Attachment J

Hazardous Materials/Risk of Upset Reports

Phase I Environmental Assessment Report

Subject Property Located at
Solomon Hills
(Portions of Careaga and Newlove Leases)
APNs: 101-020-085, 101-020-086, 101-020-087
Santa Barbara County, CA 93455

August 15, 2025 **Project: 25-126**

Prepared for: Solstra Communities LLC
1555 Orcutt Hill Road
Orcutt, CA 93455

Prepared by:

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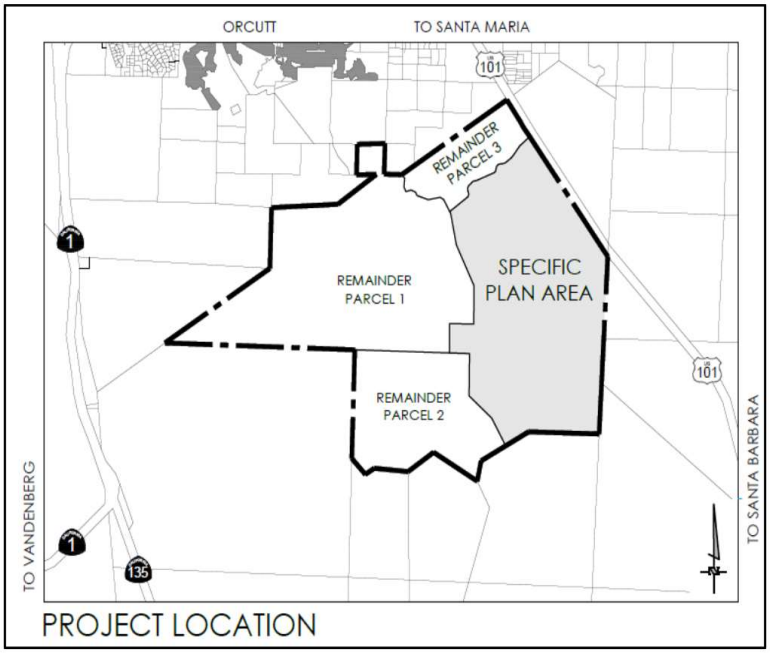
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Section 1.0
Introduction

1.1 Purpose

Waterstone Environmental, Inc. ("Waterstone") has been retained by Solstra Communities California, LLC ("Solstra") to prepare a Phase I Environmental Assessment ("Phase I EA") for the proposed Solomon Hills Specific Plan Area and additional offsite improvements related to roads, parks, and basins comprised of portions of the Careaga and Newlove oilfield leases and Bicknell Road, located in the Orcutt Oil Field in unincorporated Santa Barbara County, California ("Subject Property", see Figure 1). Waterstone has performed this Phase I EA at the request of Mr. Klaus Hasbo of Solstra who is considered the "User" of the report, as defined under ASTM Standard Practice E 1527-21. The Subject Property is an active oil and gas lease operated by Pacific Coast Energy Company, LP (PCEC) and is also used for cattle grazing.

Solstra owns the Specific Plan Area which is 1,616 acres in size and includes additional proposed offsite improvements related to roads, parks, and basins, and is part of the larger Solstra-owned Solomon Hills Property that is approximately 4,195 acres inclusive of APNs 101-020-041, -043, -085, -086 and -087 ("Solstra-owned Property"), shown outlined in bold black line on the figure below. The Subject Property for this study includes both the Specific Plan Area, shaded gray in the figure below and totaling 1,616 acres, as well as the area identified as "Remainder Parcel 3" and improvements related to roads, parks and basins.



The purpose of this environmental assessment is to identify Recognized Environmental Conditions ("RECs") for the Subject Property and to identify site features and areas of concern (AOCs) to be targeted for future site investigation. This assessment was conducted utilizing

generally accepted Phase I industry standards in accordance with the American Society of Testing and Materials ("ASTM") Standards E 1527-21 – Phase I Environmental Site Assessment Process and All Appropriate Inquiry ("AAI").

For the purpose of this report, and as defined by the ASTM, a REC is *"(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."*

An Historical Recognized Environmental Condition (HREC) is defined as *"a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical REC is not a REC."*

A Controlled Recognized Environmental Condition (CREC) is defined *as "a REC affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations)."*

To the extent that work performed as part of an ASTM and AAI compliant Phase I revealed conditions that may indicate an indoor air issue, Waterstone also evaluated the Subject Property for potential vapor encroachment issues. The ASTM E2600 Standard, while not required for a Phase I, provides a definition of a Vapor Encroachment Condition (VEC) which is "…*is the presence or likely presence of contaminant of concern vapors in the sub-surface of the target property (TP) caused by the release of vapors from contaminated soil or groundwater either on or near the TP."*

1.2 Scope of Work

The following scope of work was performed to accomplish the Phase I objectives:

- **Visual Inspection** - A visual evaluation of the Subject Property was conducted in readily accessible areas to identify RECs. Additionally, visual observations of adjoining properties were made from the vantage point of the Subject Property as well as from public rights-of-way to determine the potential impact of these sites on the Subject Property.
- **Subject Property Interview** - Interviews were requested of individuals knowledgeable and familiar with the Subject Property.

- **Records Review** - Available environmental reports, agency records, building department permits, Sanborn Maps and historical aerial photographs of the Subject Property and surrounding areas were reviewed.
- **Agency Document Review** - Appropriate regulatory agencies were contacted for information regarding hazardous materials use, storage, and/or releases at the Subject Property.
- **Published Database Review** - Published governmental agency databases were reviewed to identify properties within ASTM-specified radii of the Subject Property with a reported environmental concern or incident. Waterstone subcontracts the government agency database search to Environmental Data Resources, Inc. ("EDR").
- **Additional Regulatory Review -** Appropriate regulatory agencies were contacted and available records for properties that may negatively impact the Subject Property were reviewed.
- **Report Preparation** - A summary report was prepared of the environmental assessment findings and conclusions.
- **Environmental Professional** – All Subject Property inquiry was conducted by an environmental professional or under the supervision of an environmental professional.
- **Required Purchaser Activities** – It is the responsibility of the purchaser to assess the purchase price compared to fair market value, conduct a search for environmental cleanup liens, inquire about commonly known or ascertainable information that may affect the environmental conditions of the Subject Property, and provide any specialized knowledge or experience as the landowner or grantee.

1.3 Limitations and Exceptions

If topics are not explicitly discussed within this document, the reader should not assume those topics have been investigated. For example, physical testing was not performed, unless specifically detailed in this document. The work performed in conjunction with this study and data developed are intended as a description of available information on the dates and at the locations described. This report does not warrant against future operations or conditions, nor does it warrant against:

- Operations which are not in evidence from visual observations or search of published agency records, or facts that were concealed, withheld, or not fully disclosed at the time the inspection was conducted.
- Conditions that could only be determined by physical sampling or intrusive testing.
- Conditions on locations other than the User-provided Subject Property address and/or legal parcel description.

This Phase I EA report is not intended to address, assess, or otherwise determine whether soil or groundwater contamination, waste emplacement, existing or threatened mold/fungus growth, asbestos-containing building materials, and/or lead-based paint actually exists at the Subject Property. Such determination would require comprehensive subsurface exploration and/or other

sampling activities, which were beyond the scope of service for this assessment. Additionally, this report does not serve as a comprehensive wetlands, mining, oil, pipeline, and/or gas well survey.

This report summarizes a Phase I environmental investigation conducted for the Subject Property. Although conditions at neighboring properties may impact the Subject Property and, to the extent they were identified, were included in the Subject Property evaluation, this report does not serve as an assessment of sites other than the Subject Property.

1.4 Reliance

This Phase I EA was performed in accordance with the terms and conditions of the existing contract for the environmental evaluation of the Subject Property for the exclusive use of Solstra. No other party may rely on the report without the express written consent of the User. If such consent is given, an authorized party (or parties) may use and rely on this report provided that the party agrees to be bound by the same contractual terms and conditions imposed by the aforementioned contract of engagement.

Waterstone's professional services were performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable due-diligence professionals practicing in the Phase I EA due-diligence consulting field in this or similar localities at this time. No other warranty, expressed or implied, is made as to the professional opinions described in this report. Waterstone is not responsible or liable for any claims that are associated with the interpretation of the available information. Additionally, Waterstone is not responsible for any claims from third parties not associated with the User, unless this report is assigned in its entirety to a party acceptable to Waterstone.

Note: Waterstone exercised the usual and customary professional care in its efforts to assess property environmental law/code/regulation compliance. However, it is beyond the scope of a Phase I EA to provide definitive and thorough opinions regarding environmental compliance. Due to the existence of literally thousands of laws, codes, and regulations pertaining to the environment, Waterstone does not represent that any observations in this Phase I EA are a complete and definitive opinion regarding regulatory compliance.

Waterstone has based its assessment on prior Subject Property histories, interviews, a review of available records, observations of activities during a current physical site inspection, and historical site inspections over the last 18 years. Some or all of this information has been reported to Waterstone from several sources. Waterstone has relied on this reported information and data without further verification or validation of its accuracy.

1.5 Environmental Professional Statement

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Subject Property. We have developed and performed all appropriate inquiries in

conformance with the standards and practices set forth in 40 CFR Part 312. (See Appendix A for Environmental Professional Resumes.)

1.6 Proprietary Notice

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Section 2.0
User Provided Information

Waterstone has performed this Phase I EA at the request of Mr. Klaus Hasbo of Solstra, who is considered the "User" of the report, as defined under ASTM Standard Practice E 1527-21. In order to satisfy the requirements of AAI and 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 provide certain information regarding the history of the property, its use, and its fair market value.

As part of this Phase I ESA, Waterstone requested certain information from the User (see Appendix B - User Questionnaire). The information requested and associated responses are outlined in the remainder of this section of the report.

2.1 Reason for Performing the Phase I ESA

Waterstone understands that this assessment was performed for the User in order fulfill requirements of Santa Barbara County prior to development of the Solomon Hills Specific Plan Area and proposed additional offsite improvements related to roads, parks, and basins. This Phase I EA was conducted in accordance with both AAI and ASTM Standard E 1527-21 as an appropriate risk management and due diligence standard prior to potential development of the Subject Property.

2.2 Title Records, Liens, and Property Use Limitations

An environmental lien search was completed (See Appendix C) for the Subject Property. Based on the information in Appendix C, Waterstone learned of no property use limitations.

With reference to Activity Use Limitations (AUL) that are in place on the Subject Property or that have been filed or recorded in a registry (40 CFR 312.26), the User has no knowledge of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Subject Property and/or have been filed or recorded in a registry under federal, tribal, state or local law. The Environmental Lien and AUL Report in Appendix C identified one AUL notice; however, it was determined that the AUL was related to the recent lot line adjustment for the Subject Property and not related to any environmental property use limitations.

2.3 Specialized Knowledge, Commonly Known & Degree of Obviousness

With reference to specialized knowledge or experience of the person seeking to qualify for LLPs (40 CFR 312.28), Waterstone interviewed the User who stated they had no specialized knowledge or experience related to the Subject Property or nearby properties other than the information Waterstone has provided in this Phase I EA report, which Waterstone previously discussed with the User. The User indicated that their understanding of the Subject Property is that it has been used primarily for oil and gas operations and cattle grazing.

With reference to commonly known or reasonably ascertainable information about the Subject Property (40 CFR 312.30), the User was not aware of (other than the information Waterstone has provided in this Phase I EA report, which Waterstone previously discussed with the User) commonly known or reasonably ascertainable information about the Subject Property that would help the environmental professional to identify conditions indicative of releases or threatened releases, such as the historical past uses of the Subject Property, including:

1. Specific chemicals that are present or once were present at the Subject Property;
2. Spills or other chemical releases that have taken place at the Subject Property; and
3. Environmental cleanups that have taken place at the Subject Property.

With reference to the degree of obviousness of the presence or likely presence of contamination at the Subject Property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31), the User, based on knowledge and experience related to the Subject Property, was not aware of any obvious indicators that point to the presence or likely presence of contamination at the Subject Property.

Waterstone requested from the User any other specialized knowledge regarding the environmental conditions associated with the Subject Property. The User did not have any specialized knowledge of RECs or other conditions of environmental concern at the Subject Property other than the information in public records which Waterstone has provided in this Phase I report which Waterstone previously discussed with the User.

2.4 Value Reduction for Environmental Issues

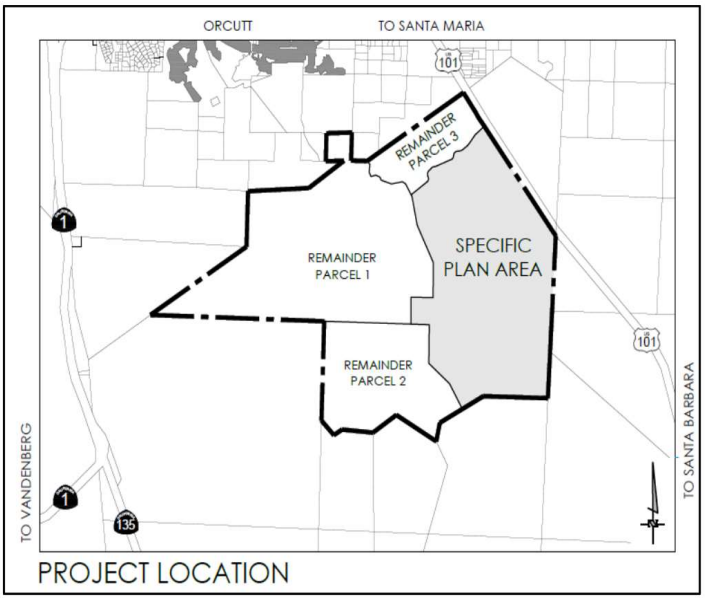
Waterstone interviewed the User regarding the relationship of the prospective purchase price to the fair market value of the Subject Property if it were not contaminated (40 CFR 312.29). The User indicated that, to his knowledge, a prospective purchase price for the Subject Property reasonably reflects its fair market value.

Section 3.0
General Subject Property Characteristics

3.1 Subject Property General Description

The Subject Property is comprised of 1,616 acres and includes additional offsite improvements related to roads, parks, and basins, and is part of the larger Solstra-owned Solomon Hills Property that is approximately 4,195 acres inclusive of APNs 101-020-041, -043, -085, -086 and -087 ("Solstra-owned Property"). Parcels include portions of Assessor's Parcel No. (APN) 101-020-085 and APN 101-020-086 and all of APN 101-020-087. Additionally, the Subject Property includes the approximate 3.5-mile length of Bicknell Road from the western extent of the Specific Plan area to Graciosa Road. The boundaries of the Subject Property are shown on Figures 1 and 2. Figure 3 provides details of features on the Newlove lease portion of the Subject Property, Figure 4 the Careaga lease portion, and Figures 5A and 5B the Bicknell Road portion.

The Subject Property includes both the Specific Plan Area, shaded gray in the figure below and totaling 1,616 acres, as well as offsite improvements related to roads, parks and basins.



The proposed Solomon Hills development will include up to 4,000 residential units, schools, retail space and offices, a village center, and between 1,000 and 1,200 acres of open space and parks. Portions will also serve as habitat for protected wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park. Development is proposed to be conducted in four phases extending over 14 years.

The proposed development project consists of the 1,616 acre Specific Plan area and roads, parks, and basins. Roads, parks, and basins include the remainder lot areas and proposed future easements for access and utility improvements along Highway 101 on the east and extending to Graciosa Road to the west.

The Subject Property is located within the southern and western slopes of the Solomon Hills, due south of the town of Orcutt. Addresses identified in records associated with the Subject Property include 1555 Orcutt Hill Road, Santa Maria, California, which is the office for the Orcutt Oilfield, but is not located within the bounds of the Subject Property.

A complex of existing dirt roads, oil wells, pipelines, associated machinery and oil production gathering, storage, and treatment facilities associated with oil and gas production are found throughout the Soltra-owned Property.

The industrial operations on the Subject Property include 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are located on Bicknell Road or Newlove Park area and considered to be part of access, basin or park improvements. A well status summary table is included in Appendix D. Additional oilfield related features on the Subject Property include historical sumps, historical aboveground storage tanks/tank batteries, oilfield piping and test headers, separators, chemical use and equipment storage areas, jack line, historical dump sites, and oiled roadways/berms. Oilfield features of potential environmental concern are summarized in Table 1.

The Subject Property includes rural land that has been used for grazing cattle and occasional farming activities since before the turn of the last century.

