would not exceed criteria pollutant thresholds established by the SJVAPCD.

a) **Less Than Significant Impact**.

As required by California law, City and County General Plans must contain a Land Use Element that details the types and quantities of land uses that the city or county estimates will be needed for future growth, and that designate locations for land uses to regulate growth. Existing and future pollutant emissions computed in the SJVAPCD's CCAP are based on land uses from area general plans. Air quality plans detail the control measures and emission reductions required for reaching attainment of the air standards.

The applicable General Plan for the project is the Stanislaus County General Plan, approved in 2016. SJVAPCD's most recent air quality plans are the 2006 PM_{10} (respirable particulate matter) Maintenance Plan, the 2024 Plan for the 2012 Annual $PM_{2.5}$ Standard and the 2022 Ozone Plan for the San Joaquin Valley. These plans establish a comprehensive air pollution control program leading to the attainment of state and federal air quality standards in the SJVAB, which has been classified as "extreme non-attainment" for ozone, "attainment" for PM_{10}, and "non-attainment" for $PM_{2.5}$, as defined by the Federal Clean Air Act. During construction and operation, emissions would not exceed criteria pollutant thresholds established by the SJVAPCD, as shown in Table 6 above, Pollutant Emissions. As a result, the project will not conflict with or obstruct implementation of any air quality plans. Therefore, impacts would be less than significant and no mitigation is needed.

b) **Less Than Significant Impact**.

The Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard. The proposed project is located within the SJVAB and, therefore, falls under the jurisdiction of the SJVAPCD. The SJVAPCD's most recent air quality plans are the 2006 PM_{10} (respirable particulate matter) Maintenance Plan, the 2024 Plan for the 2012 Annual $PM_{2.5}$ Standard and the 2022 Ozone Plan for the San Joaquin Valley. These plans establish a comprehensive air pollution control program leading to the attainment of state and federal air quality standards in the SJVAB, which has been classified as "extreme non-attainment" for ozone, "attainment" for PM_{10}, and "non-attainment" for $PM_{2.5}$, as defined by the Federal Clean Air Act.

Emissions are calculated using the CalEEMod Version 2022.1.1.46. As shown in Table 6 above, Pollutant Emissions, emissions from construction of the project would be below the SJVAPCD air quality significance thresholds for all pollutants. In addition, emissions from operation of the project would be below the SJVAPCD air quality significance thresholds for all pollutants. Therefore, the Project would not result in a significant increase in criteria pollutants, and impacts would be less than significant without mitigation.

c) **Less Than Significant Impact.**

As described above, the GAMAQI examines land use conflicts and exposure of sensitive receptors in Section 6.5, Potential Land Use Conflicts and Exposure of Sensitive Receptors. Sensitive receptors are the segments of the population most susceptible to poor air quality, such as children, the elderly, and those with pre-existing serious health problems affected by air quality. As described in GAMAQI, the two types of land use projects with the potential to cause long-term health impacts are Type A Projects, which are projects that place new toxic sources in the vicinity of existing receptors, and Type B Projects, which place new receptors in the vicinity of existing toxic sources.

The proposed Project would be considered a Type A Project, as it would introduce minor new sources of emissions, primarily from periodic operation of two diesel generators and minimal maintenance trips. The project does not include the introduction of new sensitive receptors and therefore does not meet the definition of a Type B project.

Due to the infrequent number of proposed maintenance trips and use of the generators during operation, these emission sources would be intermittent and low in intensity, resulting in minimal potential for exposure. While much of the surrounding land is rural, agricultural land, a single-family home is located 100 feet to the east, and a truck stop is located approximately 540 feet north. The truck stop includes a gas station, various commercial/retail uses, and a hotel approximately 1,818 feet to the west of the Project site. Although the single-family home is only 100 feet from the Project site boundary, the home is likely to be much farther from the vehicle and generator activity. Given the few sensitive uses near the Project site and the minimal emissions produced from the Project, the project would not result in substantial emission sources during operation and would not expose nearby sensitive receptors to significant health risks.

The following thresholds of significance, obtained from SJVAPCD's GAMAQI, were used to determine whether the proposed project would result in a significant air quality impact under CEQA, as described below.

Construction Emissions of PM

Construction projects are required to comply with Regulation VIII, which indicates many measures to control fugitive dust, such as applying water to unpaved surfaces and areas, using non-toxic chemical or organic dust suppressants on unpaved roads and traffic areas, and limiting or reducing vehicle speed on unpaved roads and traffic areas. For projects in which construction related activities would disturb equal to or greater than 1-acre of surface area, the SJVAPCD recommends the preparation of a Dust Control Plan.

Criteria Pollutant Emissions

SJVAPCD's adopted CEQA thresholds of significance for criteria pollutant emissions. The thresholds are presented in Table 2. These thresholds address both construction and operational emissions. Determination of whether a project would exceed the applicable

thresholds of significance for criteria pollutants requires quantification of project specific emissions. A project would be considered to have a significant impact if its emissions exceed the criteria pollutant thresholds.

Ambient Air Quality

The thresholds of significance for Ambient Air Quality are based on the CAAQS and NAAQS. A project would be considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any CAAQS or NAAQS. The ambient air quality standards are presented in Table 1. SJVAPCD recommends that an air quality analysis be performed, utilizing dispersion modeling, for construction or operation of projects when on-site emissions exceed 100 pounds per day after implementation of all mitigation measures

Toxic Air Contaminants

The SJVAPCD's current thresholds of significance for toxic air contaminant (TAC) emissions from the operations of both permitted and non-permitted sources include carcinogens and non-carcinogens. Carcinogenic exposure occurs when maximally exposed individual risk equals or exceeds 20 in one million. Non-carcinogenic exposure occurs when hazard index equals or exceeds 1 for the Maximally Exposed Individual (acute) or hazard index equals or exceeds 1 for the Maximally Exposed Individual (chronic). The basis for risk threshold for SJVAPCD are as follows:

- Minimize health risks from new and modified sources of air pollution.
- Health risks from new and modified sources shall not be significant relative to the background risk levels and other risk levels that are typically accepted throughout the community.
- Avoid unreasonable restrictions on permitting.

The Office of Environmental Health Hazard Assessment (OEHHA) Risk Assessment Guidelines are the standards for estimating health risks. SJVAPCD's Risk Management Policy works with the OEHHA Risk Assessment Guidelines to determine significance.

Construction activities associated with the Project would result in short-term emissions of TACs, primarily from the use of diesel-powered heavy equipment. Diesel exhaust is identified by the CARB as a TAC due to the presence of DPM, which has been linked to increased cancer risk and other non-cancer health effects. During construction, equipment such as excavators, dozers, and pile drivers would release amounts of DPM. However, these emissions would be temporary, occurring only during construction, and would not represent a long-term source of TAC exposure.

Given that generators are also a source of TAC, the project will be producing operational TACs from the 50kW generator and 250 - 300kW generator used during the operation of the Project. Operational TAC emissions from diesel combustion are based on PM_{10} emissions, assuming that 100% of the PM_{10} emissions are DPM, as indicated in Table 6 above.

All pollutant levels for the Project are below the significance thresholds as shown in Table 6 and defined by SJVAPCD. Overall, the Project would not expose any sensitive receptors to substantial pollutant concentrations and a less than significant impact would occur.

d) **Less Than Significant Impact.**

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

While offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and the SJVAPCD. Any project with the potential to frequently expose members of the public to objectionable odors should be deemed to have a significant impact.

CEQA requires that an analysis of potential odor impacts be conducted for the following two situations:

- Generators – projects that would potentially generate odorous emissions proposed to be located near existing sensitive receptors or other land uses where people may congregate, and
- Receivers – residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources.

A qualitative assessment indicating that a project may reasonably be expected to generate odorous emissions in such quantities as to cause detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which may endanger the comfort, repose, health, or safety of any such person or the public, or which may cause, or have a natural tendency to cause, injury or damage to business or property (see California Health and Safety Code, Division 26, §41700) will have a significant adverse

air quality impact.

The project would not result in odors that would adversely affect a substantial number of people. The odor analysis includes consideration of construction-related odors. During construction, diesel equipment operating at the site may generate some nuisance odors. However, due to the temporary nature of construction, odors associated with project construction would not be significant. There will be no significant odors associated with ongoing operations, and the Project will be unmanned during operation.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for this project. The project's operation would not involve industrial processes or other activities that would generate substantial odors. Overall, odor impacts would be less than significant.

Issues	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

a) **Less than Significant Impact.**

Elevated Entitlements quantified GHG emissions resulting from the construction and operation of the project using default figures provided from CalEEMod Version 22.1.1.46.