Major Subject Property characteristics are summarized as follows:

Subject Property Characteristics Summary Table

Property Characteristics	Observations
Total Subject Property Lot Size	Approximately 1,616 acres plus roads parks, and basins
Total Number of Buildings	No permanent structures present in use.
Street Address(es)	7980 East San Antonio Road, Santa Maria 1555 Orcutt Hill Road, Santa Maria
County	Santa Barbara County
Assessor's Parcel Number (APN)	101-020-087 and portions of 101-020-085 and 101-020-086
Distance to Major Landmark	The Subject Property is located immediately southwest of the 101 Freeway.
Current Use	Oil and Gas Exploration, Cattle Ranching, Telecommunications
Current Owner	Solstra Communities California, LLC

The Subject Property history and inspection observations are further discussed in Sections 5.0 and 6.0, respectively.

3.2 Adjacent Properties

The Subject Property is located in the Orcutt Hill area of Santa Barbara County which is primarily used for oil production, cattle grazing, vineyards and ranch-style residences (See Figures 1 and 2). At the time of the Subject Property inspection, the properties adjacent to the Subject Property were observed as follows (see Figure 2 and 5A):

North: Undeveloped, oilfield operations associated with the Dome Lease, and agricultural land are north of the Subject Property and is developed similarly to the Subject Property. Farther north is the City of Orcutt.

East: The 101 Highway and undeveloped land are immediately east of the Subject Property. Undeveloped, oilfield, and agricultural land are farther east of the Subject Property.

South: Oilfield operations associated with the Careaga Mineral Fee is south of the Subject Property. Undeveloped and agricultural land continues south of the Subject Property.

West: Oilfield operations associated with the western portion of the Careaga Lease and the Harris (Graciosa) Lease are west of the Subject Property and are developed similarly to the Subject Property. Undeveloped and agricultural land continues west of the Subject Property.

Section 4.0
Environmental Setting

The following summarizes the general environmental setting of the Subject Property.

4.1 Regional Setting

The Subject Property is situated near latitude 34.82 (north) and longitude -120.37 (west) within the Solomon Hills, which generally trend northwest-southeast. The Subject Property is relatively hilly and elevations vary from approximately 800 to 1,200 feet above mean sea level (amsl) as shown in the Orcutt, California USGS Topographic Map. Bicknell Road extends from approximately 400 to 800 feet amsl. The Subject Property is not located within a 100 or 500-year flood zone.

4.2 General Geologic Conditions

The Subject Property is located in Santa Barbara County, within the southern portion of the Coast Ranges geomorphic physiographic province of California between the Santa Maria Valley and the San Antonio Valley. The California Department of Conservation describes the geomorphic provinces as follows:

> The Coast Ranges are northwest-trending mountain ranges (2,000 to 4,000, occasionally 6,000 feet elevation above sea level), and valleys. The ranges and valleys trend northwest, sub-parallel to the San Andreas Fault. Strata dip beneath alluvium of the Great Valley. To the west is the Pacific Ocean. The coastline is uplifted, terraced and wave-cut. The Coast Ranges are composed of thick Mesozoic and Cenozoic sedimentary strata. The northern and southern ranges are separated by a depression containing the San Francisco Bay. The northern Coast Ranges are dominated by irregular, knobby, landslide-topography of the Franciscan Complex. The eastern border is characterized by strike-ridges and valleys in Upper Mesozoic strata. In several areas, Franciscan rocks are overlain by volcanic cones and flows of the Quien Sabe, Sonoma, and clear Lake volcanic fields. The Coast Ranges are sub-parallel to the San Andreas Fault. The San Andreas is more than 600 miles long, extending from Pt. Arena to the Gulf of California. West of the San Andreas is the Salinian Block, a granitic core extending from the southern extremity of the Coast Ranges to the north of the Farallon Islands.

Several faults that are part of the Casmalia fault zone are located in the immediate vicinity of the Subject Property, including to the north, east, and west, as shown in the Santa Barbara County Geologic Maps from the USGS.

4.3 Groundwater Conditions

The Subject Property is located in Santa Barbara County, within both the Santa Maria River Valley and the San Antonio Creek Valley Groundwater Basin (3-012.01 and 3-014). According to the California Department of Water Resources, these areas are described as follows:

> The Santa Maria River Valley groundwater basin underlies the Santa Maria Valley in the coastal portion of northern Santa Barbara and southern San Luis Obispo Counties. The basin is bounded on the north by the San Luis and Santa Lucia Ranges, on the east by the San Rafael Mountains, on the south by the Solomon Hills and the San Antonio Creek Valley Groundwater Basin, on the southwest by the Casmalia Hills, and on the west by the Pacific Ocean. Groundwater is found in alluvium, dune sands, and the Orcutt, Paso Robles, Pismo, and Careaga Formations. Groundwater is unconfined throughout most of the basin except in the coastal portion where it is confined.
>
> The San Antonio Creek Valley Groundwater Basin is bounded on the north by the Casmalia Hills and the Solomon Hills, on the south by the Purisima Hills and Burton Mesa, and on the west by the Pacific Ocean. The valley is drained by San Antonio Creek. Groundwater is found in alluvium, dune sand, terrace deposits, and the Orcutt, Paso Robles, and Careaga Formations. The alluvium, Paso Robles Formation, and Careaga Formation yield significant amounts of groundwater. Dune sand, terrace deposits, and Orcutt Formation, which are generally unsaturated and locally perched, are potential sources of groundwater. Groundwater is unconfined.

The overall direction of groundwater flow in the Santa Maria Groundwater basin is to the northwest, although groundwater pumping results in locally anomalous flow directions. In the San Antonio Groundwater Basin, the predominant direction of groundwater flow under historical and present-day conditions was from the eastern uplands in the Solomon Hills to the west along San Antonio Creek to the discharge area in Barka Slough, and from the northern uplands in the Casmalia Hills south to San Antonio Creek (USGS, 2022). In 1976, the inferred groundwater flow direction at the Subject Property was toward the north-northwest in the northern portion of the property and to the south-southwest in the southern portion. The depth to first groundwater for the property was not identified, but sparse data held at the Santa Barbara County Water Agency indicated that groundwater levels in this area vary from 317 to 475 feet below ground surface.

The onsite water-bearing formations do not have viable sources of potable water. Groundwater quality varies widely within the basins, with total dissolved solids (TDS) ranging from 500 to 3,000 milligrams per liter. Groundwater TDS and nitrogen concentrations generally increase toward the west and also with distance away from the Santa Maria River, which is the primary recharge area.

On the Careaga Lease, perched groundwater can be found in the sands and alluvium in the canyon bottoms during rainy years (Harding ESE, 2001). North of the Subject Property, there is a fault and groundwater is closer to the surface to the north.

Section 5.0
Government Database Review

5.1 Government Databases Searched

An investigation of the government environmental databases related to the Subject Property and the nearby area was conducted to identify potential RECs that may be recorded in government database systems or files. Properties that have or may have the potential for existing or future Subject Property contamination, environmental liabilities, or the potential for contamination migration to surrounding areas are listed in this report. The information pertaining to the sites on the regulatory databases was obtained from the *EDR Area/Corridor Report* (See Appendix E) provided by EDR. The databases searched are detailed in the EDR Area/Corridor Report. The results of the Subject Property and Surrounding Property listings are summarized in Sections 5.2 and 5.3, respectively.

5.2 Subject Property Summary

The Subject Property address was listed in the PFAS ECHO, CHMIRS, Formerly Used Defense Sites (FUDS), Underground Injection Wells (UIC), Facility Index System (FINDS), Emissions Inventory Data (EMI), and California Environmental Reporting System (CERS) databases in the EDR Report.

- **Pacific Coast Energy Company LP** is listed in the PFAS ECHO database as an oil and gas site with no additional details provided.
- There are multiple listings in the CHMIRS database for various names including 1555 Orcutt Road, 1555 Orchid Hill Road, and 1555 Orchard Hill Road; all of which are presumably meant to be for 1555 Orcutt Hill Road, which is the office headquarters for PCEC. A review of the listings found that several were offsite and not located on the Subject Property, and these are not summarized herein. Other listings had no information to identify their location, and those are included.

  Many of these listings do not provide location details, well numbers, or other identifying information that would allow its location to be determined. Those listings may or may not be on the Subject Property. Other listings do provide location information and could be segregated as being on or off the Subject Property, and are categorized as such below.

  Noted incidents include the following:

  - <u>Onsite (or immediately adjacent)</u>
    - Careaga well #37 - Report of stuffing box failure on well head caused spill of 20 barrels of crude oil on 8/3/2007.
  - <u>Location Unknown – No location details reported</u>
    - Report of vent line for meter plugged causing valve to vent on a test valve involving produced water on 11/29/1997.
    - Report of hole developed in a 4” pipeline and crude oil spilled to ground

on 4/19/2000, contained on facility in containment basin.

- Report of release of 4 barrels of produced water which occurred due to a backhoe accidentally rupturing a 10 foot section of pipe on 7/20/2001.
- Report of release of 1.3 barrels of produced water occurred due to corrosion of pipeline on 1/17/2002.
- Report of release of 138 barrels of produced water which occurred due to equipment malfunction on 6/28/2002. Water/oil flowed into dry creek bed, oil was recovered but the produced water sank into the dirt.
- Report of release of 43 barrels of produced water which occurred due to sling on the pumping unit caused uneven wear on the stuffing box seal, which spilled onto dirt at the location site on 4/14/2006 and was cleaned up.
- Report of a pump overfilled storage tank and spilled oil and water on 10/24/2006.
- Report of release of 80 barrels of produced water which occurred due to failure of an aluminum cam-lock fitting on a 500 barrel portable frac tank on 10/11/2007.
- Report of release of crude oil occurred due to malfunction of motor operated valve on a metering skid which resulted in release into secondary containment on 3/23/2008.
- Report of release of crude oil into containment caused by gasket failure on 5/5/2008 and was cleaned up.
- Report of crude oil exiting well cellar from unknown source with spill contained onsite on 8/3/2008.
- Report of oil seep reported from oil well site on 7/4/2011.
- Report of release of 77 barrels of produced water and 1 barrel of crude oil occurred due to malfunction of injector on 1/7/2015, with no waterways or drains impacted.
- Report of release of less than one barrel of oil and water occurred due to natural seepage on 3/16/2016.

- **Beacon Site #4 AAF** is listed in the following databases:
  - FUDS database as a Beacon site that is not on the NPL, and no additional details were provided. Envirostor database as an inactive military evaluation site that needs evaluation as of 2005. Further evaluation appears to indicate this listing may be related to the weather station present in the northwest portion of the Newlove lease.
- **Solomon Hills** is listed in the CERS database as a cleanup program site.
- **Newbridge Resources, LLC**, is listed in the UIC database for a waste disposal well (API

Number 0408320317 – Well C-#B-5. This well is currently idle).

- **Careaga Lease – Phoenix Energy** is listed in the FINDS, EMI, and CERS databases for Hazardous Air Pollutants and stationary air emissions permitted at the Careaga Lease. Annual emissions are reported from 2006 to 2008 and 2012.

Additional information regarding the Subject Property was requested from local agencies. The results of file reviews are summarized in Section 6.2 of this report.

5.3 Surrounding Properties Summary

Surrounding properties identified in the EDR Area/Corridor Report include the following:

- Newbridge Resources LLC – Careaga Lease at 7930 Graciosa Road is listed in the CERS TANKS database for aboveground petroleum storage (this may be associated with the Subject Property).
- PEI – Careaga Lease at 7980 Graciosa Road is listed in the AST and CUPA databases.

Due to inadequate address/locational information, nine (9) "orphan" sites were not mapped or detailed in the EDR Radius Map site listings. Based on the address information provided and additional information determined by on-line sources, all of the orphan sites are listed are CHMIRS database listings and are not located on the Subject Property.

Additional information procured for the Subject Property is discussed in Section 6 below.

Section 6.0
Historical Document Review

To determine whether RECs exist for the Subject Property based on historical activities and/or operations at the Subject Property and/or a neighboring property, Waterstone conducted a review of historical documents, available local agency or departmental records, and available previous investigation reports. The following sections summarize the findings of these document reviews.

6.1 Proprietary Document Review

Waterstone subcontracted the historical document search to EDR. The information searched and documents available are summarized as the following:

- A search of the EDR Historic Map Collection was conducted for the Subject Property. The EDR Historic Map Collection is the largest and most extensive private collection of prior-use maps in the United States, with coverage ranging from 1867 through 1994. No Sanborn Fire Insurance Maps were available for review. The Historical Maps Report is provided as Appendix F.
- Historical aerial photographs of the Subject Property and surrounding area were obtained from EDR. Photographs from 1938, 1943, 1954, 1960, 1967, 1978, 1981, 1994, 2005, 2009, 2012, 2016/2018, and 2020/2022 were provided to and reviewed by Waterstone (See Appendix G). A review of the aerial photographs is provided in the table below. Note that due to slight variations in the aerial photographs, the exact location of Bicknell Road on historic aerials relative to its current configuration is difficult to decipher.
- Historical Topographic Maps of the Subject Property and surrounding area were obtained from EDR. Maps from 1905, 1947, 1948, 1959, 1967, 1974, 1978, 2012, 2015, 2018, and 2021 were provided to and reviewed by Waterstone (See Appendix H). A review of the Topographic Maps is provided in the table below.
- City Directories have been published for many cities and towns across the United States since the 18th century. For each address within an area, City Directories list the name of each resident or, if a business operates from that address, the name and type of business. While the geographic coverage of City Directories is comprehensive for most major cities, many rural areas and small towns may not be included, and many towns and cities have discontinued the practice of issuing City Directories (See Appendix I). No City Directory listings were identified for Bicknell Rod or Orcutt Hill Road.

Historical Sources Summary Table

Date	Observations	Source
1905	**Subject Property:** Primarily undeveloped land with scattered oil and gas wells (Union Oil Wells) and rural roads are depicted at the Subject Property. Bicknell Road is present but appears to be slightly variable from the current configuration. **Surrounding Properties:** Surrounding properties appear to be primarily undeveloped. Rural roads are visible throughout the topographic map with oil wells concentrated to the of the Subject Property.	Topographic Map

Historical Sources Summary Table

Date	Observations	Source
1938	**Subject Property:** The Subject Property is largely undeveloped, but roads are visible throughout the site. Oil and gas wells are visible primarily in the southwest portion of the Subject Property on the Careaga Lease. The oil and gas production equipment is primarily visible in the western and central portions of the Subject Property. Small structures are visible near well C-#68 in the south-central portion of the Careaga Lease. Various drainage wash areas are also visible. The historic location of Bicknell Road appears to be slightly variable from the current configuration. The western portion of the road lies on the north side of a drainage wash and the eastern portion of the road goes through a canyon with oilfields where some current and historical oil-field related infrastructure in the western portion of the Careaga Lease is present immediately adjacent to the road. **Surrounding Properties:** Surrounding properties appear generally similar to the Subject Property, primarily undeveloped with oil and gas production equipment connected by rural roads. The area to the north of the Subject Property appears to have more dense development oilfield-related features and buildings.	Aerial Photograph
1943	**Subject Property:** The Subject Property appears generally similar to the previous aerial photograph. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph.	Aerial Photograph
1947/ 1948	**Subject Property:** The Subject Property appears generally similar to the previous topographic map. The northwest and southwest portions of the Subject Property are labeled as "Oil Fields" with additional oil wells identified. The Solomon Hills and Mt. Solomon are labeled in the northern portion of the Subject Property. **Surrounding Properties:** Surrounding properties appear generally similar to the previous topographic map, but the oil field has significantly expanded to the west of the Subject Property.	Topographic Map
1954	**Subject Property:** The Subject Property appears generally similar to the previous aerial photograph. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph.	Aerial Photograph
1959	**Subject Property:** The Subject Property appears generally similar to the previous topographic map. VABM Lookout is now noted on Mr. Solomon. **Surrounding Properties:** Surrounding properties appear similar to the previous topographic map, with Bicknell (which was a former company town) noted immediately west of the Subject Property along Bicknell Road.	Topographic Map
1960/ 1967	**Subject Property:** The Subject Property appears generally similar to the previous aerial photograph. The western portion of the current-day Bicknell Road appears to go through agricultural fields. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph.	Aerial Photograph
1967	**Subject Property:** The Subject Property appears similar to the previous topographic map. **Surrounding Properties:** The area surrounding the Subject Property is similar to the previous topographic map.	Topographic Map
1974/ 1978	**Subject Property:** The Subject Property appears similar to the previous topographic map. The eastern portion of the Subject Property is unmapped in the 1978 topographic map. **Surrounding Properties:** The area surrounding the Subject Property is similar to the previous topographic map.	Topographic Map
1977	*Due to poor reproduction quality, Subject Property features are difficult to discern.* **Subject Property:** The Subject Property appears generally similar to the previous aerial photograph. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph.	Aerial Photograph

Historical Sources Summary Table

Date	Observations	Source
1981	**Subject Property:** The Subject Property appears generally similar to the previous aerial photograph. By this year, the western portion of Bicknell Road appears to be reconfigured to its current layout, with agricultural fields present to the north and south. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph.	Aerial Photograph
1994	**Subject Property:** The Subject Property appears generally similar to the previous aerial photograph. A weather station and baseball field are now present in the northwestern portion of the Subject Property. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph, but the oilfield-related buildings and equipment north of the Subject Property appear to be no longer present.	Aerial Photograph
2005/ 2009	**Subject Property:** The Subject Property appears generally similar to the previous aerial photograph. By 2005, agricultural fields present north and south of the western portion of Bicknell Road have expanded eastward. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph.	Aerial Photograph
2012/ 2015/ 2018/ 2022	**Subject Property:** The Subject Property appears generally similar to the previous topographic map, but fewer details are available on topographic maps from this time. **Surrounding Properties:** Surrounding properties are depicted similarly to the previous topographic map.	Topographic Map
2012/ 2016/ 2020	**Subject Property:** The Subject Property appears generally similar to the previous aerial photograph and appears similar to its current configuration. **Surrounding Properties:** Surrounding properties appear generally similar to the previous aerial photograph.	Aerial Photograph

6.2 Local Agency Records Review

Based on the listings provided in the EDR report review of government databases, Waterstone submitted requests for file review at local agencies (See Appendix J). According to files made available at state and local agencies, available records used to prepare this Phase I EA are listed below:

6.2.1 California Department of Conservation Geologic Energy Management Division

Individual well construction records available on the California Department of Conservation Geologic Energy Management Division (CalGEM) well finder website for the active, idle, and abandoned oil wells present on the Subject Property were not reviewed as a part of the scope of this Phase I EA. Files reviewed during a visit to the CalGEM office in Orcutt included the following:

- Maps of the Orcutt Hill Fields and of the Careaga lease from 1929.
- Correspondence regarding the Gitte-Ten Tank Battery at Careaga, also known as Tank Battery 37A or Section 32 Tank Battery.

CalGEM responded to an agency request with a large number of spills and seep reports, which were largely located offsite of the Subject Property. The files identified which were related to the Subject Property include the following:

- Careaga well #45 – 5/29/1997 – valve stem packing failure resulting in release of 5-10 bbls of oil misted over a 100' by 150' area.
- Careaga well #4 – 5/31/1999 – leaky nipple on the test tank leaked approximately 0.5 bbls of oil over a 1' by 60' area down a paved lease road. Cleanup included a backhoe to dust the road and remove any oil not on the paved road.
- Careaga well #37 – 8/3/2007 – stuffing box failure resulting in release of 20 bbls of crude oil, impacts to soils and adjacent soils along downslope drainage/wash. Impacted soil was removed and disposed of offsite. This well is located offsite, but very close to the Subject Property southern boundary, and is proposed for abandonment (also discussed in files from the County of Santa Barbara).

Files previously received from CalGEM following a request for records regarding any existing NOVs or sampling/cleanup reports for the Subject Property include the following:

- Spill Reports from 1997 through 2011 were provided from when the site was being operated by Geo Petroleum, Phoenix Energy Inc., or Breitburn Energy Co. Documents indicate that these issues were repaired and cleaned up to the satisfaction of CalGEM and oil-contaminated soil was sampled prior to disposal or reuse, or were in the process of being cleaned up as of the date of the documents provided. Reports for incidents which occurred within the bounds of the Subject Property include:
    - A produced water spill from a suspected hole in tubing at well #B-5 on 9/23/2006, later reported to have been adequately cleaned up.
    - A stuffing box leak at well #37 (located immediately outside the southern boundary of the Subject Property) on 8/3/2007 which released approximately 20 barrels of oil into a dry wash drainage channel that feeds into a blue line stream.
- Lease inspection reports from 2014 through 2016 with violations noted fluid in various well cellars, improper signage, uncovered cellar, and failure to file a quarterly SB1281 water report. Most violations were noted as addressed before the end of the inspection or were to be addressed within one month.

6.2.2 Regional Water Quality Control Board – Central Coast Region

Records identified on the State Water Resources Control Board (SWRCB) GeoTracker website indicate that the Solomon Hills cleanup program site (T10000022945) is open for site assessment is present on the Subject Property as of January 8, 2025. Documents available for review include the following (which are included in Appendix K):

- October 22, 2001, Harding ESE, *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California* (5,460 acres in Orcutt Hill Oilfield – 1,616 acres in Specific Plan area).

  Harding ESE's ESA was performed across multiple oilfield properties in the Orcutt Hill area. The following areas of potential environmental concern which are located on the Subject Property were noted:

- Tank Battery 37A, located in the southern edge of the Careaga Lease. Features identified here include four tanks (wash tank, stock tank, two wastewater tanks), two separators, pumps, a test header and a compressor. Staining was observed around the western pump and earthen berms with asphaltic coating are present.
- Former Santa Fe Energy Tank Battery near well #68.
- Test header and small corroded AST observed near well #75, test header near well #6.
- Jack line observed between wells #6 and 11, where oil was observed at the base of the motor.
- Dumpsites noted in the west-central portion of the Newlove lease.
- General chemical and equipment storage and usage areas, soil adjacent to oil wells, sumps, pipelines, condensate traps, asbestos-containing materials, soils containing crude oil used for road/berm construction, leaks/spills/pits involving crude oil/produced water/drilling mud.

Other observations within the Subject Property bounds included aluminum water tanks adjacent to Careaga 146D; an old building observed southwest of Careaga 6; radio and telecommunication related equipment, including small fuel ASTs for power, on top of Mt. Solomon; and buildings and equipment associated with a U.S. Air Force weather station.

- September 6, 2004, Waterstone, *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California* (over 10,000 acres in Orcutt Oilfield including Careaga and Newlove Fees – 1,616 acres in Specific Plan area).

  Waterstone's 2004 Phase I was performed across multiple oilfield properties in the Orcutt Hill area, similar to Harding ESE's ESA. The report notes that development of the Orcutt Hill oilfield began in the early 1900s by small owner/operators and Union Oil Company (UOC). UOC ultimately took ownership of most of the properties and sold them in the mid-1900s. The report notes that spill reports were on file at the Santa Barbara County Petroleum and Fire Departments but did not specify where in the oilfield spills had occurred. Fines for spills had been levied against Nuevo Energy. RECs identified in the Phase I report were similar to those noted by Harding ESE above.

- October 5, 2007, Waterstone. *Summary of Site Characterization Activities for Breitburn Energy's Newlove and Careaga Leases at the Orcutt Oil Field, Orcutt, CA.*

  Waterstone performed a Phase II investigation at the Newlove and Careaga leases, including areas outside of the Subject Property totaling approximately 4,195 acres, to evaluate environmental conditions and determine whether remedial action would be required prior to a proposed development at the time of approximately 7,000 homes and two million square feet of commercial space. In 2007 and within the current Subject Property boundary, Waterstone collected soil samples at approximately 25 locations adjacent to oilfield features (oil wells, tank farms, sumps, etc.) during three mobilizations, seven days of field sampling, and performed laboratory analyses on over 70 soil samples to test for the presence of crude oil and other oil production-related

substances. . Selected samples were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range), volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and/or Title 22 metals by EPA Method 6000/7000 series.

Features sampled on the current Subject Property included thirteen (13) oil wells, former dump sites, and two (2) tank batteries. A threshold of 3,500 parts per million TPH was used as a concentration that might be considered elevated if a risk assessment were performed. Within the bounds of the Subject Property, concentrations over 3,500 ppm, or more current standards, were reported for:

- Three oil wells (Careaga #61, #63, and #78)
- One dump site (sample D-2).

VOCs and SVOCs were mostly not detected, but were detected in those locations noted above which had elevated TPH concentrations. Metal concentrations were not detected above background levels. Seven of the 70 samples (10%) analyzed contained TPH concentrations exceeding San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for residential land use (430 parts per million (ppm) gasoline range, 260 ppm diesel range, 12,000 ppm oil range).

- April 1, 2022, Waterstone, *Phase I Environmental Assessment Report, Careaga Lease, Santa Barbara County, California.*

  Waterstone's 2022 Phase I was prepared for the entire Careaga Lease of 1,145 acres, which included 452 acres of the southern part of the Subject Property where the main development will occur. RECs identified in the Phase I report which are located within the current Subject Property bounds included:

  - Existing and former facilities such as oil/gas/injection wells, tank batteries, chemical and equipment storage areas, condensate traps, sumps, pipelines, stained soil noted in and around various facilities/operational areas, dumpsites, transformer sites, oil seep/stained areas, oily soils used for road/berm construction, and leaks/spills/pits involving crude oil/produced water/drilling mud.
  - Past environmental investigations which reported elevated concentrations of petroleum hydrocarbons in and near the various site feature types listed above.
  - Though not identified as RECs, it was also noted that asbestos may be present in pipeline materials or pipeline wrap and lead-based paint may be present in painted surfaces such as aboveground tanks.

- June 27, 2024, Waterstone, *Phase II Investigation and Remedial Action Plan, Solomon Hills, Santa Barbara County, California* – 1,616 acres of Specific Plan Area.

  Waterstone's 2024 Phase II and Draft Remedial Action Plan (RAP) was prepared for an area encompassed by the current Subject Property bounds, excluding Bicknell Road. The Phase II study included sampling and analysis of soil and/or soil vapor at twenty-two (22) site features. Features sampled or re-sampled included fifteen (15) oil wells, a test header, a former dump site, a transformer site, an oil separator, and two (2) tank batteries. Soil

samples were analyzed for TPH, VOCs, SVOCs, metals, and/or polychlorinated biphenyls (PCBs). Soil vapor was also analyzed for VOCs at nine (9) locations. Results were compared against screening levels published in DTSC Hero Note 3 (May 2022), EPA Regional Screening Levels (RSLs, November 2023), and San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs, January 2019). On the Subject Property, of the 19 sample locations only three had elevated TPH and/or VOC concentrations reported:

- Two oil wells (Careaga #63 and #78)
- One test header on the Careaga lease (sample TH1).

Slightly elevated concentrations of metals were also detected at Careaga well #60 (arsenic at 13 mg/kg) and well #74 (cadmium at 56 mg/kg). Overall, elevated TPH was identified in two of the features sampled, elevated VOCs were identified in five of the features sampled, SVOCs were identified one of the features sampled, and no PCBs were detected.

Based on the findings of the 2007 and 2024 Phase IIs, a Draft RAP was prepared which outlined site remediation to be performed in conjunction with abandonment and removal of oilfield infrastructure, including wells, tanks, piping, equipment, and historical sumps/mud pits. Specific remediation areas and their expected cleanup depths identified in the RAP based on the prior sampling efforts include:

- Newlove Former Dump Area D-2 (25')
- Careaga Well #61 (7')
- Careaga Well #63 (22')
- Careaga Well #78 (22')
- Careaga Test Header TH1 (12').

Further, based on historical sampling results the Draft RAP estimates quantities for soil removal based on assumptions of likelihood for impacts to be found at certain features, including oil wells, sumps, tank batteries, asphalt roadways, piping corridors, and former dump areas.

- May 16, 2025, Comments from Santa Barbara County EHS/SMU on Waterstone's 2024 *Phase II Investigation and Remedial Action Plan* (see Appendix J). The County did not approve of the Draft RAP as proposed and provided multiple comments, including the directive to identify all pertinent environmental features, provide an updated Phase I, provide a sampling plan to be approved by EHS, and provide an updated corrective action plan after all features are sampled and impacts are delineated. EHS indicated that a separate closure report will be required for each feature identified which requires remediation, and that a Soil Management Plan will be required. It was also noted that burial of impacted soil on the Subject Property is no longer part of the redevelopment proposal.

  PCEC is the current operator of the oilfield and is responsible for restoring the site to its original condition upon the abandonment of oilfield features in accordance with the Santa Barbara County Petroleum Code (Section 25-31). This includes the abandonment of oil

wells and removal of infrastructure such as tanks and piping. PCEC will continue with active oilfield operations on the neighboring parcels to the west, where they operate a waste pile management facility for beneficial reuse of petroleum-impacted soils under General Waste Discharge Requirements Order No. R3-2020-0006.

Additional records identified on the SWRCB GeoTracker website indicate other files which are all located offsite of the Subject Property. These include:

- PCEC Water Disposal Project – Orcutt Oilfield Underground Injection Control (UIC) (T10000023261) – includes a 2025 request to dispose of Casmalia produced water at the Orcutt Oilfield, with no reviews started.
- PCEC Cyclic Steam – Orcutt – Sisquoc Diatomite UIC (T10000011075) – includes a proposal and permit application for injection operations offsite approximately 2,000 feet west of the Subject Property. The project review is noted complete as of December 21, 2017.
- SME Orcutt Field UIC (T10000008459) – includes a proposal and permit application for injection operations offsite approximately 3,000 feet west of the development area of the Subject Property, with some wells as close as 1,500 feet; however, the bulk of the pilot steam wells are located immediately adjacent to Bicknell Road in the vicinity of the Careaga gas plant. The project is noted as complete as of March 16, 2016. Additional documents previously received from the RWQCB include a Memorandum prepared by Environmental Forensics dated January 321, 2015 (revised May 7, 2015) and a letter prepared by URS dated August 7, 2015 *Re Response to DOGGR Regarding Water Wells on Careaga Lease* assert that the Sisquoc formation is not an Underground Source of Drinking Water (USDW) as defined under Federal regulations or Source of Drinking Water as defined under California regulations, and that the planned cyclic steam injection project will be conducted entirely within the non-USDW zone. A letter from the RWQCB (undated) provided approval of the project based on the findings of a water well survey which did not identify a current beneficial use for groundwater.
- Orcutt Hill Oilfield Waste Pile (WDR100027795) – no additional information provided except that it is active as of May 14, 2007.
- Careaga Lease Waste Pile Management Facility (WPMF) (T10000006350) – received closure on 12/10/2024. The WPMF was initially permitted in 2014 and historically hydrocarbon-impacted materials were brought to the facility for temporary storage prior to disposal. *The Closure Report* (August 2024) identifies the WPMF was located offsite approximately 2,500 feet west of the Subject Property, but the beneficial re-use areas included well pads located on the Subject Property in the western portion of the Careaga Lease.
- PCEC Orcutt WPMF and Beneficial Reuse (SL0608375179 and SL0608377564) – Facility operating as of 2009, located approximately 9,500 feet west of the Subject Property on the western portion of the Newlove Lease, but the beneficial re-use areas included well pads located on the Subject Property in the western portion of the Careaga Lease.

Documents available on the SMARTS website identified by the RWQCB as potentially associated with the Subject Property include two stormwater files for the Subject Property:

- One industrial permit for Orcutt Hill Facilities which has been active since 2015, with the most recent uploaded Stormwater Pollution Prevention Plans (SWPPP) from 2020. Potential stormwater pollutants listed for the facility include oil and grease, pH ,and total suspended solids (TSS), and potential pollutant sources identified include crude oil and natural gas production, seep cans, crude oil separation, storage and transfer to pipelines, natural gas treatment and reuse, produced water storage and injection, and maintenance activities. The inventory of materials onsite that could pollute storm water includes asphalt, crude oil, produced water, oil processing chemicals, water treatment chemicals, maintenance chemicals, antifreeze, pesticides, and fertilizer. An Orcutt Hill Facilities Spill History document was also available for download, but it was not apparent if any of the reported spills occurred on the Subject Property.
- One construction permit for Orcutt Hill Resource Enhancement Plan which was terminated in 2018. Maps available in the SWPPP indicate it was located offsite approximately 2,000 feet west of the Subject Property.
- Two industrial permits for Newlove Fee Field – one for Unocal which was terminated in 1994 and one for Nuevo Energy Co. which was terminated in 1996. No additional documents were available for review for either permit.

The availability of additional hard-copy documents identified by the RWQCB was delayed and these documents have not been reviewed as of the issuance date of this report. Based on the large number of documents for the Subject Property available on the SWRCB's GeoTracker website, historical environmental reports, and other sources, these documents are not expected to change the conclusions of this report and have not been reviewed. If a review of these documents reveals additional information that changes the conclusions of this report, an addendum will be issued.

Documents previously received from the RWQCB in 2007 include a 2006 presentation summarizing illegal discharges to a creek bed (located offsite at the main Careaga tank battery) and wastewater injection into an unpermitted idle well (Well C-#60, located onsite) conducted under a previous site operator (Careaga Hydrocarbons, Inc.) reported by Phoenix Energy Inc. Based on information provided by the current operators, these operations have not been conducted for the last 12 years at a minimum.

Discharges of wastewater into idle injection well Careaga 60 occurred on or about July 2003 and included an estimated volume of approximately 1,543,000 barrels of brine water with possible communications with fresh water. The well had a casing but was not equipped with tubing or a packer. Documentation indicates that a permit to convert Careaga 60 to a water disposal well was approved in 2006.

No follow-up documentation regarding these unpermitted discharges was provided by the RWQCB.