Based on the results of the CalEEMod Model, the proposed project will result in 969.096 CO2e MT from construction, and 8.55 MT/year of CO_2e from operations, as shown in Table 8 above, Project Related GHG Emissions. Therefore, construction and operation of the project would not generate GHG emissions that would have a significant impact on the environment.

During construction of the project, GHGs would be emitted through the operation of construction equipment and from worker and vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil- based fuels creates GHGs (e.g., CO_2, CH_4, and N_2O). However, the State of California requires all vehicles to abide by strict environmental standards and maintain operating catalytic converters. The project will be exporting approximately 120 cubic yards of material to Kettleman Hills Facility, which is approximately 135 miles away from the Project site. The transportation of exported material has been included in the estimation of CO_2e produced during project construction.

The solar facility would be operated on an autonomous, unstaffed basis and monitored remotely from an existing off-site facility. The operation of the project would also include the use of a 50-kW standby generator that would act as a backup power supply to the Project communications and control house in the substation. Additionally, a 250-kW backup generator would be provided to run the existing on-site agricultural well for fire/water supply. The calculations for the emissions of greenhouse gases associated with the generator operation are provided in Appendix B. It is anticipated that maintenance requirements for the Project would be minimal as the PV arrays would operate with limited moving parts. As such, there would be a reduction of impacts compared to the current agricultural use which relies heavily on machinery to spread fertilizer and pesticides.

As the SJVAPCD determines significance of GHG emissions on the project's compliance with an approved GHG plan or mitigation program, the proposed utility-scale solar PV electricity generation aligns with BPS, compared to other types of electricity generation, such as fossil fueled power plants. The operation of the project would provide electric power with minimal GHG emissions over the life of the project when compared with traditional fossil-fueled power plants. Therefore, the project is consistent with state GHG policy to encourage solar power

development to reduce GHG emissions and improve air quality, and the levels of GHG emissions generated would be less than significant on the environment.

b) **Less Than Significant Impact.**

The proposed Project aligns with the County of Stanislaus General Plan Conservation/Open Space Element, which includes goals and policies to improve air quality, by reducing air quality impacts and referring to the SJVAPCD for discretionary review.

As mentioned above, the SJVAPCD determines significance of GHG emissions from the project's compliance with an approved GHG plan or mitigation program. SJVAPCD's CCAP identifies BPS and GHG reduction strategies and provides a mechanism for determining significance of GHG impacts and demonstrating project consistency with regional and state climate policies.

The proposed utility-scale solar PV electricity generation aligns with BPS, compared to other types of electricity generation, such as fossil fueled power plants. The operation of the project would provide electric power with minimal GHG emissions over the life of the project when compared with traditional fossil-fueled power plants. Therefore, the project is consistent with state GHG policy to encourage solar power development to reduce GHG emissions and improve air quality, and the levels of GHG emissions generated would be less than significant on the environment.

Therefore, no significant impacts are identified, and no mitigation is required.

11.0 References

Clean Air Act. United States Code, 42 U.S.C. §7401 et seq.

California Clean Air Act. California Health and Safety Code §39000 et seq.

Tanner Air Toxics Act (AB 1807). California Health and Safety Code §39650 et seq.

Assembly Bill 1493 (Pavley). California Vehicle Code §43018.5.

Senate Bill 375. California Government Code §65080(b)(2)(B).

Executive Order B-30-15. State of California.

California Air Resources Board (CARB). California Ambient Air Quality Standards.

Stanislaus Council of Governments (StanCOG). Regional Transportation Plan / Sustainable Communities Strategy.

San Joaquin Valley Air Pollution Control District (SJVAPCD). Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI).

San Joaquin Valley Air Pollution Control District (SJVAPCD). Air Quality Thresholds of Significance - Toxic Air Contaminants

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015 CEQA Air Quality Significance Thresholds.

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2006 PM_{10} Maintenance Plan. https://valleyair.org/rules-and-planning/air-quality-plans/particulate-matter-plans/2006-pm10-plan/

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2024 Plan for the 2012 Annual $PM_{2.5}$ Standard. https://valleyair.org/rules-and-planning/air-quality-plans/particulate-matter-plans/2024-plan-for-the-2012-pm25-standard/

San Joaquin Valley Air Pollution Control District (SJVAPCD). 2022 Ozone Plan. https://valleyair.org/rules-and-planning/air-quality-plans/ozone-plans/2022-ozone-plan-for-the-san-joaquin-valley/

Stanislaus County General Plan. Stanislaus County Planning and Community Development Department. Adopted August 2016.

San Joaquin Valley Air Pollution Control District (SJVAPCD). *Climate Change Action Plan (CCAP)*. Adopted August 21, 2008

California Air Resources Board (CARB). *2022 Scoping Plan for Achieving Carbon Neutrality*. November 2022.

US EPA General Conformity: Appendix A Sample Emission Calculation, Internal Combustion Sources, October 20,2025. https://www.epa.gov/general-conformity

US EPA Greenhouse Gas Inventory Guidance Direct Emissions from Stationary Combustion Sources

CalEEMod Model, Version 2022.1.1.46

Appendix A - CalEEMod Detailed Report

HEC MVP Stanislaus Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	HEC MVP Stanislaus
Construction Start Date	5/1/2027
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.10000
Precipitation (days)	25.4000
Location	37.52294102801601, -121.24090907025563
County	Stanislaus
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2208
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric

Data Field	Value
App Version	2022.1.1.46

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
User Defined Industrial	1.000000	User Defined Unit	738.620	0.00000	200,000	—	—	Solar Array

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Energy	E-24*	Provide Battery Storage

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.89653	5.90481	41.7615	35.1319	0.06127	2.92110	7.79965	8.97138	2.68741	3.97123	5.04922	—	6,805.69	6,805.69	0.27144	0.39240	5.55526	6,833.24

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.81985	6.62115	47.3378	41.1511	0.06127	3.14266	6.23780	7.28188	2.89124	1.73258	3.29331	—	7,035.68	7,035.68	0.27276	0.11768	0.15843	7,077.67
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.68558	3.12238	22.5604	18.0573	0.02686	1.57419	2.80234	3.31871	1.44825	0.88708	1.63767	—	3,012.57	3,012.57	0.11969	0.04939	1.14125	3,026.31
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.67262	0.56983	4.11727	3.29545	0.00490	0.28729	0.51143	0.60566	0.26431	0.16189	0.29887	—	498.766	498.766	0.01982	0.00818	0.18895	501.039

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.70869	3.12291	28.0135	29.0698	0.06127	1.17173	7.79965	8.97138	1.07799	3.97123	5.04922	—	6,805.69	6,805.69	0.27144	0.39240	5.55526	6,833.24
2028	6.89653	5.90481	41.7615	35.1319	0.03598	2.92110	1.52471	4.44581	2.68741	0.35739	3.04480	—	5,307.79	5,307.79	0.18376	0.09138	4.89840	5,344.51
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2027	6.67400	5.71227	41.5058	40.2547	0.06127	2.61446	6.23780	7.28188	2.40530	1.73258	2.80737	—	7,035.68	7,035.68	0.27276	0.11766	0.15843	7,077.67
2028	7.81985	6.62115	47.3378	41.1511	0.05216	3.14266	1.71530	4.85795	2.89124	0.40206	3.29331	—	7,008.29	7,008.29	0.27119	0.11768	0.14313	7,050.28
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.70101	1.43520	12.1902	13.0189	0.02686	0.51637	2.80234	3.31871	0.47514	0.88708	1.36222	—	3,012.57	3,012.57	0.11969	0.03536	0.20430	3,026.31
2028	3.68558	3.12238	22.5604	18.0573	0.01952	1.57419	0.80899	2.38318	1.44825	0.18942	1.63767	—	2,808.68	2,808.68	0.10198	0.04939	1.14125	2,827.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.31043	0.26192	2.22471	2.37594	0.00490	0.09424	0.51143	0.60566	0.08671	0.16189	0.24860	—	498.766	498.766	0.01982	0.00585	0.03382	501.039
2028	0.67262	0.56983	4.11727	3.29545	0.00356	0.28729	0.14764	0.43493	0.26431	0.03457	0.29887	—	465.010	465.010	0.01688	0.00818	0.18895	468.057

2.2.2. Onsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.63178	3.05170	27.9724	28.2794	0.06093	1.17173	7.66623	8.83797	1.07799	3.93995	5.01795	—	6,598.08	6,598.08	0.26765	0.05353	0.00000	6,620.72
2028	6.10031	5.12182	41.3481	26.7184	0.03598	2.92110	0.00000	2.92110	2.68741	0.00000	2.68741	—	3,769.22	3,769.22	0.15290	0.03058	0.00000	3,782.16
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.82289	4.88596	40.8406	32.4549	0.06093	2.61446	6.07099	7.11406	2.40530	1.69292	2.65254	—	6,598.08	6,598.08	0.26765	0.05353	0.00000	6,620.72
2028	7.00347	5.87813	46.7360	33.8946	0.05216	3.14266	0.00000	3.14266	2.89124	0.00000	2.89124	—	5,462.55	5,462.55	0.22158	0.04432	0.00000	5,481.30
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2027	1.64843	1.38495	12.0952	12.5273	0.02652	0.51538	2.68862	3.20400	0.47415	0.85990	1.33405	—	2,866.38	2,866.38	0.11627	0.02325	0.00000	2,876.22
2028	3.29178	2.76376	22.3047	14.4490	0.01952	1.57419	0.00000	1.57419	1.44825	0.00000	1.44825	—	2,045.01	2,045.01	0.08295	0.01659	0.00000	2,052.03
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.30084	0.25275	2.20738	2.28624	0.00484	0.09406	0.49067	0.58473	0.08653	0.15693	0.24346	—	474.562	474.562	0.01925	0.00385	0.00000	476.190
2028	0.60075	0.50439	4.07060	2.63695	0.00356	0.28729	0.00000	0.28729	0.26431	0.00000	0.26431	—	338.575	338.575	0.01373	0.00275	0.00000	339.737

2.2.3. Offsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.16433	0.10299	2.82784	1.36405	0.01602	0.04577	0.75584	0.80160	0.04577	0.20243	0.24820	—	2,436.82	2,436.82	0.04045	0.36460	5.55526	2,552.03
2028	0.79622	0.78299	0.41332	8.41341	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,538.57	1,538.57	0.03086	0.06080	4.89840	1,562.36
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.85111	0.82630	0.66524	7.79983	0.00034	0.00102	1.71530	1.71530	0.00102	0.40206	0.40206	—	1,576.23	1,576.23	0.04960	0.07336	0.15843	1,599.49
2028	0.81638	0.74302	0.60180	7.25652	0.00000	0.00000	1.71530	1.71530	0.00000	0.40206	0.40206	—	1,545.74	1,545.74	0.04960	0.07336	0.14313	1,568.98
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05258	0.05025	0.09498	0.49153	0.00034	0.00099	0.11372	0.11471	0.00099	0.02718	0.02817	—	146.194	146.194	0.00342	0.01210	0.20430	150.090
2028	0.39379	0.35862	0.25574	3.60822	0.00000	0.00000	0.80899	0.80899	0.00000	0.18942	0.18942	—	763.669	763.669	0.01903	0.03280	1.14125	775.059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2027	0.00959	0.00917	0.01733	0.08970	0.00006	0.00018	0.02075	0.02094	0.00018	0.00496	0.00514	—	24.2040	24.2040	0.00057	0.00200	0.03382	24.8491
2028	0.07187	0.06545	0.04667	0.65850	0.00000	0.00000	0.14764	0.14764	0.00000	0.03457	0.03457	—	126.434	126.434	0.00315	0.00543	0.18895	128.320

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.70869	3.12291	28.0135	29.0698	0.06127	1.17173	7.79965	8.97138	1.07799	3.97123	5.04922	—	6,805.69	6,805.69	0.27144	0.39240	5.55526	6,833.24
2028	6.89653	5.90481	41.7615	35.1319	0.03598	2.92110	1.52471	4.44581	2.68741	0.35739	3.04480	—	5,307.79	5,307.79	0.18376	0.09138	4.89840	5,344.51
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.67400	5.71227	41.5058	40.2547	0.06127	2.61446	6.23780	7.28188	2.40530	1.73258	2.80737	—	7,035.68	7,035.68	0.27276	0.11766	0.15843	7,077.67
2028	7.81985	6.62115	47.3378	41.1511	0.05216	3.14266	1.71530	4.85795	2.89124	0.40206	3.29331	—	7,008.29	7,008.29	0.27119	0.11768	0.14313	7,050.28
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.70101	1.43520	12.1902	13.0189	0.02686	0.51637	2.80234	3.31871	0.47514	0.88708	1.36222	—	3,012.57	3,012.57	0.11969	0.03536	0.20430	3,026.31
2028	3.68558	3.12238	22.5604	18.0573	0.01952	1.57419	0.80899	2.38318	1.44825	0.18942	1.63767	—	2,808.68	2,808.68	0.10198	0.04939	1.14125	2,827.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.31043	0.26192	2.22471	2.37594	0.00490	0.09424	0.51143	0.60566	0.08671	0.16189	0.24860	—	498.766	498.766	0.01982	0.00585	0.03382	501.039
2028	0.67262	0.56983	4.11727	3.29545	0.00356	0.28729	0.14764	0.43493	0.26431	0.03457	0.29887	—	465.010	465.010	0.01688	0.00818	0.18895	468.057

2.2.5. Onsite Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	3.63178	3.05170	27.9724	28.2794	0.06093	1.17173	7.66623	8.83797	1.07799	3.93995	5.01795	—	6,598.08	6,598.08	0.26765	0.05353	0.00000	6,620.72
2028	6.10031	5.12182	41.3481	26.7184	0.03598	2.92110	0.00000	2.92110	2.68741	0.00000	2.68741	—	3,769.22	3,769.22	0.15290	0.03058	0.00000	3,782.16
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.82289	4.88596	40.8406	32.4549	0.06093	2.61446	6.07099	7.11406	2.40530	1.69292	2.65254	—	6,598.08	6,598.08	0.26765	0.05353	0.00000	6,620.72
2028	7.00347	5.87813	46.7360	33.8946	0.05216	3.14266	0.00000	3.14266	2.89124	0.00000	2.89124	—	5,462.55	5,462.55	0.22158	0.04432	0.00000	5,481.30
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.64843	1.38495	12.0952	12.5273	0.02652	0.51538	2.68862	3.20400	0.47415	0.85990	1.33405	—	2,866.38	2,866.38	0.11627	0.02325	0.00000	2,876.22
2028	3.29178	2.76376	22.3047	14.4490	0.01952	1.57419	0.00000	1.57419	1.44825	0.00000	1.44825	—	2,045.01	2,045.01	0.08295	0.01659	0.00000	2,052.03
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.30084	0.25275	2.20738	2.28624	0.00484	0.09406	0.49067	0.58473	0.08653	0.15693	0.24346	—	474.562	474.562	0.01925	0.00385	0.00000	476.190
2028	0.60075	0.50439	4.07060	2.63695	0.00356	0.28729	0.00000	0.28729	0.26431	0.00000	0.26431	—	338.575	338.575	0.01373	0.00275	0.00000	339.737

2.2.6. Offsite Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.16433	0.10299	2.82784	1.36405	0.01602	0.04577	0.75584	0.80160	0.04577	0.20243	0.24820	—	2,436.82	2,436.82	0.04045	0.36460	5.55526	2,552.03
2028	0.79622	0.78299	0.41332	8.41341	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,538.57	1,538.57	0.03086	0.06080	4.89840	1,562.36
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.85111	0.82630	0.66524	7.79983	0.00034	0.00102	1.71530	1.71530	0.00102	0.40206	0.40206	—	1,576.23	1,576.23	0.04960	0.07336	0.15843	1,599.49
2028	0.81638	0.74302	0.60180	7.25652	0.00000	0.00000	1.71530	1.71530	0.00000	0.40206	0.40206	—	1,545.74	1,545.74	0.04960	0.07336	0.14313	1,568.98
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.05258	0.05025	0.09498	0.49153	0.00034	0.00099	0.11372	0.11471	0.00099	0.02718	0.02817	—	146.194	146.194	0.00342	0.01210	0.20430	150.090
2028	0.39379	0.35862	0.25574	3.60822	0.00000	0.00000	0.80899	0.80899	0.00000	0.18942	0.18942	—	763.669	763.669	0.01903	0.03280	1.14125	775.059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.00959	0.00917	0.01733	0.08970	0.00006	0.00018	0.02075	0.02094	0.00018	0.00496	0.00514	—	24.2040	24.2040	0.00057	0.00200	0.03382	24.8491
2028	0.07187	0.06545	0.04667	0.65850	0.00000	0.00000	0.14764	0.14764	0.00000	0.03457	0.03457	—	126.434	126.434	0.00315	0.00543	0.18895	128.320

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	14.0240	14.0240	0.00093	0.00055	0.03342	14.2431