6.2.3 Santa Barbara County Department of Environmental Health

Records requests were made to the Santa Barbara County Department of Environmental Health, CUPA, Oil Field Division, and Building Department. Documents received from the Santa Barbara County include the following:

- Hazardous Materials Minor Spill and Release Incident Reports, Complaint Investigation Reports, Notices to Comply, Notices of Violation (NOVs). Reports identified for incidents located within or immediately adjacent to the Subject Property include:
    - Careaga well #3 – gas leak identified during annual inspection in 2010, abatement was performed by October 2010 and the petroleum enforcement cases were closed.
    - Careaga well #37 – 8/3/2007 stuffing box failure resulting in release of 20 bbls of crude oil, impacts to soils and adjacent soils along downslope drainage/wash. Impacted soil was removed and disposed of offsite. This well is located offsite, but very close to the Subject Property southern boundary, and is proposed for abandonment.
    - Careaga well #B-5 – 11/3/06 crude oil leak from line, approximately 2 gallons; 10/4//06 approximately 6 bbls of produced water dripped into well cellar, notes no cleanup required; 9/29/06 release of 10 gallons of produced water into well cellar and surrounding area from starting up well, 9/23/06 release of 50 bbls of produced water from suspected hole in tubing.
    - Careaga well #75 – 11/3/06 –stuffing box leak of 3 gallons of crude oil to ground around wellhead.
    - Careaga well #45 – 11/3/06 –stuffing box leak of 0.5 gallons of crude oil to ground around wellhead.
    - Other incident reports without detailed location information include a produced water release to creek bed (likely the same offsite incident described above); an injection well leak in 2006; and a release of crude oil from overfill of a tanker at a tank battery in 2008. Most of the report documents indicate that the condition was abated but not all of the spills reports have follow-up documentation provided. For several releases with small volumes of produced water or crude oil considered to be routine, the abatement is described as "mixed with dirt."
- Various annual business plan certifications and hazardous material inventory forms from 2000-2023. Hazardous materials identified, but which are not necessarily stored within the bounds of the Subject Property, include corrosion inhibitors, mineral spirits, sulfa-check, emulsion breaker, surfactant, asphaltene control, scale inhibitor, drip gas, gear lubricant, hydraulic oil, hydrogen sulfide scavenger/treatment, oxygen scavenger, produced field gas, produced waste water, and crude oil. A 2025 HMBP Inspection identified no NOVs, only minor violations noted in prior inspection reports.
- 2008 Oil Spill Prevention Control and Countermeasure Plan (SPCC) for Orcutt Hill Oilfield.
- Various documents and inspection reports related aboveground petroleum storage.

- Business Plan records for Verizon/AT&T Mobility from 2005-2019 on Mt. Solomon related to diesel fuel tank for generator, including hazardous materials inventory for batteries, freon, and diesel, and inspection records.

6.2.4 Department of Toxic Substances Control

File review requests to Department of Toxic Substances Control (DTSC) did not identify any records from the Chatsworth, Clovis, or Berkeley offices.

Listings for the Subject Property identified on the DTSC's Envirostor online database included an inactive FUDS listing for Beacon Site #4 AAF, which is located at the top of Mt. Solomon. Documents include a Findings of Fact which states the site was used for an aviation navigation and hazards beacon, mounted on the roof of a structure, from approximately 1942 to 1959. Acetylene gas and a generator were used to power the beacon and were stored in the structure. It was determined that a restoration project was not appropriate and it was given a recommendation for no further action on the project from the Department of the Army in 1990.

Waterstone also searched for the Subject Property in the DTSC's Hazardous Waste Tracking System (HWTS). Information identified the following listings at 1555 Orcutt Hill Road (though it is not clear if they are directly associated with the Subject Property or other portions of the oil field): (i) an active listing for Pacific Coast Energy Company LP Orcutt Hill (CAL000421539) which was issued 10/28/2016 listed disposal of asbestos-containing waste in 2016 and other organic solids in 2021; (ii) an inactive listing for Pacific Coast Energy Company LP Orcutt Hill (CAP000365049) which was issued 12/11/2023 and did not have any associated manifests listed; (iii) an inactive listing for Pacific Coast Energy Company LP (CAR000012393) which was issued 6/20/1996 and listed disposal between 1997 and 2014 for asbestos-containing waste, inorganic solid waste, waste oil and mixed oil, PCBs, off-spec aged or surplus organics, organic solids, and alum and gypsum sludge; and (iv) an inactive listing for Newbridge Resources LLC – Careaga Lease (CAL000471088) which was issued 6/3/2022 and did not have any associated manifests listed.

6.2.5 Santa Barbara County Air Pollution Control District

Documents available on the Santa Barbara County Air Pollution Control District (APCD) Facilities website included permits, annual reports, emissions history, inspection records, and NOVs. Facilities which mapped within the bounds of the Subject Property included the following:

- Verizon Wireless – Solomon Peak, Facility ID 10581. Emergency diesel generator with records available from 2013 through 2023. No violations noted.
- VAFB – Orcutt, Facility ID 10641. Emergency diesel generator with records available from 2013 through 2023. No violations noted.
- Careaga Lease, Facility ID 01517. Files include annual reports of daily oil production, weekly sulfur content, H2S detections, steam generation, emissions monitoring, flare and thermal oxidizer logs, oil shipment, and chemical usage logs (mineral spirits). Permits available for review were for operations which are primarily located offsite of the Subject

Property, including equipment associated with the Diatomite Project for steam injection, tank battery upgrades (adjacent to Bicknell Road), gas buster and flare, and diesel generator.

NOVs listed include a violation of Rules 206 and 325 for failure to control emissions of produced gas during a September 3, 2024 inspection. The source of the leak was found to be from a crack in the cement around the well conductors at Careaga Well #3, which appears to not be the well #3 located on the Subject Property because well #3 on the Subject Property is plugged. Other NOVs include a violation of Rule 206 for exceedance of total sulfur content during an August 14, 2018 thermal oxidizer source test, and a violation of Rule 331 for operating with an open-ended line leaking in excess of 1,000 ppm during an August 11, 2016 inspection (exact location not provided), which was repaired the same day.

- Newlove Lease, Facility ID 03321. Files similar to those available for the Careaga Lease, but the most recent annual report from 2022 was for the entire Orcutt Hill Oilfield, not just the Newlove Lease. Permits available for review were for operations which are primarily located offsite of the Subject Property, including equipment associated with the electrification of equipment and wash tank replacement.

6.3 Review of Previous Environmental Documents

Below is a summary of previous environmental investigations performed at the Subject Property which were not otherwise identified in agency files and/or were provided by entities from PCEC. Excerpts from the reports are included in Appendix K. Most of the studies were performed over larger areas of the Orcutt oilfield area and included the Subject Property. Where possible, the scope and results applicable to the Subject Property are summarized, or if not, a general summary of the investigation is provided.

- Plot Map of Main Fuel Gas Line and Orcutt Oil Transfer Line for the Cat Canyon Field 1971

  This plan shows a 3-inch oil line and 20-inch gas line traversing the Careaga Lease from Cat Canyon to the east, beneath Highway 101, then west across the Subject Property to the area of the Careaga main tank battery. The pipes are thought to be intact but have been idle for 20+ years, with some sections possible removed.

- Katherman Exploration Co. Cost Analysis Environmental Clean-up March 9, 1992

  This letter list the oil wells and recommended cleanup actions with estimated costs. Oil spills were noted at several wells, as were open test tanks, and possible oil sumps. This confirmed the presence of historical sumps at some of the same wells listed previously.

- 1995 Dames and Moore

  A copy of this report was not available but was summarized in Harding ESE's 2001 Report. Dames and Moore concluded that operations and site conditions were generally typical of oilfield properties and that the property was well maintained. Many of the items of environmental concern identified by Dames and Moore were located offsite at

the primary tank battery and shipping facility on the Careaga lease. General items identified which may apply to the Subject Property included hydrocarbon-stained soils, known leaks/spills of crude oil, produced water, and/or drilling mud, incidental leaks, former sumps potentially at each well, pipelines and related items, surface impoundments, soil containing crude oil used for road or berm construction, oil sprayed on embankments for erosion control, possible PCBs from former electrical transformers, unlined well cellars, disposal areas and salvage yards.

- 1995 ENSR

  A copy of this report was not available but was summarized in Harding ESE's 2001 Report. Limited Phase II sampling was performed by ENSR in 1995 at the Newlove, Careaga, Pinal, and Hobbs Fees, with most of the sampling located outside the bounds of the Subject Property. Sampling on the Subject Property included the Geo (aka Gitte-Ten) tank battery. No notable impacts were found at the Subject Property. ENSR was unable to locate former drilling sumps for sampling.

- Gitte-Ten Tank Battery Improvements

  This document shows the proposed replacement of aboveground tanks at the Gitte-Ten tank battery in 2008. It proposed the removal of four ASTs (1,000 bbl wash tank, 1,000 bbl stock tank, and two 500 bbl waste water tanks), and the installation of one new 1,000 bbl wash tank. The tanks were removed and one new wash tank was installed, but it is out of service (2008) and does not appear to have ever been used. *Dates corroborated by email correspondence from CalGEM files.*

- Well Cellar Removals List 2009

  PCEC provided a list dated September 2009 of 20 wells on the Careaga Lease with cellars, eight of which were located on the Subject Property. The list noted the dimensions of the cellars and identified six cellars to be removed from wells on the Subject Property. There were also photographs of the cellars attached which show staining around the wells and cellars.

- 2011 Hazardous Materials Annual Permit

  This lists hazardous materials used at the Gitte-Ten area site which was consistent with those listed in the materials obtained from the County of Santa Barbara Environmental Health CUPA.

- Spill Prevention Control and Countermeasures (SPCC) Plan for Careaga Oil and Gas Lease – April 8, 2013 (Rev #3)

  An SPCC is on file in accordance with 40 CFR Part 112 and California H&S Code Chapter 6.67 to prevent oil spills from reaching navigable waters and adjoining shorelines by detailing facility-specific measures for spill containment, control, and response. It includes an inventory of site features such as tanks, pipelines, and equipment, as well as inspection requirements, procedures, training, and awareness, The SPCC identifies chemicals present at the site including corrosion/asphaltine inhibitors, oils and lubricants, produced field gas, demulsifier and hydrogen sulfide scavengers, and includes pipeline maps as an Appendix.

- 2015 Santa Maria Energy Supplemental Response to RWQCB Section 13267 Order Re: Sumps

  In 2015, a letter was submitted to the RWQCB by Santa Maria Energy, LLC (SME) as a supplemental response to an October 15, 2015 CWC Section 13267 Order regarding the potential impacts of discharge to land by sumps and the potential impact to water quality on surface or groundwater that serves as a source of drinking water. Based on research and historical records, the letter provided documentation of the excavation of sumps at 11 well locations on the Careaga portion of the Subject Property during the time period of 1902-1930 by Shell Oil Company. The letter included a map and list of wells with sumps (see Appendix L), which includes a list of wells with known sump excavations is summarized in . The amounts of fluids previously discharged into each historic sump and whether the sumps were closed with or without cleanup was unknown. SME did not use sumps during its period of operations which began in 2003, and there were no active sumps on the Careaga property at the time of the letter.

- Stormwater Pollution Prevention Plan (SWPPP) for Careaga Lease June 2015, Revised November 2020

  The SWPPP identifies potential for material spills and leaks related to crude oil and produced water from wells, tanks, and pipelines, and best management practices (BMPs) for these as well as chemical storage areas, and equipment storage areas. The SWPPP identified best management practices such as good housekeeping, preventative maintenance, spill and leak prevention and response, material handling and waste management, and erosion and sediment control. It also includes stormwater sampling procedures.

6.4 Potential for Vapor Encroachment

As a part of the Phase I EA investigation, Waterstone reviewed all reasonably ascertainable information for the Subject Property and nearby properties to determine if potential vapor-phase migration concerns may be present which could impact the Subject Property. The information reviewed includes regulatory databases, files for nearby sites, and historical documentation.

The Subject Property has a history of over 100 years of active oil production. During such long-term use, it is anticipated that spills and leaks of crude oil and possibly other compounds used in the oil field would have occurred. During the site inspection (described in Section 7 of this report), no significant crude oil spills or other chemical spills to soil were noted. Most well heads examined showed minor areas of stained soil or oil at the surface.

Soil vapor sampling conducted by Waterstone in 2024 detected elevated concentrations of benzene and ethylbenzene in samples located at Careaga wells #68 and 78, as well at the test header on the Careaga lease, which is indicative of a vapor encroachment condition (VEC) in select areas of the Subject Property. Methane vapors are also a consideration in an oilfield setting.

6.5 Summary of Subject Property and Vicinity History/Land Use

Waterstone reviewed available historical documents, local agency records, and previous environmental assessments to determine the history of the Subject Property. The history of the Subject Property and vicinity is summarized as the following:

- The Subject Property and surrounding areas are located in a portion of unincorporated Santa Barbara County that is identified as the Orcutt Hills and the Orcutt Oil Field. This area is primarily undeveloped but is also used for cattle grazing, agriculture and oil and gas production. Oil field activities began in the early 1900s. Many small oil companies and Union Oil began the early development of the oil field and Union Oil was the primary operator through the 1950s. The oilfield is currently operated by PCEC.
- The industrial operations on the Subject Property include 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are located on Bicknell Road or Newlove Park area and considered to be part of access, basin or park improvements. Four of those offsite wells are located within a 30-foot-wide right of way along the length of Bicknell Road. Additional oilfield related features on the Subject Property include historical sumps, historical aboveground storage tanks/tank batteries, oilfield piping and test headers, separators, chemical use and equipment storage areas, jack line, historical dump sites, and oiled roadways/berms. A list of the current and former wells within the bounds of the Subject Property and their current status is included in Appendix D. Oilfield features of potential environmental concern are summarized in Table 1.
- Radio and telecommunication towers and a lookout are located at the top of Mount Solomon, located in the north-central portion of the Newlove lease. Additionally, a weather station associated with Vandenberg Air Force Base is located in the northwest portion of the Newlove lease. Diesel tanks associated with emergency generators are present at these facilities.
- The Subject Property mailing address and current and former property operators (PCEC/Newbridge Resources/Phoenix Energy**)** were listed in the PFAS ECHO, FUDS, CHMIRS, UIC, FINDS, EMI, and CERS databases in the EDR Report.
- Documents identified in RWQCB, CalGEM, and Santa Barbara County files identified multiple spill/release reports for features located on the Subject Property, including:
    - Careaga well #45 – 5/29/1997 – valve stem packing failure resulting in release of 5-10 bbls of oil misted over a 100’ by 150’ area and 11/3/06 stuffing box leak of 0.5 gallons of crude oil to ground around wellhead.
    - Careaga well #4 – 5/31/1999 – leaky nipple on the test tank leaked approximately 0.5 bbls of oil over a 1’ by 60’ area down a paved lease road. Cleanup included a backhoe to dust the road and remove any oil not on the paved road.
    - Unpermitted wastewater injections at idle well Careaga #60 were identified in files from the RWQCB. The well was approved for conversion to a water disposal well in 2006.

- Other incident reports without detailed location information include a produced water release to creek bed (presumed to be offsite at the Careaga tank battery), and an injection well leak in 2006. Most of the report documents indicate that the condition was abated but not all of the spills reports have follow-up documentation provided. For several releases with small volumes of produced water or crude oil considered to be routine, the abatement is described as "mixed with dirt."
- Careaga well #B-5 – 11/3/2006 crude oil leak from line, approximately 2 gallons; 10/4/2006 approximately 6 bbls of produced water dripped into well cellar, notes no cleanup required; 9/29/2006 release of 10 gallons of produced water into well cellar and surrounding area from starting up well, 9/23/2006 release of 50 bbls of produced water from suspected hole in tubing. This well is also listed in the UIC database as a waste disposal well, but is currently idle.
- Careaga well #75 – 11/3/06 stuffing box leak of 3 gallons of crude oil to ground around wellhead.
- Careaga well #37 – 8/3/2007 stuffing box failure resulting in release of 20 bbls of crude oil, impacts to soils and adjacent soils along downslope drainage/wash that feeds into a blue line stream. Impacted soil was removed and disposed of offsite. This well is located offsite, but very close to the Subject Property southern boundary, and is proposed for abandonment.
- Careaga well #3 – gas leak identified during annual inspection in 2010, abatement was performed by October 2010 and the petroleum enforcement cases were closed.