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Mit.	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	14.0240	14.0240	0.00093	0.00055	0.03342	14.2431
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	13.1891	13.1891	0.00097	0.00058	0.00087	13.3876
Mit.	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	13.1891	13.1891	0.00097	0.00058	0.00087	13.3876
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.00356	0.00328	0.00374	0.02668	0.00007	0.00006	0.00651	0.00657	0.00006	0.00166	0.00171	0.00000	10.5457	10.5457	0.00084	0.00042	0.01031	10.7026
Mit.	0.00356	0.00328	0.00374	0.02668	0.00007	0.00006	0.00651	0.00657	0.00006	0.00166	0.00171	0.00000	10.5457	10.5457	0.00084	0.00042	0.01031	10.7026
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	0.00000	1.74596	1.74596	0.00014	0.00007	0.00171	1.77194
Mit.	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	0.00000	1.74596	1.74596	0.00014	0.00007	0.00171	1.77194
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	10.6166	10.6166	0.00038	0.00048	0.03342	10.8020
Area	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	14.0240	14.0240	0.00093	0.00055	0.03342	14.2431
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	9.78171	9.78171	0.00042	0.00051	0.00087	9.94644
Area	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	13.1891	13.1891	0.00097	0.00058	0.00087	13.3876
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00356	0.00328	0.00374	0.02668	0.00007	0.00006	0.00651	0.00657	0.00006	0.00166	0.00171	—	7.13828	7.13828	0.00028	0.00036	0.01031	7.26151
Area	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00356	0.00328	0.00374	0.02668	0.00007	0.00006	0.00651	0.00657	0.00006	0.00166	0.00171	0.00000	10.5457	10.5457	0.00084	0.00042	0.01031	10.7026
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	—	1.18182	1.18182	0.00005	0.00006	0.00171	1.20223
Area	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.56414	0.56414	0.00009	0.00001	—	0.56972
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	0.00000	1.74596	1.74596	0.00014	0.00007	0.00171	1.77194

2.5. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	10.6166	10.6166	0.00038	0.00048	0.03342	10.8020
Area	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	14.0240	14.0240	0.00093	0.00055	0.03342	14.2431

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	9.78171	9.78171	0.00042	0.00051	0.00087	9.94644
Area	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	0.00000	13.1891	13.1891	0.00097	0.00058	0.00087	13.3876
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00356	0.00328	0.00374	0.02668	0.00007	0.00006	0.00651	0.00657	0.00006	0.00166	0.00171	—	7.13828	7.13828	0.00028	0.00036	0.01031	7.26151
Area	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00356	0.00328	0.00374	0.02668	0.00007	0.00006	0.00651	0.00657	0.00006	0.00166	0.00171	0.00000	10.5457	10.5457	0.00084	0.00042	0.01031	10.7026
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	—	1.18182	1.18182	0.00005	0.00006	0.00171	1.20223
Area	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Energy	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Water	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.56414	0.56414	0.00009	0.00001	—	0.56972
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Total	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	0.00000	1.74596	1.74596	0.00014	0.00007	0.00171	1.77194

3. Construction Emissions Details

3.1. Demolition (2027)

3.1.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63907	2.21478	19.9005	18.6307	0.03253	0.79594	—	0.79594	0.73226	—	0.73226	—	3,426.90	3,426.90	0.13901	0.02780	—	3,438.66
Demolition	—	—	—	—	—	—	1.94423	1.94423	—	0.29441	0.29441	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03615	0.03034	0.27261	0.25522	0.00045	0.01090	—	0.01090	0.01003	—	0.01003	—	46.9438	46.9438	0.00190	0.00038	—	47.1049

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Demolition	—	—	—	—	—	—	0.02663	0.02663	—	0.00403	0.00403	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00660	0.00554	0.04975	0.04658	0.00008	0.00199	—	0.00199	0.00183	—	0.00183	—	7.77208	7.77208	0.00032	0.00006	—	7.79875
Demolition	—	—	—	—	—	—	0.00486	0.00486	—	0.00074	0.00074	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06593	0.06104	0.03523	0.67753	0.00000	0.00000	0.11435	0.11435	0.00000	0.02680	0.02680	—	117.696	117.696	0.00231	0.00456	0.40667	119.520
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.09840	0.04195	2.79261	0.68652	0.01602	0.04577	0.64148	0.68725	0.04577	0.17563	0.22139	—	2,319.12	2,319.12	0.03814	0.36004	5.14859	2,432.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.00078	0.00076	0.00055	0.00739	0.00000	0.00000	0.00154	0.00154	0.00000	0.00036	0.00036	—	1.48333	1.48333	0.00004	0.00007	0.00240	1.50672
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00133	0.00055	0.03991	0.00948	0.00022	0.00063	0.00868	0.00931	0.00063	0.00238	0.00301	—	31.7772	31.7772	0.00052	0.00493	0.03048	33.2905
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00014	0.00010	0.00135	0.00000	0.00000	0.00028	0.00028	0.00000	0.00007	0.00007	—	0.24558	0.24558	0.00001	0.00001	0.00040	0.24946
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00024	0.00010	0.00728	0.00173	0.00004	0.00011	0.00158	0.00170	0.00011	0.00043	0.00055	—	5.26108	5.26108	0.00009	0.00082	0.00505	5.51162

3.1.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63907	2.21478	19.9005	18.6307	0.03253	0.79594	—	0.79594	0.73226	—	0.73226	—	3,426.90	3,426.90	0.13901	0.02780	—	3,438.66
Demolition	—	—	—	—	—	—	1.94423	1.94423	—	0.29441	0.29441	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.03615	0.03034	0.27261	0.25522	0.00045	0.01090	—	0.01090	0.01003	—	0.01003	—	46.9438	46.9438	0.00190	0.00038	—	47.1049
Demolition	—	—	—	—	—	—	0.02663	0.02663	—	0.00403	0.00403	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00660	0.00554	0.04975	0.04658	0.00008	0.00199	—	0.00199	0.00183	—	0.00183	—	7.77208	7.77208	0.00032	0.00006	—	7.79875
Demolition	—	—	—	—	—	—	0.00486	0.00486	—	0.00074	0.00074	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06593	0.06104	0.03523	0.67753	0.00000	0.00000	0.11435	0.11435	0.00000	0.02680	0.02680	—	117.696	117.696	0.00231	0.00456	0.40667	119.520
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.09840	0.04195	2.79261	0.68652	0.01602	0.04577	0.64148	0.68725	0.04577	0.17563	0.22139	—	2,319.12	2,319.12	0.03814	0.36004	5.14859	2,432.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00078	0.00076	0.00055	0.00739	0.00000	0.00000	0.00154	0.00154	0.00000	0.00036	0.00036	—	1.48333	1.48333	0.00004	0.00007	0.00240	1.50672
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00133	0.00055	0.03991	0.00948	0.00022	0.00063	0.00868	0.00931	0.00063	0.00238	0.00301	—	31.7772	31.7772	0.00052	0.00493	0.03048	33.2905
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00014	0.00010	0.00135	0.00000	0.00000	0.00028	0.00028	0.00000	0.00007	0.00007	—	0.24558	0.24558	0.00001	0.00001	0.00040	0.24946
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00024	0.00010	0.00728	0.00173	0.00004	0.00011	0.00158	0.00170	0.00011	0.00043	0.00055	—	5.26108	5.26108	0.00009	0.00082	0.00505	5.51162

3.2. Site Preparation (2027)

3.2.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63178	3.05170	27.9724	28.2794	0.04891	1.17173	—	1.17173	1.07799	—	1.07799	—	5,297.82	5,297.82	0.21490	0.04298	—	5,316.00
Dust From Material Movement	—	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22885	0.19230	1.76265	1.78199	0.00308	0.07384	—	0.07384	0.06793	—	0.06793	—	333.835	333.835	0.01354	0.00271	—	334.981
Dust From Material Movement	—	—	—	—	—	—	0.48308	0.48308	—	0.24827	0.24827	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04177	0.03509	0.32168	0.32521	0.00056	0.01347	—	0.01347	0.01240	—	0.01240	—	55.2702	55.2702	0.00224	0.00045	—	55.4599
Dust From Material Movement	—	—	—	—	—	—	0.08816	0.08816	—	0.04531	0.04531	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07692	0.07121	0.04110	0.79045	0.00000	0.00000	0.13341	0.13341	0.00000	0.03127	0.03127	—	137.313	137.313	0.00270	0.00532	0.47445	139.440
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00420	0.00410	0.00293	0.03964	0.00000	0.00000	0.00827	0.00827	0.00000	0.00194	0.00194	—	7.96055	7.96055	0.00022	0.00036	0.01290	8.08607
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00077	0.00075	0.00053	0.00723	0.00000	0.00000	0.00151	0.00151	0.00000	0.00035	0.00035	—	1.31796	1.31796	0.00004	0.00006	0.00214	1.33874
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	3.63178	3.05170	27.9724	28.2794	0.04891	1.17173	—	1.17173	1.07799	—	1.07799	—	5,297.82	5,297.82	0.21490	0.04298	—	5,316.00
Dust From Material Movement	—	—	—	—	—	—	7.66623	7.66623	—	3.93995	3.93995	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22885	0.19230	1.76265	1.78199	0.00308	0.07384	—	0.07384	0.06793	—	0.06793	—	333.835	333.835	0.01354	0.00271	—	334.981
Dust From Material Movement	—	—	—	—	—	—	0.48308	0.48308	—	0.24827	0.24827	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04177	0.03509	0.32168	0.32521	0.00056	0.01347	—	0.01347	0.01240	—	0.01240	—	55.2702	55.2702	0.00224	0.00045	—	55.4599