- Based on information provided by the current operators, no injections have been conducted at Subject Property wells for the last 12 years, except small amounts for integrity testing.
- SWPPPs and HMBPs prepared for the Orcutt Oilfield identified hazardous materials, which are not necessarily stored within the bounds of the Subject Property, including corrosion inhibitors, mineral spirits, sulfa-check, emulsion breaker, surfactant, asphaltene control, scale inhibitor, drip gas, gear lubricant, hydraulic oil, hydrogen sulfide scavenger/treatment, coolants, oxygen scavenger, produced field gas, produced waste water, and crude oil.
- Several Phase I and Phase II environmental assessments have been performed for the Orcutt Hill Oilfield since 1995, most of which encompassed both the Subject Property and other leases in the vicinity of the Subject Property. Key findings and areas of potential environmental concern from these reports are summarized as follows:
  - **Harding ESE (October 2001):** At the Subject Property, Harding ESE noted Tank Battery 37A, with staining observed around the western pump and earthen berms with asphaltic coating present; former Santa Fe Energy Tank Battery near well #68; test header and small corroded AST observed near well #75; test header near well #6; jack line observed between wells #6 and 11, where oil was observed at the base of the motor; dumpsites noted in the west-central portion of the Newlove lease; and general chemical and equipment storage and usage areas, soil adjacent

to oil wells, sumps, pipelines, condensate traps, asbestos-containing materials, soils containing crude oil used for road/berm construction, leaks/spills/pits involving crude oil/produced water/drilling mud.

- **Waterstone (September 2004):** Waterstone's 2004 Phase I was performed across multiple oilfield properties in the Orcutt Hill area, similar to Harding ESE's ESA. RECs identified in the Phase I report were similar to those noted by Harding ESE above.
- **Waterstone (October 2007):** Waterstone performed a Phase II investigation at the Newlove and Careaga leases to evaluate environmental conditions and determine whether remedial action would be required. Within the current Subject Property boundary, the study included sampling and analysis of 70 soil samples from approximately 25 locations adjacent to oilfield features (oil wells, tank farms, sumps, etc.) for analysis of TPH, VOCs, SVOCs, and/or Title 22 metals. Concentrations above current screening levels were reported for 7 of the 70 samples (10%) at 4 of 19 features (21%):
  - Three oil wells (Careaga #61, #63, and #78)
  - One dump site (sample D-2).
- **Waterstone (April 2022):** Waterstone's 2022 Phase I was prepared for the entire Careaga Lease of 1,145 acres, including the western portion of the lease not within the current Subject Property bounds. RECs identified in the Phase I report which are located within the current Subject Property bounds (eastern 452 acres) included:
  - Existing and former facilities such as oil/gas/injection wells, tank batteries, chemical and equipment storage areas, condensate traps, sumps, pipelines, stained soil noted in and around various facilities/operational areas, dumpsites, transformer sites, oil seep/stained areas, oily soils used for road/berm construction, and leaks/spills/pits involving crude oil/produced water/drilling mud.
  - Past environmental investigations which reported elevated concentrations of petroleum hydrocarbons in and near the various site feature types listed above.
  - Though not identified as RECs, it was also noted that asbestos may be present in pipeline materials or pipeline wrap and lead-based paint may be present in painted surfaces.
- **Waterstone (June 2024):** Waterstone's 2024 Phase II and Draft RAP was prepared for an area encompassed by the current Subject Property bounds, excluding Bicknell Road. The Phase II study included sampling and analysis of soil and/or soil vapor at twenty-two (22) site features. On the Subject Property, locations with elevated TPH and/or VOC concentrations were reported for:
  - Two oil wells (Careaga #63 and #78)
  - One test header on the Careaga lease (sample TH1).

- Slightly elevated concentrations of metals were also detected at Careaga well #60 (arsenic at 13 mg/kg) and well #74 (cadmium at 56 mg/kg).

Based on the findings of the 2007 and 2024 Phase IIs, a Draft RAP was prepared which discussed site remediation to be performed in conjunction with abandonment and removal of oilfield infrastructure, including wells, tanks, piping, equipment, and historical sumps/mud pits. Specific remediation areas and their expected cleanup depths identified in the RAP based on the prior sampling efforts include:

- Newlove Former Dump Area D-2 (25')
- Careaga Well #61 (7')
- Careaga Well #63 (22')
- Careaga Well #78 (22')
- Careaga Test Header TH1 (12').

Comments received from Santa Barbara County EHS/SMU indicate the RAP was not approved as proposed and requested further evaluation of environmental features and a sampling plan. EHS indicated that a separate closure report will be required for each feature identified which requires remediation, and that a Soil Management Plan will be required.

- Based on research and historical records, excavation of sumps at 11 well locations on the Careaga portion of the Subject Property during the time period of 1902-1930 by Shell Oil Company was documented. The list of wells with known sump excavations is summarized in Table 1. The amounts of fluids previously discharged into each historic sump and whether the sumps were closed with or without cleanup was unknown.
- Based on the results of the site inspection (further discussed in Section 7), no excessive crude oil spills or other chemical spills to soil were noted and minor staining of soil or oil were observed at the well heads examined. Crude oil and material spills are generally handled by moving the impacted material to the permitted offsite WPMF, but the beneficial re-use areas for oil-impacted soils include well pads located on the Subject Property.
- Multiple Underground Injection Control (UIC) projects associated with the Orcutt Oilfield are located offsite of the Subject Property; however, several of the pilot steam wells associated with the Cyclic Steam Project for Santa Maria Energy are located immediately adjacent to Bicknell Road in the vicinity of the Careaga gas plant.
- Soil vapor sampling conducted by Waterstone in 2024 detected elevated concentrations of benzene and ethylbenzene in samples located at Careaga wells #68 and 78, as well at the test header on the Careaga lease, which is indicative of a vapor encroachment condition (VEC) in select areas of the Subject Property.

Section 7.0
Subject Property Inspection Observations

7.1 Personnel Interviews

At the time of the site inspection, Waterstone met with representatives from PCEC including Doug Miller, Rich Field, and Peter Kiesecker. The User Questionnaire was completed by Phillip Brown, PCEC Chief Operating Officer. Mr. Field supplied Waterstone with documentation for Subject Property including copies of the HMBP, waste soil management documentation, and the SPCC Plan for aboveground oil storage. Information procured from the User and other staff are included throughout Section 7.0 of this report.

7.2 Subject Property Inspection Observations

On June 25, 2025, Waterstone performed an inspection of the Subject Property and vicinity. Subject Property photographs are included as Appendix M. During the site visit, Waterstone staff observed the following operational equipment and features on the Subject Property:

- 31 oil/gas wells
    - According to well counts there are 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are located on Bicknell Road or Newlove Park area and considered to be part of access, basin or park improvements.
- Aboveground Storage Tanks (Gitte-Ten Tank Battery - out-of-service)
- Pipelines
- Separators/Test Headers
- Out-of-Service Equipment and Storage Areas.

Subject Property Feature Summary Table

Feature / Characteristic	Y/N	Comments
Underground Storage Tanks (USTs)	N	None were identified during the site inspection.
Aboveground Storage Tanks (ASTs)	Y	One existing out-of-service tank battery (Section 32, former Gitte-Ten,) was observed at the southern end of the Careaga lease. A placard indicated the facility was taken out of service as of March 2008 One 1,000-barrel Gauge Tank The downslope side of the tank battery is bordered by an earthen secondary containment berm. Former tank batteries are located throughout the Subject Property as shown on Figure 4 and are no longer in service. While not observed by Waterstone, it is known there are diesel fuel ASTs associated with emergency generators at the Mount Solomon

Subject Property Feature Summary Table

Feature / Characteristic	Y/N	Comments
		radio towers facility and the air force weather station facility.
Hazardous Chemicals (including petroleum and pesticides)	Y	Hazardous materials identified include corrosion inhibitors, scale inhibitor, produced waste water, and crude oil. Scale and corrosion inhibitor in poly containers within secondary containment were observed at several well sites. A chemical inventory was reviewed from the HMBP and is included with the agency documents in Appendix J.
Other or Unidentified Drums and Containers	Y	An empty shipping storage container and totes were observed in equipment storage areas throughout the Subject Property.
Septic Tanks	N	
Drainage Systems	Y	Dry creek beds and other natural drainages are present on the Subject Property.
Sumps	N	
Clarifiers	N	
Hoists or Lifts	N	
Dumping or Filling Activities	N	
Vapor Intrusion/Odors	N	
Floor Drains	N	
Materials Spills	Y	Soil from material spills is congregated off-site at the contaminated soil Waste Pile Management Facility located off-site 2 miles to the west.
Monitor/Supply/ Disposal Wells	N	One idle wastewater injection well (Careaga B-5) is located at the Subject Property. There were reports of historical injections at Careaga Well 60.
Air Emissions	Y	Permits for current wells and oil production equipment and any associated NOVs are discussed in Section 6 of this report.
Unusually Stained Pavement or Flooring	N	
Pits, Ponds, Lagoons	N	
Pools of Liquid	N	
Roads and Trails With No Apparent Purpose	N	
Stained or Disturbed Soil	N	
Stressed Vegetation	N	
High Voltage Power Lines/ Magnetic Fields	N	
Wastewater Generation	Y	Produced water from the oil wells is separated and disposed of through an active injection well located offsite of the Subject Property. Produced water was formerly injected at Careaga Well B-5.
Solid Waste Storage	Y	Unused oil field equipment storage areas were observed near Well C-#6742X and abandoned Wells C-#102 and C-#146.
Electrical Transformers	Y	Several pole-mounted transformers were observed in good condition at the Subject Property.
Evidence of Historical Features	Y	Concrete pads and mechanical debris were observed, and an abandoned jack-line between Wells C-#6 and C-#11 was observed at the Subject Property which were associated with historical oil field operations.
Evidence of Historical Processes or Material Usage/Storage	Y	One out-of-service injection well and an empty storage tanks were observed at the Subject Property.

7.2.1 Historical Materials of Concern

Polychlorinated Biphenyls (PCBs)

Polychlorinated Biphenyls (PCBs) were used as coolants and insulators in electrical transformers beginning in 1929. Exposure to PCBs has since been found to cause liver ailments, skin lesions, tumors, and growth and reproductive problems. Use of PCBs was regulated in 1977. No records or evidence were identified indicating the presence of PCBs on the Subject Property. Several pole-mounted transformers were observed in good condition at the Subject Property, with those along Bicknell Road labeled as "Non-PCB". PCB-containing transformers were reportedly removed and replaced in 2006-2007. No PCBs were detected during sampling conducted by Waterstone in 2007 at the dump, pit, sump, building, and transformer areas that were evaluated, nor in 2024 at a transformer storage area located on the Careaga lease.

Suspect Asbestos-Containing Materials

While the use of asbestos in the manufacture of most building materials has not been fully prohibited by federal law, the use of asbestos, for the most part, has voluntarily been discontinued since the late 1970s. Some non-friable materials, such as roofing material and floor coverings (floor tile and mastic) may have been manufactured with asbestos materials and may have been used into the early 1980s. Certain oilfield pipes may have asbestos wrap, although there is no direct knowledge of any and none were observed on the Subject Property.

Lead-based Paint

Lead was a major ingredient in paint pigment prior to and through the 1940s. While other pigments were used in the 1950s, the use of lead in paint continued until the mid-1970s. In 1978, the Consumer Products Safety Commission banned paint and other surface coating materials, which are lead-containing. Based on the longevity of the former structures, tanks, and other equipment at the Subject Property, it is likely that lead-based paints were used during their construction and/or maintenance.

7.2.2 Utilities

According to the User, the following utilities service the area:

- Water – Private Water Well
- Gas – PG&E
- Electric – PG&E

7.2.3 Oil and Gas Wells and Pipelines

The Subject Property is located within the Orcutt Oil Field. A list of the active, idle, and abandoned oil wells within the Subject Property is provided in Appendix D of this report. Based on oil and gas pipeline maps in the Careaga Lease SPCC Plan and estimates provided by Land

Development Consultants, it's estimated there are approximately 55,500 linear feet of pipeline. The lines are generally located alongside the lease roads.

7.2.4 Public Water Wells

No public water wells were observed on the Subject Property during the Subject Property inspection or are known to exist on the Subject Property. The property is supplied by a private water well for non-potable water.

7.2.5 Radon

Radon is a gas that can seep into structures constructed in areas with soils containing uranium. Radon travels through soil and enters the structure through cracks and holes in basement walls or floor drains, or other openings. Based on the location of the Subject Property according to information provided by the USEPA, there is a low potential for radon levels above the USEPA action level of 4.0 picocuries per liter in this area of Santa Barbara County.

7.2.6 Mold

Mold and/or fungi growth generally occurs on cellulose-based material, such as wood or drywall paper, that has been inundated with excess moisture. The presence of mold and/or fungi growth is normally an indication of a plumbing, roofing, other leak, and/or water source that results in the abnormal presence of moisture. It is possible that significant fungal spore growth inside walls, insulation, attic spaces, or other areas can exist and not be visible on the finished surfaces of a building's interior spaces. Waterstone did not perform: (i) a mold/fungi inspection, (ii) any building material surface mold sampling, or (iii) air sampling for mold spores at the Subject Property as such sampling is beyond the scope of this Phase I.

7.2.7 Engineering Controls

No engineering controls were observed at the Subject Property.

7.3 Neighboring Property Inspection Observations

Visual observations of adjoining properties were made from the vantage point of the Subject Property as well as from public rights-of-way to determine the potential impact of these sites on the Subject Property. The following table summarizes neighboring property observations and neighboring properties listed in the EDR Radius Report:

Neighboring Property Summary Table

Property Characteristics	Observations
Surrounding Property General Description	The Subject Property is located within an area of unincorporated Santa Barbara County, California (south of the city of Orcutt) and is used primarily for oil and gas production and cattle grazing.
Neighboring Properties Listed in EDR Area Study	There were no nearby properties identified in the EDR Area Study within ASTM-defined distances of the Subject Property as discussed in Section 5 of this report.
Groundwater Monitoring Wells	Groundwater monitoring wells were not observed on adjacent properties; however, Waterstone did not enter adjacent properties to perform a thorough inspection.
Underground Features	No evidence of underground features was observed in the vicinity of the Subject Property, but Waterstone did not enter adjacent properties to perform a thorough inspection.
Evidence of Subsurface Investigation	No evidence of subsurface investigations was observed in the vicinity of the Subject Property, but Waterstone did not enter adjacent properties to perform a thorough inspection.

Section 8.0
Summary and Conclusions

8.1 Summary

The Subject Property is comprised of 1,616 acres on portions of the Newlove and Careaga oil and gas leases in the Orcutt Hills Oilfield. This includes the 1,616 acre Specific Plan Area as well as the area identified as offsite improvements related to roads, parks and basins. The Subject Property is part of the larger Solstra-owned Solomon Hills Property that is approximately 4,195 acres inclusive of APNs 101-020-041, -043, -085, -086 and -087.

The leases are currently operated by Pacific Coast Energy Company LP (PCEC). Parcels include portions of Assessor's Parcel No. (APN) 101-020-085 and APN 101-020-086 and all of APN 101-020-087. Additionally, the Subject Property includes the approximate 3.5-mile length of Bicknell Road from the western extent of the Specific Plan area to Graciosa Road. The boundaries of the Subject Property are shown on Figures 1 and 2. Figures 3 provides details of features on the Newlove lease portion of the Subject Property, Figure 4 the Careaga lease portion, and Figures 5A and 5B the Bicknell Road portion.

The Subject Property is located within the southern and western slopes of the Solomon Hills, due south of the town of Orcutt. Addresses identified in records associated with the Subject Property include 1555 Orcutt Hill Road, Santa Maria, California, which is the office for the Orcutt Oilfield, and not technically located within the bounds of the Subject Property. The Subject Property has been used for oil and gas exploration and production dating back to the early 1900s,

Based on available historical documents, local agency records, and previous environmental assessments, the history of the Subject Property and neighboring properties is summarized as follows:

- The Subject Property and surrounding areas are located in a portion of unincorporated Santa Barbara County that is identified as the Orcutt Hills and the Orcutt Oil Field. This area is primarily undeveloped but is also used for cattle grazing, agriculture and oil and gas production. Oil field activities began in the early 1900s. Many small oil companies and Union Oil began the early development of the oil field and Union Oil was the primary operator through the 1950s. The oilfield is currently operated by PCEC.
- The industrial operations on the Subject Property include 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are located on Bicknell Road or Newlove Park area and considered to be part of access, basin or park improvements. Four of those offsite wells are located within a 30-foot-wide right of way along the length of Bicknell Road. A well status summary table is included in Appendix D. Additional oilfield related features on the Subject Property include historical sumps, historical aboveground storage tanks/tank batteries, oilfield piping and test headers, separators, chemical use and equipment storage areas, jack line, historical dump sites, and oiled roadways/berms. Oilfield features of potential environmental concern are summarized in Table 1.