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.08816	0.08816	—	0.04531	0.04531	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07692	0.07121	0.04110	0.79045	0.00000	0.00000	0.13341	0.13341	0.00000	0.03127	0.03127	—	137.313	137.313	0.00270	0.00532	0.47445	139.440
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00420	0.00410	0.00293	0.03964	0.00000	0.00000	0.00827	0.00827	0.00000	0.00194	0.00194	—	7.96055	7.96055	0.00022	0.00036	0.01290	8.08607
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00077	0.00075	0.00053	0.00723	0.00000	0.00000	0.00151	0.00151	0.00000	0.00035	0.00035	—	1.31796	1.31796	0.00004	0.00006	0.00214	1.33874

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Grading (2027)

3.3.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.50534	2.94546	25.5801	27.2816	0.06093	1.04307	—	1.04307	0.95962	—	0.95962	—	6,598.08	6,598.08	0.26765	0.05353	—	6,620.72
Dust From Material Movement	—	—	—	—	—	—	6.07099	6.07099	—	1.69292	1.69292	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.50534	2.94546	25.5801	27.2816	0.06093	1.04307	—	1.04307	0.95962	—	0.95962	—	6,598.08	6,598.08	0.26765	0.05353	—	6,620.72

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	6.07099	6.07099	—	1.69292	1.69292	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.25808	1.05714	9.18080	9.79149	0.02187	0.37436	—	0.37436	0.34441	—	0.34441	—	2,368.08	2,368.08	0.09606	0.01921	—	2,376.20
Dust From Material Movement	—	—	—	—	—	—	2.17890	2.17890	—	0.60760	0.60760	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22960	0.19293	1.67550	1.78695	0.00399	0.06832	—	0.06832	0.06286	—	0.06286	—	392.062	392.062	0.01590	0.00318	—	393.408
Dust From Material Movement	—	—	—	—	—	—	0.39765	0.39765	—	0.11089	0.11089	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08791	0.08139	0.04697	0.90337	0.00000	0.00000	0.15247	0.15247	0.00000	0.03574	0.03574	—	156.929	156.929	0.00309	0.00608	0.54223	159.360
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00149	0.00043	0.05250	0.00808	0.00034	0.00102	0.01433	0.01535	0.00102	0.00392	0.00495	—	50.6818	50.6818	0.00071	0.00787	0.11501	53.1593
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07565	0.07345	0.05913	0.69332	0.00000	0.00000	0.15247	0.15247	0.00000	0.03574	0.03574	—	140.109	140.109	0.00441	0.00652	0.01408	142.177
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00147	0.00042	0.05601	0.00812	0.00034	0.00102	0.01433	0.01535	0.00102	0.00392	0.00495	—	50.6866	50.6866	0.00071	0.00787	0.00298	53.0528
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02731	0.02668	0.01904	0.25802	0.00000	0.00000	0.05383	0.05383	0.00000	0.01260	0.01260	—	51.8177	51.8177	0.00142	0.00234	0.08400	52.6348
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00053	0.00015	0.01971	0.00291	0.00012	0.00037	0.00508	0.00545	0.00037	0.00139	0.00176	—	18.1906	18.1906	0.00025	0.00282	0.01784	19.0564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00498	0.00487	0.00347	0.04709	0.00000	0.00000	0.00982	0.00982	0.00000	0.00230	0.00230	—	8.57902	8.57902	0.00024	0.00039	0.01391	8.71430
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00010	0.00003	0.00360	0.00053	0.00002	0.00007	0.00093	0.00099	0.00007	0.00025	0.00032	—	3.01167	3.01167	0.00004	0.00047	0.00295	3.15500

3.3.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.50534	2.94546	25.5801	27.2816	0.06093	1.04307	—	1.04307	0.95962	—	0.95962	—	6,598.08	6,598.08	0.26765	0.05353	—	6,620.72
Dust From Material Movement	—	—	—	—	—	—	6.07099	6.07099	—	1.69292	1.69292	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.50534	2.94546	25.5801	27.2816	0.06093	1.04307	—	1.04307	0.95962	—	0.95962	—	6,598.08	6,598.08	0.26765	0.05353	—	6,620.72
Dust From Material Movement	—	—	—	—	—	—	6.07099	6.07099	—	1.69292	1.69292	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.25808	1.05714	9.18080	9.79149	0.02187	0.37436	—	0.37436	0.34441	—	0.34441	—	2,368.08	2,368.08	0.09606	0.01921	—	2,376.20

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	2.17890	2.17890	—	0.60760	0.60760	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22960	0.19293	1.67550	1.78695	0.00399	0.06832	—	0.06832	0.06286	—	0.06286	—	392.062	392.062	0.01590	0.00318	—	393.408
Dust From Material Movement	—	—	—	—	—	—	0.39765	0.39765	—	0.11089	0.11089	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08791	0.08139	0.04697	0.90337	0.00000	0.00000	0.15247	0.15247	0.00000	0.03574	0.03574	—	156.929	156.929	0.00309	0.00608	0.54223	159.360
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00149	0.00043	0.05250	0.00808	0.00034	0.00102	0.01433	0.01535	0.00102	0.00392	0.00495	—	50.6818	50.6818	0.00071	0.00787	0.11501	53.1593

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07565	0.07345	0.05913	0.69332	0.00000	0.00000	0.15247	0.15247	0.00000	0.03574	0.03574	—	140.109	140.109	0.00441	0.00652	0.01408	142.177
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00147	0.00042	0.05601	0.00812	0.00034	0.00102	0.01433	0.01535	0.00102	0.00392	0.00495	—	50.6866	50.6866	0.00071	0.00787	0.00298	53.0528
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02731	0.02668	0.01904	0.25802	0.00000	0.00000	0.05383	0.05383	0.00000	0.01260	0.01260	—	51.8177	51.8177	0.00142	0.00234	0.08400	52.6348
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00053	0.00015	0.01971	0.00291	0.00012	0.00037	0.00508	0.00545	0.00037	0.00139	0.00176	—	18.1906	18.1906	0.00025	0.00282	0.01784	19.0564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00498	0.00487	0.00347	0.04709	0.00000	0.00000	0.00982	0.00982	0.00000	0.00230	0.00230	—	8.57902	8.57902	0.00024	0.00039	0.01391	8.71430
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00010	0.00003	0.00360	0.00053	0.00002	0.00007	0.00093	0.00099	0.00007	0.00025	0.00032	—	3.01167	3.01167	0.00004	0.00047	0.00295	3.15500

3.4. Building Construction (2027)

3.4.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.89521	4.10904	35.3120	25.2865	0.03597	2.37607	—	2.37607	2.18599	—	2.18599	—	3,764.87	3,764.87	0.15272	0.03054	—	3,777.79
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10538	0.08845	0.76014	0.54433	0.00077	0.05115	—	0.05115	0.04706	—	0.04706	—	81.0441	81.0441	0.00329	0.00066	—	81.3222
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01923	0.01614	0.13873	0.09934	0.00014	0.00933	—	0.00933	0.00859	—	0.00859	—	13.4178	13.4178	0.00054	0.00011	—	13.4638
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75654	0.73449	0.59132	6.93319	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,401.09	1,401.09	0.04409	0.06521	0.14083	1,421.77
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01638	0.01600	0.01142	0.15476	0.00000	0.00000	0.03229	0.03229	0.00000	0.00756	0.00756	—	31.0793	31.0793	0.00085	0.00140	0.05038	31.5694
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00299	0.00292	0.00208	0.02824	0.00000	0.00000	0.00589	0.00589	0.00000	0.00138	0.00138	—	5.14554	5.14554	0.00014	0.00023	0.00834	5.22668
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	4.89521	4.10904	35.3120	25.2865	0.03597	2.37607	—	2.37607	2.18599	—	2.18599	—	3,764.87	3,764.87	0.15272	0.03054	—	3,777.79
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10538	0.08845	0.76014	0.54433	0.00077	0.05115	—	0.05115	0.04706	—	0.04706	—	81.0441	81.0441	0.00329	0.00066	—	81.3222
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01923	0.01614	0.13873	0.09934	0.00014	0.00933	—	0.00933	0.00859	—	0.00859	—	13.4178	13.4178	0.00054	0.00011	—	13.4638
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75654	0.73449	0.59132	6.93319	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,401.09	1,401.09	0.04409	0.06521	0.14083	1,421.77