- Radio and telecommunication towers and a lookout are located at the top of Mount Solomon, located in the north-central portion of the Newlove lease. Additionally, a weather station associated with Vandenberg Air Force Base is located in the northwest portion of the Newlove lease. Diesel tanks associated with emergency generators are present at these facilities.
- The Subject Property mailing address and current and former property operators (PCEC/Newbridge Resources/Phoenix Energy**)** were listed in the PFAS ECHO, FUDS, CHMIRS, UIC, FINDS, EMI, and CERS databases in the EDR Report.
- Documents identified in RWQCB, CalGEM, and Santa Barbara County files identified multiple spill/release reports for features located on the Subject Property, including:
    - Careaga well #45 – 5/29/1997 – valve stem packing failure resulting in release of 5-10 bbls of oil misted over a 100' by 150' area and11/3/06 –stuffing box leak of 0.5 gallons of crude oil to ground around wellhead.
    - Careaga well #4 – 5/31/1999 – leaky nipple on the test tank leaked approximately 0.5 bbls of oil over a 1' by 60' area down a paved lease road. Cleanup included a backhoe to dust the road and remove any oil not on the paved road.
    - Other incident reports without detailed location information include a produced water release to creek bed (presumed to be offsite at the Careaga tank battery), and an injection well leak in 2006. Most of the report documents indicate that the condition was abated but not all of the spills reports have follow-up documentation provided. For several releases with small volumes of produced water or crude oil considered to be routine, the abatement is described as "mixed with dirt."
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    - Careaga well #37 – 8/3/2007 stuffing box failure resulting in release of 20 bbls of crude oil, impacts to soils and adjacent soils along downslope drainage/wash that feeds into a blue line stream. Impacted soil was removed and disposed of offsite. This well is located offsite, but very close to the Subject Property southern boundary, and is proposed for abandonment.
    - Careaga well #3 – gas leak identified during annual inspection in 2010, abatement was performed by October 2010 and the petroleum enforcement cases were closed.

- SWPPPs and HMBPs prepared for the Orcutt Oilfield identified hazardous materials, which are not necessarily stored within the bounds of the Subject Property, including corrosion inhibitors, mineral spirits, sulfa-check, emulsion breaker, surfactant, asphaltene control, scale inhibitor, drip gas, gear lubricant, hydraulic oil, hydrogen sulfide scavenger/treatment, coolants, oxygen scavenger, produced field gas, produced waste water, and crude oil.
- Several Phase I and Phase II environmental assessments have been performed for the Orcutt Hill Oilfield since 1995, most of which encompassed both the Subject Property and other leases in the vicinity of the Subject Property. Key findings and areas of potential environmental concern from these reports are summarized as follows:
    - **Harding ESE (October 2001):** At the Subject Property, Harding ESE noted Tank Battery 37A, with staining observed around the western pump and earthen berms with asphaltic coating present; former Santa Fe Energy Tank Battery near well #68; test header and small corroded AST observed near well #75; test header near well #6; jack line observed between wells #6 and 11, where oil was observed at the base of the motor; dumpsites noted in the west-central portion of the Newlove lease; and general chemical and equipment storage and usage areas, soil adjacent to oil wells, sumps, pipelines, condensate traps, asbestos-containing materials, soils containing crude oil used for road/berm construction, leaks/spills/pits involving crude oil/produced water/drilling mud.
    - **Waterstone (September 2004):** Waterstone's 2004 Phase I was performed across multiple oilfield properties in the Orcutt Hill area, similar to Harding ESE's ESA. RECs identified in the Phase I report were similar to those noted by Harding ESE above.
    - **Waterstone (October 2007):** Waterstone performed a Phase II investigation at the Newlove and Careaga leases to evaluate environmental conditions and determine whether remedial action would be required. Within the current Subject Property boundary, the study included sampling and analysis of 70 soil samples from approximately 25 locations adjacent to oilfield features (oil wells, tank farms, sumps, etc.) for analysis of TPH, VOCs, SVOCs, and/or Title 22 metals. Concentrations above current screening levels were reported for 7 of the 70 samples (10%) at 4 of 19 features (21%):
        - Three oil wells (Careaga #61, #63, and #78)
        - One dump site (sample D-2).
    - **Waterstone (April 2022):** Waterstone's 2022 Phase I was prepared for the entire Careaga Lease of 1,145 acres, including the western portion of the lease not within the current Subject Property bounds. RECs identified in the Phase I report which are located within the current Subject Property bounds included:
        - Existing and former facilities such as oil/gas/injection wells, tank batteries, chemical and equipment storage areas, condensate traps, sumps, pipelines, stained soil noted in and around various facilities/operational areas, dumpsites, transformer sites, oil seep/stained areas, oily soils used

for road/berm construction, and leaks/spills/pits involving crude oil/produced water/drilling mud.

- Past environmental investigations which reported elevated concentrations of petroleum hydrocarbons in and near the various site feature types listed above.
- Though not identified as RECs, it was also noted that asbestos may be present in pipeline materials or pipeline wrap and lead-based paint may be present in painted surfaces.

- **Waterstone (June 2024):** Waterstone's 2024 Phase II and Draft RAP was prepared for an area encompassed by the current Subject Property bounds, excluding Bicknell Road. The Phase II study included sampling and analysis of soil and/or soil vapor at twenty-two (22) site features. On the Subject Property, locations with elevated TPH and/or VOC concentrations were reported for:
  - Two oil wells (Careaga #63 and #78)
  - One test header on the Careaga lease (sample TH1).
  - Slightly elevated concentrations of metals were also detected at Careaga well #60 (arsenic at 13 mg/kg) and well #74 (cadmium at 56 mg/kg).

  Based on the findings of the 2007 and 2024 Phase IIs, a RAP was prepared which discussed site remediation to be performed in conjunction with abandonment and removal of oilfield infrastructure, including wells, tanks, piping, equipment, and historical sumps/mud pits. Specific remediation areas and their expected cleanup depths identified in the RAP based on the prior sampling efforts include:
  - Newlove Former Dump Area D-2 (25')
  - Careaga Well #61 (7')
  - Careaga Well #63 (22')
  - Careaga Well #78 (22')
  - Careaga Test Header TH1 (12').

  Comments received from Santa Barbara County EHS/SMU indicate the RAP was not approved as proposed and requested further evaluation of environmental features and a sampling plan. EHS indicated that a separate closure report will be required for each feature identified which requires remediation, and that a Soil Management Plan will be required.

- Based on research and historical records, excavation of sumps at 11 well locations on the Careaga portion of the Subject Property during the time period of 1902-1930 by Shell Oil Company was documented. The list of wells with known sump excavations is summarized in Table 1. The amounts of fluids previously discharged into each historic sump and whether the sumps were closed with or without cleanup was unknown.
- Based on oil and gas pipeline maps in the Careaga Lease SPCC Plan and estimates by LDC's engineers, it's estimated there are approximately 55,500 linear feet of pipeline. The lines are generally located alongside the lease roads.

- Based on the results of the site inspection (further discussed in Section 7), no excessive crude oil spills or other chemical spills to soil were noted with minor staining and oil observed at the well heads examined. Crude oil and material spills are generally handled by moving the impacted material to the permitted offsite WPMF, but the beneficial re-use areas for oil-impacted soils include well pads located on the Subject Property.
- Multiple Underground Injection Control (UIC) projects associated with the Orcutt Oilfield are located offsite of the Subject Property; however, several of the pilot steam wells associated with the Cyclic Steam Project for Santa Maria Energy are located immediately adjacent to Bicknell Road in the vicinity of the Careaga gas plant.
- Soil vapor sampling conducted by Waterstone in 2024 detected elevated concentrations of benzene and ethylbenzene in samples located at Careaga wells #68 and 78, as well at the test header on the Careaga lease, which is indicative of a vapor encroachment condition (VEC) in select areas of the Subject Property.

On June 25, 2025, Waterstone performed an inspection of the Subject Property and vicinity. During the site visit, Waterstone staff observed the following former features and current operational equipment in good condition:

- 31 oil/gas wells
    - According to well counts there are 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are located on Bicknell Road or Newlove Park area and considered to be part of access, basin or park improvements.
- Aboveground Storage Tanks (Gitte-Ten Tank Battery - out-of-service)
- Pipelines
- Separators/Test Headers
- Out-of-Service Equipment and Storage Areas.

No excessive crude oil spills or other chemical spills to soil were noted and no stained soil or oil were observed at the well heads examined.

The Subject Property is located in the Orcutt Hill area of Santa Barbara County which is primarily used for oil production, cattle grazing, vineyards and ranch-style residences (See Figures 1 and 2). At the time of the Subject Property inspection, the properties adjacent to the Subject Property were observed as follows (see Figures 2 and 5A):

North: Undeveloped, oilfield operations associated with the Dome Lease, and agricultural land are north of the Subject Property and is developed similarly to the Subject Property. Farther north is the City of Orcutt.

East: The 101 Highway and undeveloped land are immediately east of the Subject Property. Undeveloped, oilfield, and agricultural land are farther east of the Subject Property.

South: Oilfield operations associated with the Careaga Mineral Fee is south of the Subject Property. Undeveloped and agricultural land continues south of the Subject Property.

West: Oilfield operations associated with the western portion of the Careaga Lease and the Harris (Graciosa) Lease are west of the Subject Property and are developed similarly to the Subject Property. Undeveloped and agricultural land continues west of the Subject Property.

8.2 Findings and Conclusions

Waterstone has performed a Phase I Environmental Site Assessment of the Subject Property in general conformance with the scope and limitations of ASTM Practice E 1527-21. Potential on- and off-Subject Property issues identified during this investigation are summarized as the following:

8.2.1 Potential Subject Property Issues

Based on the available environmental assessment data for the Subject Property, Recognized Environmental Conditions (RECs) **were** identified for the Subject Property:

- The Subject Property has been utilized for oil and gas production, storage, processing, and shipping since the early 1900s. Features of environmental concern include existing and former facilities such as oil/gas/injection wells, tank batteries and aboveground storage tanks, chemical and equipment storage areas, condensate traps, sumps, pipelines, test headers, separators, stained soil noted in and around various facilities/operational areas, dumpsites, transformer sites, oil seep/stained areas, oily soils used for road/berm construction, and leaks/spills/pits involving crude oil/produced water/drilling mud. Oilfield features of potential environmental concern are summarized in Table 1.
- Past environmental investigations have reported elevated concentrations of TPH in soil and VOCs in soil vapor in and near the various site feature types listed above. These impacts are considered to be RECs.

The following should also be noted:

- Asbestos may be present in pipeline materials or pipeline wrap.
- Lead-based paint may be present in painted surfaces.

8.2.2 Potential Off-Subject Property Issues

Recognized Environmental Conditions (RECs) **were not** identified in connection with off-Subject Property properties; however, the following should be noted:

- There are adjoining and surrounding properties which also operate as oilfields and to the extent they are upgradient of the Subject Property, releases from these facilities

may impact the Subject Property. As an example, there are pipeline corridors that run alongside portions of Bicknell Road.

8.3 Recommendations

If the current oilfield production operations continue, there is no need for further investigation or remediation of these areas. Operations should be performed in accordance with the rules, requirements, and regulations of appropriate agencies. However, if and when there is a change in the site use, or oilfield operations cease, these areas of concern should be targeted for additional sampling as part of grading and improvement plans. Areas found to have elevated concentrations of chemicals of concern should be delineated and identified for future remediation in accordance with workplans approved by the appropriate regulatory agency.

Section 9.0
References

Published References

Environmental Data Resources, Inc., June 24, 2025, EDR Area/Corridor Report

Environmental Data Resources, Inc., June 25, 2025, Historical Topographic Map Report

Environmental Data Resources, Inc., February 18, 2022, Certified Sanborn Map Report

Environmental Data Resources, Inc., June 25, 2025, City Directory Report

Environmental Data Resources, Inc., March 14, 2024 and June 26, 2025, Aerial Photographs

Harding ESE, 2001. *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.* October 22.

URS, 2015. *Re: Response to DOGGR Regarding Water Wells on Careaga Lease*. Letter to State of California Department of Conservations, Division of Oil, Gas, and Geothermal Resources. August 7.

Waterstone, 2004. *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.* September 6.

Waterstone, 2007. *Summary of Site Characterization Activities for Breitburn Energy's Newlove and Careaga Leases at the Orcutt Oil Field, Orcutt, CA.* October 5.

Waterstone, 2022. *Phase I Environmental Assessment Report, Careaga Lease, Santa Barbara County, California.* April 1.

Waterstone, 2024. *Phase II Investigation and Remedial Action Plan, Solomon Hills, Santa Barbara County, California.* June 27.

Other Resources

Regional Water Quality Control Board, Central Region

California Department of Toxic Substances Control (DTSC), Clovis, Berkeley, Chatsworth Offices

Santa Barbara County Environmental Health Services

Santa Barbara County Building Department

Santa Barbara County Air Pollution Control District

California Department of Conservation Geologic Energy Management Division

United Stated Environmental Protection Agency – Radon Research Program

California Geological Survey

Tables

Table 1

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Oil Wells	65	NL-#20-16Z	
		NL-#32-21Z	
		NL-#44	
		NL-#45	
		NL-#48	
		NL-#49	
		NL-#50	
		NL-#89	
		C-#2A	
		C-#3	Gas leak identified and repaired in 2010
		C-#4	0.5 bbls of oil spilled on paved road in 1999
		C-#4A	
		C-#5	
		C-#6	
		C-#6	
		C-#8	
		C-#9	
		C-#11	
		C-#15	
		C-#17	
		C-#36	
		C-#37A	
		C-#45	5-10 bbls of oil misted over 100' by 150' area in 1997, 0.5 gal crude oil released to ground around wellhead in 2006
		C-#52	
		C-#57	
		C-#60	History of unpermitted wastewater injections
		C-#61	Petroleum impacts identified during 2006 sample event
		C-#63	Petroleum impacts identified during 2006 and 2024 sample events
		C-#64	
		C-#66	
		C-#68	
		C-#74	
		C-#75	3 gal crude oil released to ground around wellhead in 2006
		C-#76	
		C-#77	
		C-#78	Petroleum impacts identified during 2006 and 2024 sample events
		C-#84	
		C-#88	
		C-#91	
		C-#102	
		C-#126	
		C-#136	
		C-#146	
		C-#146D	
		C-#6742X	
		NL-#60	
		NL-#79	
		NL-#101	
		NL-#46	
		NL-#47	
		NL-#98	
		C-#B-5	Releases reported in 2006 included 2 gal crude oil, 6 bbls produced water into well cellar, 10 gal produced water into well cellar and surrounding area, 50 bbls produced water
		C-#37	20 bbls of oil released to soil and downslope on adjacent drainage/wash in 2007. Impacted soil removed and disposed of offsite.
		C-#46	
		C-#47A	
		C-#62	
		C-#65	
		C-#69	
		C-#70	
		C-#7330X	
		NL-#22	Offsite Newlove Park
		C-#2	Bicknell Road
		C-#1516	
		C-#1615	
		C-#1714	

Table 1

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Sumps	13	Well N-#50	Near well 50 and Newlove south boundary
		C-#4	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#5	Ref: 1991 Phase I
		C-#6	Ref: 2015 letter to RWQCB
		C-#11	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#52	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#57	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#62	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#64	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#68	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#74	Ref: 2015 letter to RWQCB
		C-#77	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#88	Ref: 2015 letter to RWQCB, 1991 Phase I
	52	Other Well Sites	Possible Sumps based on past practice as documented in SME letter
Aboveground Storage Tanks	4	Former Santa Fe Energy Tank Battery	East of Well C-#68
		Former AST	North of Well C-#75
		Former Water Tanks	West of Well C-#146D
		Gitte-Ten, Section 32 (37A) Tank Battery	At Well C-#37A Out-of-Service
	at Well Sites	Former Test Tanks	
Piping/Test Header	4	Former Test Header	NW of Well C-#6
		Test Header/Piping Corridor	West of Well C-#74. Petroleum impacts identified during 2024 sampling event. (TH1)
		Test Site	East of Well C-#75
		Pipe Corridor	South of Well C-#146D
	55,500 lf	Piping	At well pads and along lease roads
Separators	1	Separators	West of Well C-#146.
Former Condensate Trap/ Blow-down			If identified. None currently known.
Chemical Usage/Storage	3	Well C-#6	Corrosion/scale inhibitors
		Well N-#48	
		Well N-#46	
Equipment Storage Areas	3	Electrical/Transformer Storage	at Well C-#6742X
		SW of Well C-#146	
		Well C-#102	
Jack Line	1		Between Wells C-#6 and C-#11
Former Dump Sites	3	Dump Site	North of Well C-#77
		Auto Dump	Newlove Hilltop N-#60
		Dump Site	Newlove Canyon Bottom - TPH impacts identified during 2006 Sampling Event (D-2)
Asphalt/Oiled Lease Roads	86,700 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	65 Well Sites		Near Well Sites