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01638	0.01600	0.01142	0.15476	0.00000	0.00000	0.03229	0.03229	0.00000	0.00756	0.00756	—	31.0793	31.0793	0.00085	0.00140	0.05038	31.5694
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00299	0.00292	0.00208	0.02824	0.00000	0.00000	0.00589	0.00589	0.00000	0.00138	0.00138	—	5.14554	5.14554	0.00014	0.00023	0.00834	5.22668
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Building Construction (2028)

3.5.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.10031	5.12182	41.3481	26.7184	0.03598	2.92110	—	2.92110	2.68741	—	2.68741	—	3,769.22	3,769.22	0.15290	0.03058	—	3,782.16
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.10031	5.12182	41.3481	26.7184	0.03598	2.92110	—	2.92110	2.68741	—	2.68741	—	3,769.22	3,769.22	0.15290	0.03058	—	3,782.16
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.28295	2.75636	22.2519	14.3788	0.01936	1.57202	—	1.57202	1.44626	—	1.44626	—	2,028.45	2,028.45	0.08228	0.01646	—	2,035.41
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59914	0.50304	4.06098	2.62413	0.00353	0.28689	—	0.28689	0.26394	—	0.26394	—	335.832	335.832	0.01362	0.00272	—	336.985
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.79622	0.78299	0.41332	8.41341	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,538.57	1,538.57	0.03086	0.06080	4.89840	1,562.36

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72567	0.66046	0.53493	6.45024	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,373.99	1,373.99	0.04409	0.06521	0.12722	1,394.65
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39290	0.35781	0.25516	3.60004	0.00000	0.00000	0.80715	0.80715	0.00000	0.18899	0.18899	—	761.937	761.937	0.01898	0.03272	1.13866	773.301
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07170	0.06530	0.04657	0.65701	0.00000	0.00000	0.14731	0.14731	0.00000	0.03449	0.03449	—	126.147	126.147	0.00314	0.00542	0.18852	128.029
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	6.10031	5.12182	41.3481	26.7184	0.03598	2.92110	—	2.92110	2.68741	—	2.68741	—	3,769.22	3,769.22	0.15290	0.03058	—	3,782.16
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.10031	5.12182	41.3481	26.7184	0.03598	2.92110	—	2.92110	2.68741	—	2.68741	—	3,769.22	3,769.22	0.15290	0.03058	—	3,782.16
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.28295	2.75636	22.2519	14.3788	0.01936	1.57202	—	1.57202	1.44626	—	1.44626	—	2,028.45	2,028.45	0.08228	0.01646	—	2,035.41
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59914	0.50304	4.06098	2.62413	0.00353	0.28689	—	0.28689	0.26394	—	0.26394	—	335.832	335.832	0.01362	0.00272	—	336.985
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.79622	0.78299	0.41332	8.41341	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,538.57	1,538.57	0.03086	0.06080	4.89840	1,562.36
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72567	0.66046	0.53493	6.45024	0.00000	0.00000	1.52471	1.52471	0.00000	0.35739	0.35739	—	1,373.99	1,373.99	0.04409	0.06521	0.12722	1,394.65
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39290	0.35781	0.25516	3.60004	0.00000	0.00000	0.80715	0.80715	0.00000	0.18899	0.18899	—	761.937	761.937	0.01898	0.03272	1.13866	773.301
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07170	0.06530	0.04657	0.65701	0.00000	0.00000	0.14731	0.14731	0.00000	0.03449	0.03449	—	126.147	126.147	0.00314	0.00542	0.18852	128.029
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Pole Installation (2027)

3.6.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92768	0.77693	5.52852	7.16837	0.01619	0.23839	—	0.23839	0.21932	—	0.21932	—	1,694.58	1,694.58	0.06874	0.01375	—	1,700.39
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01997	0.01672	0.11901	0.15431	0.00035	0.00513	—	0.00513	0.00472	—	0.00472	—	36.4782	36.4782	0.00148	0.00030	—	36.6034
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00364	0.00305	0.02172	0.02816	0.00006	0.00094	—	0.00094	0.00086	—	0.00086	—	6.03938	6.03938	0.00024	0.00005	—	6.06011
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09457	0.09181	0.07392	0.86665	0.00000	0.00000	0.19059	0.19059	0.00000	0.04467	0.04467	—	175.137	175.137	0.00551	0.00815	0.01760	177.721
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00205	0.00200	0.00143	0.01934	0.00000	0.00000	0.00404	0.00404	0.00000	0.00094	0.00094	—	3.88492	3.88492	0.00011	0.00018	0.00630	3.94618
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00037	0.00037	0.00026	0.00353	0.00000	0.00000	0.00074	0.00074	0.00000	0.00017	0.00017	—	0.64319	0.64319	0.00002	0.00003	0.00104	0.65333
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92768	0.77693	5.52852	7.16837	0.01619	0.23839	—	0.23839	0.21932	—	0.21932	—	1,694.58	1,694.58	0.06874	0.01375	—	1,700.39
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01997	0.01672	0.11901	0.15431	0.00035	0.00513	—	0.00513	0.00472	—	0.00472	—	36.4782	36.4782	0.00148	0.00030	—	36.6034
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00364	0.00305	0.02172	0.02816	0.00006	0.00094	—	0.00094	0.00086	—	0.00086	—	6.03938	6.03938	0.00024	0.00005	—	6.06011
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09457	0.09181	0.07392	0.86665	0.00000	0.00000	0.19059	0.19059	0.00000	0.04467	0.04467	—	175.137	175.137	0.00551	0.00815	0.01760	177.721
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00205	0.00200	0.00143	0.01934	0.00000	0.00000	0.00404	0.00404	0.00000	0.00094	0.00094	—	3.88492	3.88492	0.00011	0.00018	0.00630	3.94618
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00037	0.00037	0.00026	0.00353	0.00000	0.00000	0.00074	0.00074	0.00000	0.00017	0.00017	—	0.64319	0.64319	0.00002	0.00003	0.00104	0.65333
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Pole Installation (2028)

3.7.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90316	0.75632	5.38782	7.17614	0.01617	0.22156	—	0.22156	0.20383	—	0.20383	—	1,693.33	1,693.33	0.06869	0.01374	—	1,699.14
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00884	0.00740	0.05272	0.07022	0.00016	0.00217	—	0.00217	0.00199	—	0.00199	—	16.5688	16.5688	0.00067	0.00013	—	16.6257
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00161	0.00135	0.00962	0.01281	0.00003	0.00040	—	0.00040	0.00036	—	0.00036	—	2.74315	2.74315	0.00011	0.00002	—	2.75257
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09071	0.08256	0.06687	0.80628	0.00000	0.00000	0.19059	0.19059	0.00000	0.04467	0.04467	—	171.749	171.749	0.00551	0.00815	0.01590	174.332
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00089	0.00081	0.00058	0.00818	0.00000	0.00000	0.00183	0.00183	0.00000	0.00043	0.00043	—	1.73168	1.73168	0.00004	0.00007	0.00259	1.75750
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00016	0.00015	0.00011	0.00149	0.00000	0.00000	0.00033	0.00033	0.00000	0.00008	0.00008	—	0.28670	0.28670	0.00001	0.00001	0.00043	0.29097
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.3. Onsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.90316	0.75632	5.38782	7.17614	0.01617	0.22156	—	0.22156	0.20383	—	0.20383	—	1,693.33	1,693.33	0.06869	0.01374	—	1,699.14
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00884	0.00740	0.05272	0.07022	0.00016	0.00217	—	0.00217	0.00199	—	0.00199	—	16.5688	16.5688	0.00067	0.00013	—	16.6257
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00161	0.00135	0.00962	0.01281	0.00003	0.00040	—	0.00040	0.00036	—	0.00036	—	2.74315	2.74315	0.00011	0.00002	—	2.75257
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.4. Offsite - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09071	0.08256	0.06687	0.80628	0.00000	0.00000	0.19059	0.19059	0.00000	0.04467	0.04467	—	171.749	171.749	0.00551	0.00815	0.01590	174.332

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00089	0.00081	0.00058	0.00818	0.00000	0.00000	0.00183	0.00183	0.00000	0.00043	0.00043	—	1.73168	1.73168	0.00004	0.00007	0.00259	1.75750
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00016	0.00015	0.00011	0.00149	0.00000	0.00000	0.00033	0.00033	0.00000	0.00008	0.00008	—	0.28670	0.28670	0.00001	0.00001	0.00043	0.29097
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
User Defined Industrial	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	10.6166	10.6166	0.00038	0.00048	0.03342	10.8020
Total	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	10.6166	10.6166	0.00038	0.00048	0.03342	10.8020
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	9.78171	9.78171	0.00042	0.00051	0.00087	9.94644
Total	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	9.78171	9.78171	0.00042	0.00051	0.00087	9.94644
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	—	1.18182	1.18182	0.00005	0.00006	0.00171	1.20223
Total	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	—	1.18182	1.18182	0.00005	0.00006	0.00171	1.20223

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
User Defined Industrial	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	10.6166	10.6166	0.00038	0.00048	0.03342	10.8020
Total	0.00542	0.00503	0.00483	0.04398	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	10.6166	10.6166	0.00038	0.00048	0.03342	10.8020
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	9.78171	9.78171	0.00042	0.00051	0.00087	9.94644
Total	0.00496	0.00455	0.00553	0.03686	0.00010	0.00008	0.00927	0.00935	0.00008	0.00236	0.00244	—	9.78171	9.78171	0.00042	0.00051	0.00087	9.94644
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	—	1.18182	1.18182	0.00005	0.00006	0.00171	1.20223
Total	0.00065	0.00060	0.00068	0.00487	0.00001	0.00001	0.00119	0.00120	0.00001	0.00030	0.00031	—	1.18182	1.18182	0.00005	0.00006	0.00171	1.20223

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Landscape Equipment	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Total	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00000	0.00000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.56414	0.56414	0.00009	0.00001	—	0.56972
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.56414	0.56414	0.00009	0.00001	—	0.56972

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	3.40742	3.40742	0.00055	0.00007	—	3.44112
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.56414	0.56414	0.00009	0.00001	—	0.56972
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.56414	0.56414	0.00009	0.00001	—	0.56972

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	5/1/2027	5/8/2027	5.00000	5.00000	—
Site Preparation	Site Preparation	5/12/2027	6/12/2027	5.00000	23.0000	—
Grading	Grading	6/15/2027	12/14/2027	5.00000	131.000	—
Building Construction	Building Construction	12/21/2027	10/1/2028	5.00000	204.000	—
Pole Installation	Building Construction	12/21/2027	1/5/2028	5.00000	12.0000	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	367.000	0.40000
Demolition	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Demolition	Concrete/Industrial Saws	Diesel	Average	1.000000	8.00000	33.0000	0.73000
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/ Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Building Construction	Tractors/Loaders/ Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000
Building Construction	Other Construction Equipment	Diesel	Average	1.000000	8.00000	74.0000	2.00000
Pole Installation	Excavators	Diesel	Average	1.000000	7.00000	367.000	0.29000
Pole Installation	Off-Highway Trucks	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Pole Installation	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Pole Installation	Bore/Drill Rigs	Diesel	Average	1.000000	8.00000	46.0000	0.45000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	367.000	0.40000
Demolition	Excavators	Diesel	Average	3.00000	8.00000	36.0000	0.38000
Demolition	Concrete/Industrial Saws	Diesel	Average	1.000000	8.00000	33.0000	0.73000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/ Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Building Construction	Tractors/Loaders/ Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000
Building Construction	Other Construction Equipment	Diesel	Average	1.000000	8.00000	74.0000	2.00000
Pole Installation	Excavators	Diesel	Average	1.000000	7.00000	367.000	0.29000
Pole Installation	Off-Highway Trucks	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Pole Installation	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Pole Installation	Bore/Drill Rigs	Diesel	Average	1.000000	8.00000	46.0000	0.45000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	15.0000	10.7900	LDA,LDT1,LDT2
Demolition	Vendor	—	7.17000	HHDT,MHDT
Demolition	Hauling	34.6000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	17.5000	10.7900	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.17000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	10.7900	LDA,LDT1,LDT2
Grading	Vendor	—	7.17000	HHDT,MHDT
Grading	Hauling	0.11450	135.000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	200.000	10.7900	LDA,LDT1,LDT2
Building Construction	Vendor	0.00000	7.17000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Pole Installation	Worker	25.0000	10.7900	LDA,LDT1,LDT2
Pole Installation	Vendor	0.00000	7.17000	HHDT,MHDT
Pole Installation	Hauling	0.00000	20.0000	HHDT
Pole Installation	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	15.0000	10.7900	LDA,LDT1,LDT2
Demolition	Vendor	—	7.17000	HHDT,MHDT
Demolition	Hauling	34.6000	20.0000	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	17.5000	10.7900	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.17000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	10.7900	LDA,LDT1,LDT2
Grading	Vendor	—	7.17000	HHDT,MHDT
Grading	Hauling	0.11450	135.000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	200.000	10.7900	LDA,LDT1,LDT2
Building Construction	Vendor	0.00000	7.17000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Pole Installation	Worker	25.0000	10.7900	LDA,LDT1,LDT2
Pole Installation	Vendor	0.00000	7.17000	HHDT,MHDT
Pole Installation	Hauling	0.00000	20.0000	HHDT
Pole Installation	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00000	0.00000	0.00000	15,000.0	0.00000
Site Preparation	0.00000	0.00000	34.5000	0.00000	0.00000
Grading	0.00000	120.000	393.000	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	203.983	0.03300	0.00400
2028	0.00000	203.983	0.03300	0.00400

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
User Defined Industrial	1.23000	0.00000	0.00000	320.679	13.0030	0.00000	0.00000	3,390.06

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
User Defined Industrial	1.23000	0.00000	0.00000	320.679	13.0030	0.00000	0.00000	3,390.06

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0.00000	0.00000	0.00000	0.00000	0.00000

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
User Defined Industrial	0.00000	203.983	0.0330	0.0040	0.00000

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
User Defined Industrial	0.00000	203.983	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
User Defined Industrial	0.00000	8,146,286

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
User Defined Industrial	0.00000	8,146,286

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
User Defined Industrial	0.00000	0.00000

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
User Defined Industrial	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	23.2700	annual days of extreme heat
Extreme Precipitation	0.85000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	21.0400	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—

Indicator	Result for Project Census Tract
AQ-Ozone	62.7629
AQ-PM	43.6217
AQ-DPM	13.0429
Drinking Water	98.3265
Lead Risk Housing	52.9679
Pesticides	87.9655
Toxic Releases	14.6787
Traffic	19.0625
Effect Indicators	—
CleanUp Sites	88.5032
Groundwater	92.1302
Haz Waste Facilities/Generators	94.2555
Impaired Water Bodies	100.0000
Solid Waste	96.6323
Sensitive Population	—
Asthma	38.6839
Cardio-vascular	53.7139
Low Birth Weights	27.9189
Socioeconomic Factor Indicators	—
Education	83.8016
Housing	12.3447

Indicator	Result for Project Census Tract
Linguistic	57.7615
Poverty	65.0754
Unemployment	83.2249

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	26.10034646
Employed	7.686385218
Median HI	23.99589375
Education	—
Bachelor's or higher	25.84370589
High school enrollment	11.18952906
Preschool enrollment	44.32182728
Transportation	—
Auto Access	83.51084306
Active commuting	40.60053895
Social	—
2-parent households	38.16245348
Voting	45.98999102

Indicator	Result for Project Census Tract
Neighborhood	—
Alcohol availability	81.80418324
Park access	10.09880662
Retail density	1.257538817
Supermarket access	11.84396253
Tree canopy	72.5907866
Housing	—
Homeownership	45.09174901
Housing habitability	58.89901193
Low-inc homeowner severe housing cost burden	60.91364045
Low-inc renter severe housing cost burden	53.57372001
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	28.16630309
Arthritis	0.0
Asthma ER Admissions	53.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0

Indicator	Result for Project Census Tract
Diagnosed Diabetes	0.0
Life Expectancy at Birth	20.2
Cognitively Disabled	33.5
Physically Disabled	78.7
Heart Attack ER Admissions	33.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	41.4
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.1
SLR Inundation Area	0.0
Children	35.2
Elderly	70.0
English Speaking	15.8

Indicator	Result for Project Census Tract
Foreign-born	55.0
Outdoor Workers	4.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.7
Traffic Density	15.9
Traffic Access	0.0
Other Indices	—
Hardship	77.3
Other Decision Support	—
2016 Voting	64.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	76.0000
Healthy Places Index Score for Project Location (b)	21.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Update the lot acreage to reflect the size of the project
Construction: Construction Phases	No paving or architectural coatings are proposed. A construction phase for the relocation and installation of poles has been added.
Construction: Off-Road Equipment	Other construction equipment was added for the proposed Pile Driver usage. Construction equipment has been updated for the pole relocation and installation phase.
Construction: Trips and VMT	The number of trips per day was updated to reflect the number of individuals onsite during construction. Construction would require an average of approximately 5-25 workers per day, with up to approximately 100 workers on-site during peak construction activities (200 one/way trips per day). The project includes approximately 220,000 cubic yards of grading, with approximately 219,880 cubic yards to be balanced onsite and 120 cubic yards to be exported. The CalEEMod assumes 16 cubic yards of hauling per truck trip. Because approximately 120 cubic yards of soils will be exported to Kettleman Hills Facility, which is 135 miles away from the project site, and the grading period is 131 days, it would take 0.05725 truck trips per day to haul 120 cubic yards of soil 135 miles. The remaining 219,880 cubic yards of graded material will be recontoured on-site.

Screen	Justification
Operations: Vehicle Data	4 employees x 10 days x 4 times a year x 2 one-way trips/day = 320 trips/year. 320 trips per year / 260 weekdays per year =1.23 weekday trips.
Operations: Architectural Coatings	No architectural coating proposed
Operations: Water and Waste Water	Outdoor Water Use has been updated to reflect 25 acre feet of water/year (8,146,286 gal/year) for panel washing. In addition, the site is utilizing wells on-site, so Supply and Distribute have been removed to exclude the offsite energy associated with water conveyance/distribution.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	0.00000	738.620
Landscape Area	sq. ft	—	200,000

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	5/25/2030	5/8/2027
Demolition	Demolition	Work Days per Phase	800.000	5.00000
Site Preparation	Site Preparation	Start Date	5/26/2030	5/12/2027
Site Preparation	Site Preparation	End Date	3/28/2032	6/12/2027
Site Preparation	Site Preparation	Work Days per Phase	480.000	23.0000
Grading	Grading	Start Date	3/29/2032	6/15/2027

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Grading	Grading	End Date	12/29/2036	12/14/2027
Grading	Grading	Work Days per Phase	1,240.00	131.000
Building Construction	Building Construction	Start Date	12/30/2036	12/21/2027
Building Construction	Building Construction	End Date	7/11/2084	10/1/2028
Building Construction	Building Construction	Work Days per Phase	12,400.0	204.000

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Grading	Hauling	Miles per Trip	20.0000	135.000
Building Construction	Worker	One-Way Trips per Day	0.00000	200.000
Pole Installation	Worker	One-Way Trips per Day	0.00000	25.0000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
User Defined Industrial	Weekday Trip Rate	size/day	0.00000	1.23000

8.5.2. Area Sources

8.5.2.3. Architectural Coatings

Model Parameter	Units	Default Value	New Value
Residential Interior VOC	g/L	50.0000	0.00000
Non-Residential Interior VOC	g/L	50.0000	0.00000
Residential Exterior VOC	g/L	50.0000	0.00000
Non-Residential Exterior VOC	g/L	50.0000	0.00000
VOC for Parking Paint	g/L	100.0000	0.00000
Parking Area	sq ft	—	0.00000

8.5.4. Water and Waste Water

Land Use	Model Parameter	Units	Default Value	New Value
User Defined Industrial	Outdoor Water	gal/year	2,762,281	8,146,286
User Defined Industrial	Electricity Intensity Factor to Supply	kWh/Mgal	826.574	0.00000
User Defined Industrial	Electricity Intensity Factor to Distribute	kWh/Mgal	165.695	0.00000

Appendix B – Generator Calculation Emissions

Calculation of Criteria Pollutants

AE= EF x bhp v t

Where,

AE - Annual Emissions
EF – Emission Factor
T – Total annual number of hours of operation (hour per year)
bhp – Unit Break Horse Power (bhp)

Convert kW to hp:
300 kW x 1.341 = 403.3 hp
Convert kW to hp:
50 kW x 1.341 = 67.05 hp

No_X:

300kW Generator:

AE= EF x bhp v t
=0.40 x 403.3 x 50
= 8,066 g/year = 8.07 kg/year = 0.008896 ton/year

CO:

50kW Generator:

AE= EF x bhp v t
= 5 x 67.05 x 50
= 16,762.5 g/year = 16.76 kg/year = 0.01847 ton/year

300kW Generator:

AE= EF x bhp v t
=3.5 x 403.3 x 50
= 70,577.5 g/year = 70.58 kg/year = 0.077801 ton/year

PM:

50kW Generator:

AE= EF x bhp v t
=0.03 x 67.05 x 50
= 100.58 g/year = .10058 kg/year = 0.00011 ton/year

300kW Generator:

AE= EF x bhp v t
=0.02 x 403.3 x 50
= 403.3 g/year = .4033 kg/year = 0.00044 ton/year

Calculation of Greenhouse Gas

Emissions = Fuel x EF1

Where,

Emissions - Mass of CO2 emitted

Fuel – Annual mass or volume of fuel combusted

EF1 - CO2 emission factor per mass or volume unit

CO_2 Emissions from 50kW Generator:

Calculate Annual Fuel

Fuel Consumption Rate × Operating Hours = Annual Fuel
4.3 gal/hour[1] × 50 hour/year = 215 gal/year

Calculate CO_2 Emissions

Emissions = Fuel x EF1
CO_2 = 215 gal/year × 10.21 kg CO_2/gal[2]
= 2,192.15 kg CO_2/year
= 2.19 MT CO_2/year)

CO_2 Emissions from 250 - 300kW Generator:

Calculate Annual Fuel

Annual Fuel = Fuel Consumption Rate × Operating Hours
450 gal/year = 9 gal/hour[3] × 50 hour/year

Calculating CO_2 Emissions

Emissions = Fuel x EF1
CO_2 = 450 gal/year × 10.21 kg CO_2/gal
= 4,594.5 kg CO_2/year
= 4.59 MT CO_2/year

1 - For purposes of estimating GHG emissions, a conservative /high-end diesel fuel consumption rate of 4.3 gallons per hour at 100 percent load was assumed based on manufacturer specifications for a comparable 50-kW standby diesel generator
2 - Emission Factor for Distillate Fuel Oil No.2 is 10.21 kg/CO_2/gal, as shown below in the Direct Emissions from Stationary Combustion Sources Figure
3 - For purposes of estimating GHG emissions, a conservative /high-end diesel fuel consumption rate of 9 gallons per hour at 100 percent load was assumed based on manufacturer specifications for a comparable 250-300-kW standby diesel generator

Direct Emissions from Stationary Combustion Sources

Fuel	Heat Content (HHV)	Emission Factors		
Fossil Fuel-derived Fuels (Solid)	(mmBtu/ton)	(kg CO_2/ton)	(g CH_4/ton)	(g N_2O/ton)
Municipal Solid Waste	9.95	902	318	42
Petroleum Coke (Solid)	30.00	3,072	960	126
Plastics	38.00	2,850	1,216	160
Tires	28.00	2,407	896	118
Natural Gas	(mmBtu/scf)	(kg CO_2/scf)	(g CH_4/scf)	(g N_2O/scf)
Natural gas	0.001026	0.05444	0.00103	0.00010
Fossil Fuel-derived Fuels (gaseous)	(mmBtu/scf)	(kg CO_2/scf)	(g CH_4/scf)	(g N_2O/scf)
Blast Furnace Gas	0.000092	0.02524	0.000002	0.000009
Coke Oven Gas	0.000599	0.02806	0.000288	0.000060
Fuel Gas	0.001388	0.08189	0.004164	0.000833
Propane Gas	0.002516	0.15463	0. 007548	0.001510
Petroleum Products	(mmBtu/gal)	(kg CO_2/gal)	(g CH_4/gal)	(g N_2O/gal)
Asphalt and Road Oil	0.158	11.91	0.47	0.09
Aviation Gasoline	0.120	8.31	0.36	0.07
Butane	0.103	6.67	0.31	0.06
Butylene	0.105	7.22	0.32	0.06
Crude Oil	0.138	10.29	0.41	0.08
Distillate Fuel Oil No. 1	0.139	10.18	0.42	0.08
Distillate Fuel Oil No. 2	0.138	10.21	0.41	0.08
Distillate Fuel Oil No. 4	0.146	10.96	0.44	0.09

Source: Greenhouse Gas Inventory Guidance Direct Emissions from Stationary Combustion Sources
https://19january2021snapshot.epa.gov/sites/static/files/2020-12/documents/stationaryemissions.pdf