Figures

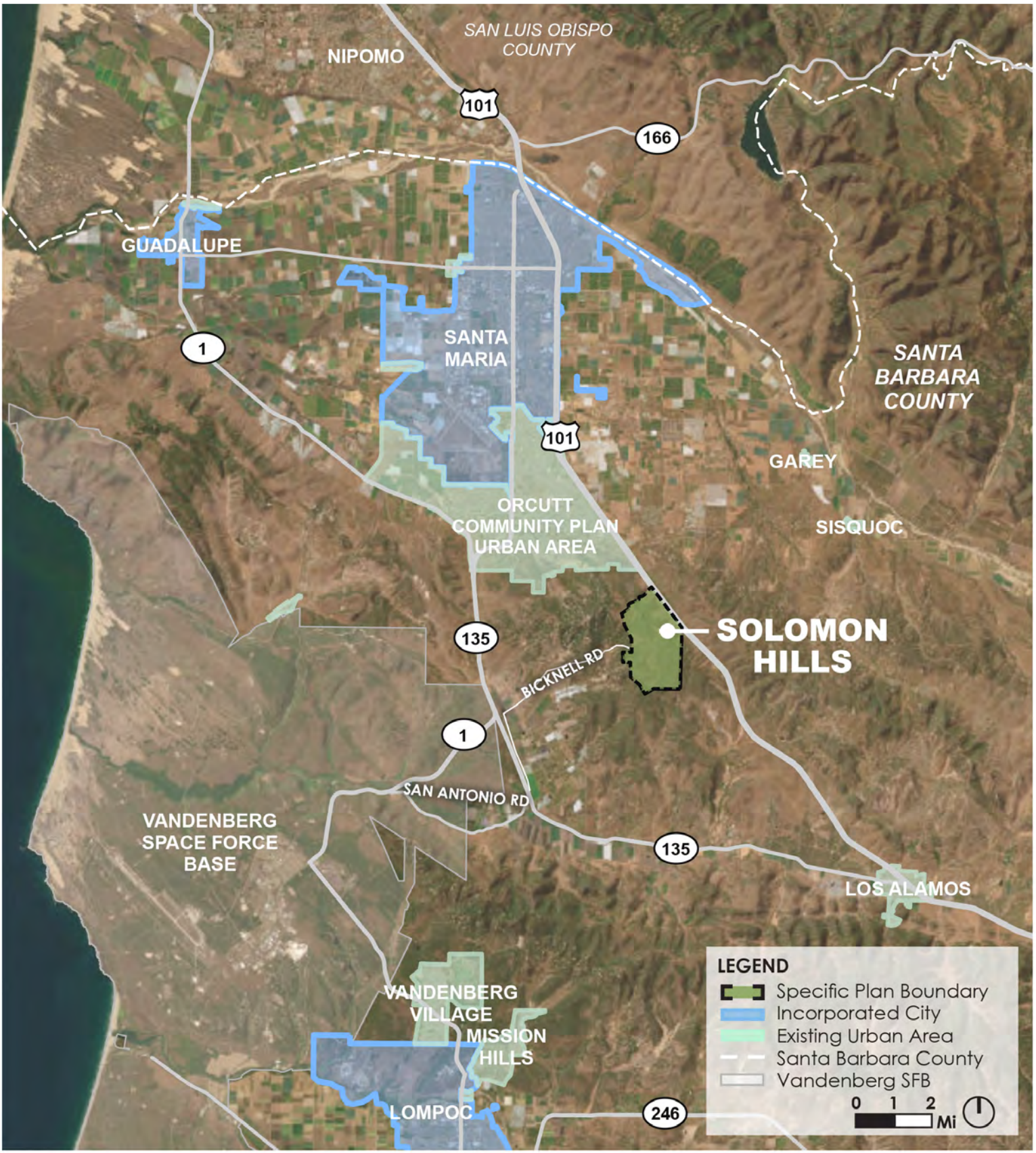


Figure 1
Subject Property Location Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: HLF	Project No: 25-126
Approved By: MS	Date: 8/12/25

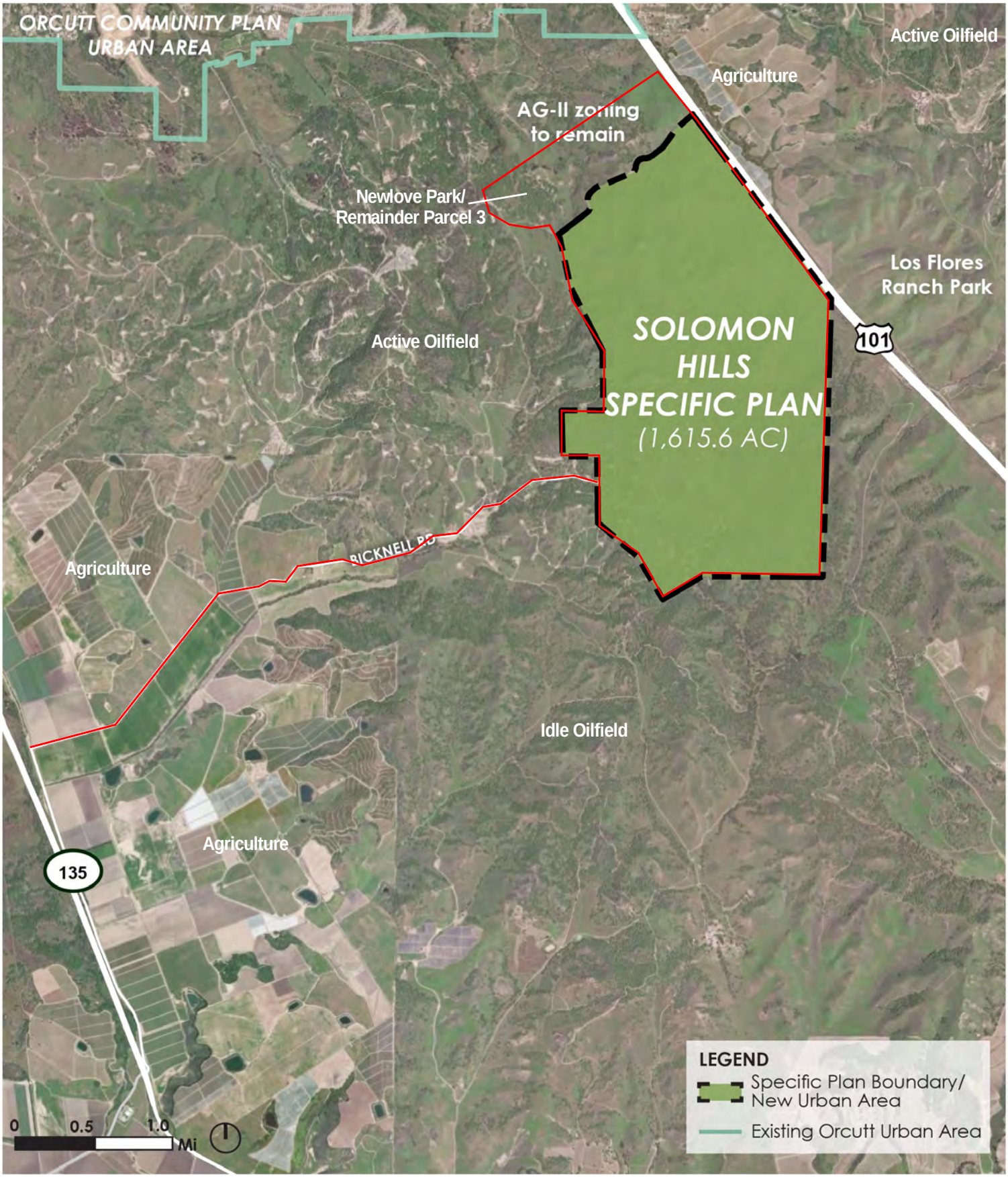


Figure 2
Subject Property Vicinity Map

Solomon Hills
Santa Barbara County, CA

Legend

Approximate Subject Property Boundary, Incl. Bicknell Road

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: HLF	Project No: 25-126
Approved By: MS	Date: 8/12/25

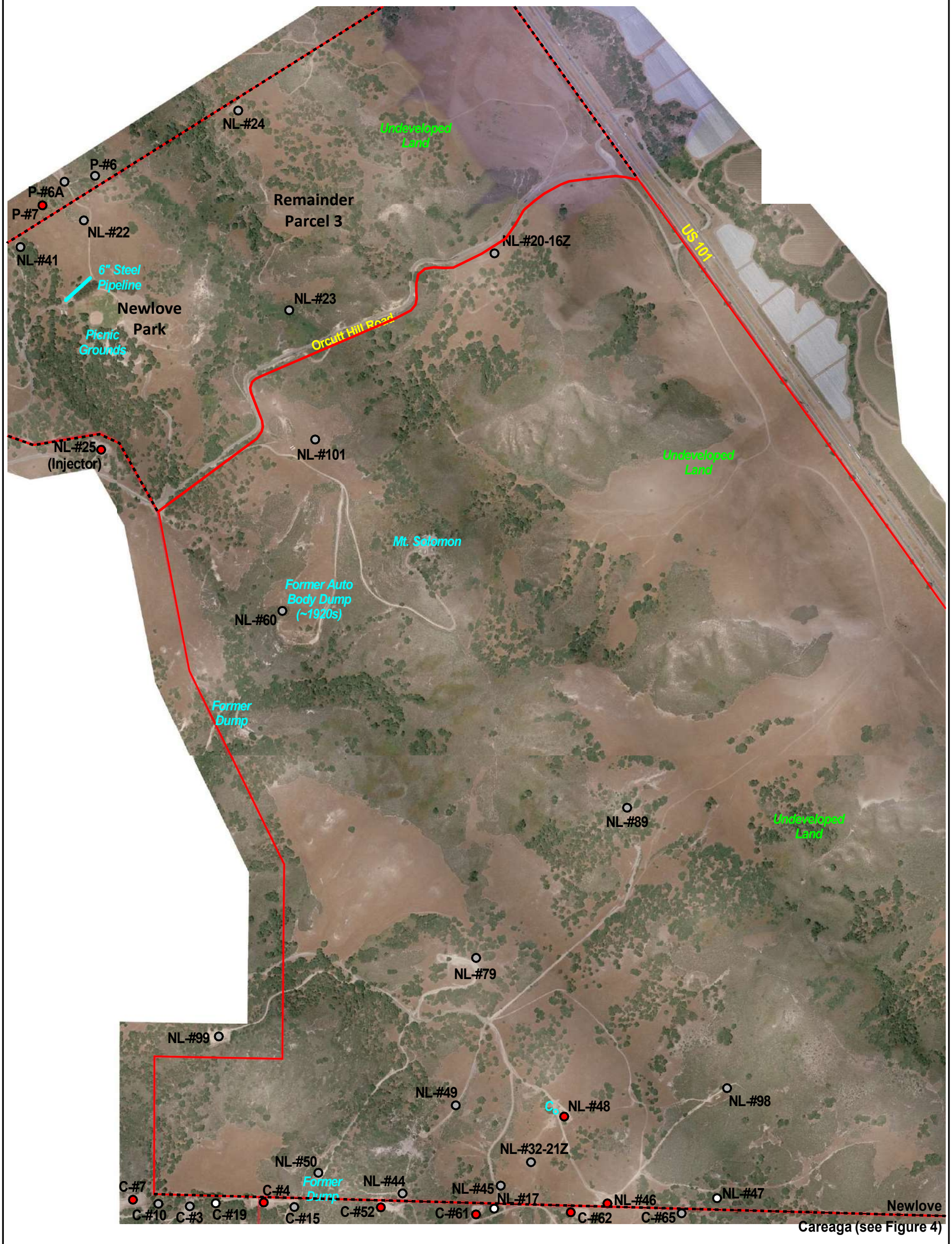


Figure 3
Subject Property Detail Map - North (Newlove Area)

Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- C - Chemical Usage/Poly Drum
- 6" Steel Pipeline — Site Feature

NORTH

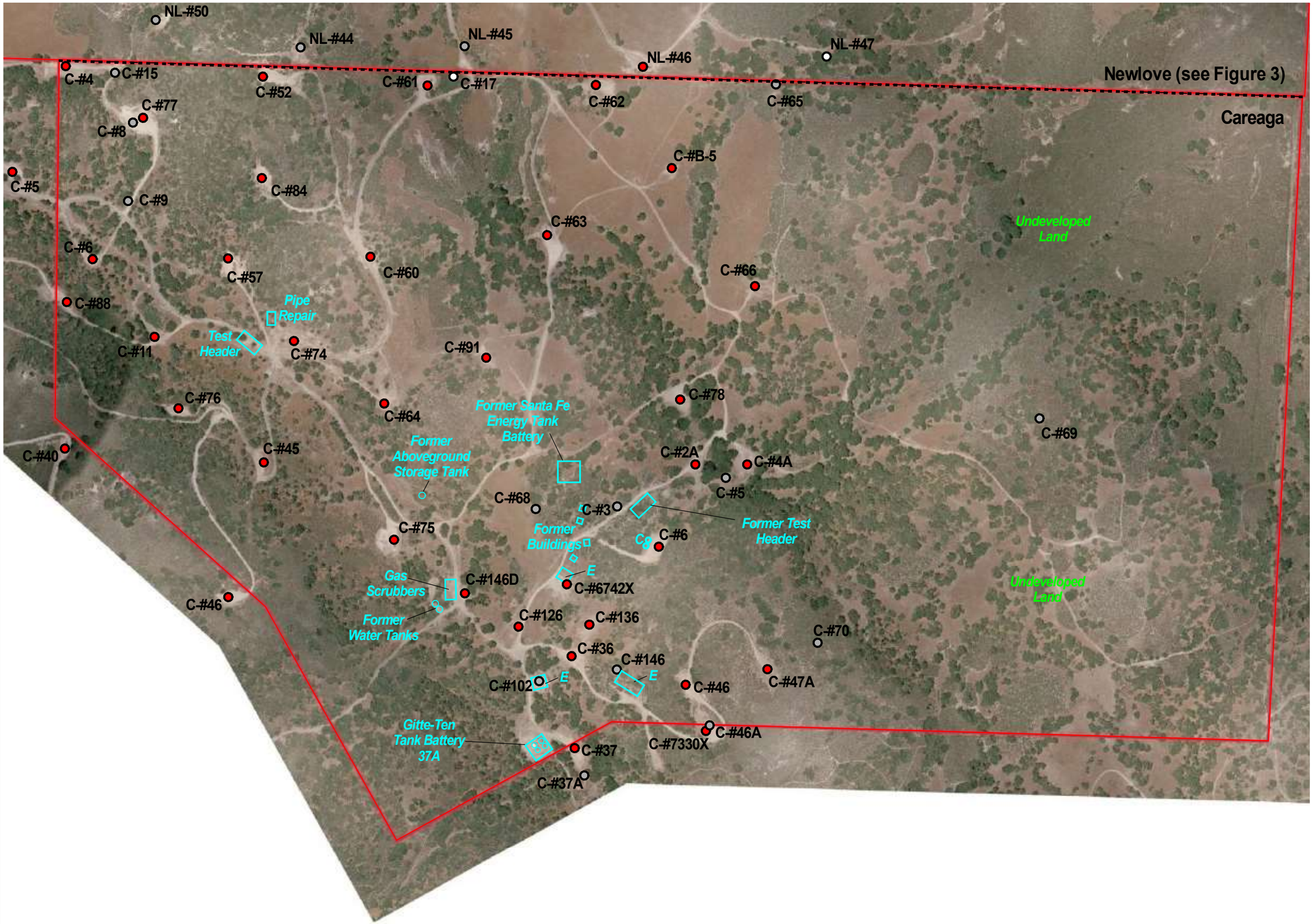
Approximate Scale
0' 400' 800'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/13/25

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

Figure 4
Subject Property Detail Map - South (Careaga Area)



Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Pipe Repair — Site Feature

E - Equipment Storage Area
C - Chemical Usage/Poly Drum

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

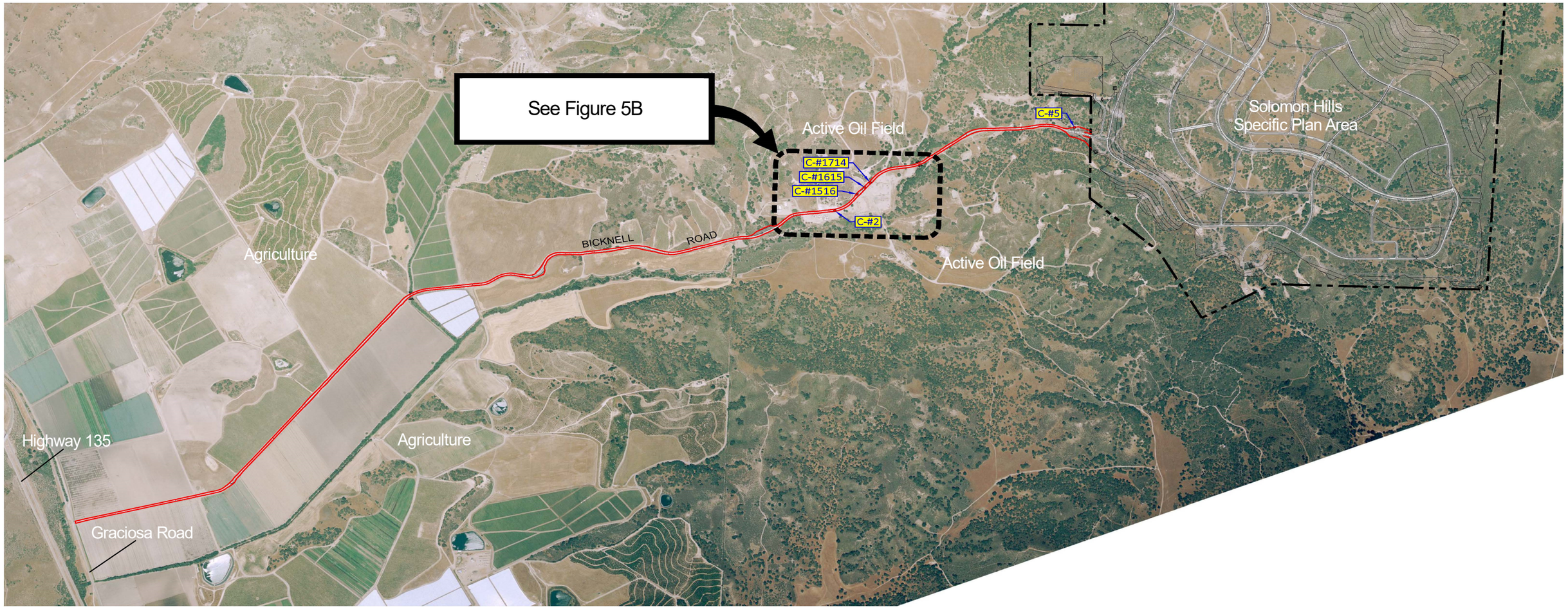
NORTH

Approximate Scale

0' 250' 500'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/13/25



WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 08/06/25

Legend

C-#0000 – WELL LOCATION (WITHIN BICKNELL ROAD PROPOSED LIMITS OF GRADING)

– PROPOSED LIMITS OF GRADING (BICKNELL ROAD)

– SPECIFIC PLAN AREA BOUNDARY LINE

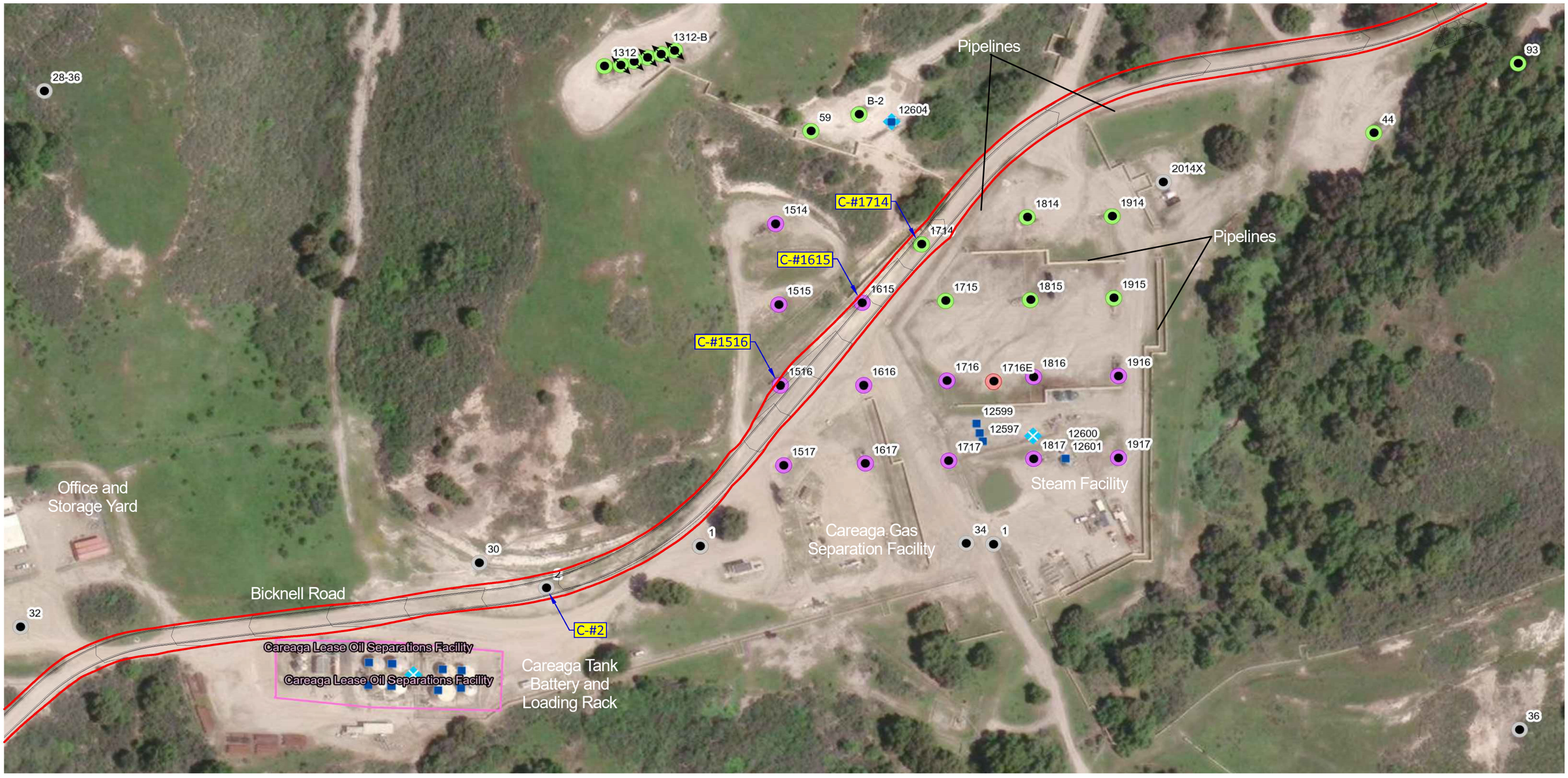
Reference: Land Development Consultants (LDC). Well Map - Bicknell Road, Solomon Hills

NORTH

Approximate Scale

0 750' 1,500'

Figure 5A
Subject Property Detail Map - Bicknell Road



NO SCALE

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 08/06/25

Legend

C-#0000 – WELL LOCATION (WITHIN BICKNELL ROAD PROPOSED LIMITS OF GRADING)

– PROPOSED LIMITS OF GRADING (BICKNELL ROAD)

- Active Oil and Gas Well
- Idle Oil and Gas Well
- Plugged Oil and Gas Well
- Canceled Oil and Gas Well

Reference: Land Development Consultants (LDC). Well Map - Bicknell Road, Solomon Hills

Figure 5B
Subject Property Detail Map - Bicknell Road Detail

Appendix A

Environmental Professional Resume

Mark Shifflett

Managing Principal Environmental Scientist

Waterstone Environmental, Inc.

Mr. Shifflett is a Principal Environmental Scientist for Waterstone Environmental. He has over 27 years of experience in the environmental field, primarily in due diligence, site assessment, remediation, property redevelopment, and litigation support. Mr. Shifflett has extensive project experience in Phase I audits, Phase II soil and groundwater investigations, site remediation, regulatory agency negotiation for site closure, and estimation of remediation costs. Mr. Shifflett's experience includes soil and groundwater assessment of large oilfield properties over 1,000 acres in size with offsite migration of contaminants, design, and implementation of site remediation, including risk-based site closure. At Waterstone, Mr. Shifflett is responsible for the management of projects such as remedial investigation and site closure of soil and groundwater contaminants associated with industrial manufacturing sites, oilfields, dry cleaners, and various commercial properties, including those with underground storage tanks, and a variety of other sites where hazardous materials were known to be a part of historical operations. Mr. Shifflett has managed many projects from the investigation through the remediation phase and received "No Further Action" determinations from various regulatory agencies in preparation for redevelopment.

Education

- B.A., Environmental Science, University of California, Santa Barbara

Capabilities

- Litigation Support
- Due Diligence
- Phase I Environmental Assessments
- Phase II Soil and Groundwater Investigations
- Remediation Cost Estimates
- Remedial Planning
- Redevelopment
- Soil Remediation
- Groundwater Remediation
- Site Closure
- Risk-Based Closures
- Site Closure
- Feasibility Studies
- Soil Vapor Studies

Key Projects and Experience

Site Remediation and Facility Closure

- Project Manager for soil remediation at a 120-acre former petroleum research and development facility and former oilfield property in Brea, California under the oversight of the Orange County Health Care Agency and Santa Ana Region of the RWQCB. Soil remediation included areas of crude oil within a former oilfield sump (100,000 cubic yards), arsenic (2,500 cubic yards non-hazardous/500 tons of hazardous), PCBs (6 tons)

and diesel fuel (10,000 cubic yards). Soil was either transported offsite for disposal or, if concentrations allowed, was placed in deep fill areas greater than 10 feet below proposed final grade. A 'No Further Action' letter was received from the regulator which fulfilled the City of Brea's permitting requirements to proceed with development. In addition, over 300,000 cubic yards of import soil were required to meet site grading design requirements. Mr. Shifflett supervised and performed the evaluation, testing, and monitoring of import soil to ensure it was free of chemical contaminants and met all project specifications.

- Project Manager for the remediation of a 70-acre oilfield property proposed for residential development in the Dominguez Hills Oilfield in Carson, California. Site remediation was performed in accordance with a remedial action plan and waste discharge requirements (WDR) permit issued by the California Regional Water Quality Control Board (RWQCB), Los Angeles Region. Over 300,000 cubic yards of impacted soil were successfully treated and re-used at the site. Areas of hazardous soil were disposed of offsite, including mercury and asbestos waste. Several adjacent residential parcels were remediated that had been impacted by historical oilfield activities. Soil vapor extraction was performed in selected areas to treat soils at depth that had elevated levels of volatile compounds. Prepared regular progress and closure reports. Closure was received from the RWQCB on the entire property.

- Project Manager for the oversight of field testing and soil treatment at the Alameda Corridor Henry Ford Avenue Grade Separation and Long Beach Lead Bridge Projects in Wilmington, California. Prepared a remedial action plan and obtained a general waste discharge permit from the Los Angeles RWQCB for onsite treatment of crude oil-contaminated soil. Soil excavated during construction was profiled to determine if it required treatment, offsite disposal, or could be re-used immediately as onsite fill material. Regular monitoring was performed on soil within the treatment areas as well as quarterly groundwater monitoring in accordance with the WDR. Workplans, progress reports and a closure report were prepared for submittal to the RWQCB.

- Project Manager for the investigation, monitoring and remediation of numerous retail gasoline service station UST sites throughout southern California. Supervised soil and groundwater investigations, vapor extraction/aquifer testing, remediation work plans, agency negotiation, permitting, remediation system design, installation, operation, maintenance, and compliance. Performed design and supervised installation of SVE and groundwater extraction/treatment systems. Supervised system operation and maintenance, and prepared remedial status reports for submittal to the regulator. Agency closures were obtained for numerous sites.

- Project Manager for the investigation, remedial action plan preparation and remediation of PCB-impacted soil at a former boiler area at an oilfield property in Brea, California. Approximately 1,500 cubic yards of impacted soil were excavated and disposed of offsite. In addition, piping with asbestos wrap was encountered and abated in accordance with requirements of South Coast AQMD. Confirmation sampling was performed under

the oversight of Orange County Health Care Agency. To reduce disposal costs, the soil was carefully segregated and profiled into three different waste streams based on its PCB concentration.

- Project Manager for site assessment and remediation at a former circuit board laminating facility in Anaheim, California for site closure under a Corrective Action Consent Agreement (CACA) by Department of Toxic Substances Control (DTSC). The facility managed hazardous waste under permit-by-rule. Hazardous waste constituents included heavy metals (copper, chromium, cadmium, lead, nickel, and zinc), machine oils, PCBs, and halogenated solvents. Following site characterization of soil and groundwater, soil remediation was performed to mitigate elevated concentrations of copper and PCBs. Approximately 130 tons of PCB-impacted soil were excavated and transported offsite for disposal. Closure was received from DTSC with requirements for a deed restriction for commercial/industrial use of the property.

- Performed oversight of field remediation operations, preparation of workplans, and agency liaison for remediation of a 54-acre oilfield property for residential development in Santa Fe Springs. Investigated former sumps, tank batteries and areas of lead contamination in soil. Included excavation and offsite disposal of over 77,000 tons of petroleum hydrocarbon soil and 12,000 tons of lead (RCRA and non-RCRA hazardous), removal and soil remediation at UST locations, soil vapor survey, methane survey, asbestos abatement, and installation of groundwater monitoring wells. Work was performed under the oversight of the Santa Fe Springs Fire Department CUPA and the Los Angeles RWQCB. Health risk assessment indicated the site was remediated to levels safe for redevelopment as a residential community and was approved by the California Office of Environmental Health Hazard Assessment (OEHHA). A soil vapor survey for vapor intrusion of VOCs and methane were performed, and structures were designed with vapor barriers for mitigation of possible methane.

- Project Manager for the investigation and closure of a dry cleaning facility in Temecula, California to facilitate a pending property transaction. Researched historical site records/maps and performed a video camera inspection of sewer lines in the vicinity of dry cleaners to determine possible point sources of low-level PCE in groundwater. Based on the results of the sewer inspection, soil and groundwater sampling were performed to determine the extent of PCE in soil and groundwater. Prepared report presenting findings and recommendation for closure. A no further action letter was received from the Riverside County Department of Environmental Health.

- Project Manager for the remediation of a 35-acre former oilfield property proposed for residential development in Placentia, California. Site remediation was performed in accordance with a remedial action plan under the oversight of the Orange County Health Care Agency and the RWQCB, Santa Ana Region. Approval was received from both agencies to leave in place select areas of deep soil impact and minor impact to perched groundwater zone by petroleum hydrocarbons. Over 150,000 cubic yards of soil were successfully treated and re-used onsite as fill material.

- Project Manager for the assessment and remediation of a former 5-acre oilfield property in Harbor City under the oversight of the RWQCB, Los Angeles Region. The site contained a compressor plant, three oil wells, and related oilfield equipment. Approximately 6,000 cubic yards of impacted soil were excavated and transported to a separate facility property for treatment under an existing Waste Discharge permit from the RWQCB. Excavations were backfilled with clean or treated soil. Following an expedited closure from the RWQCB, the client sold the property.

- For a small oilfield parcel in Placentia, approximately 1,100 tons of petroleum-impacted soil were transported offsite for disposal. Remediation was performed in accordance with a Remedial Action Plan based on the findings of a Phase II site investigation. Due to access constraints from existing utilities, a small area of impacted soil was left in place to be addressed at a later date. Soil vapor testing found low-levels of chlorinated solvents which were deemed *de minimis* and did not pose a vapor intrusion risk. Conditional closure was received from Orange County Health Care Agency pending removal of the inaccessible soils.

Phase II Site Investigations and Feasibility Studies

- Project Manager for Phase II Site Characterization of two adjoining former industrial facilities under the oversight of the Los Angeles RWQCB. Following due diligence, the properties were purchased, and the buyer was responsible for completing the environmental evaluation and obtaining agency closure of the sites. The facilities were former manufacturers of furniture and electrical components. The furniture manufacturer formerly housed metal plating operations, a paint line, sumps, clarifiers, and underground storage tanks. The facility had a history of violations for dumping of plating waste along an adjoining rail spur. Phase II sampling was performed for soil, soil vapor and groundwater, including the installation of groundwater monitoring wells. Site closure has been received from the RWQCB for one of the two sites. At the second site, soil investigation activities have been completed, but multi-depth groundwater sampling and monitoring for concentrations of chlorinated solvents is ongoing. A remedial action plan proposed monitored natural attenuation to reduce concentrations to acceptable levels.

- Project Manager for soils investigation of a former refinery and steel facility in Santa Fe Springs, California. An extensive soil sampling and analysis program was completed to determine the nature and extent of petroleum hydrocarbons and lead in soil. Soil volume and remediation cost estimates were prepared for use in settlement negotiations between the property owner and former refinery operator.

- Project Manager for a soil and groundwater investigation of dry cleaners in a commercial shopping center in Long Beach, California. Following soil sampling, performed soil vapor extraction test to evaluate feasibility for soil remediation. Several remediation options and associated costs were provided to the client for consideration in property

redevelopment and possible sale. A fate and transport model was prepared to demonstrate that the PCE concentrations in soil did not pose a threat to groundwater.

- Project Manager for a Phase II site investigation and remediation of a foundry property in Southgate, California to assess and mitigate areas of soil impact by concentrations of lead and cutting oil. EPA Leadspread Model was used by a toxicologist to arrive at lead cleanup levels for both industrial and residential land use scenarios. Several areas of lead-impacted soil were removed and disposed of offsite. Remediation cost calculations were prepared for future remediation for use in settlement discussions to arrive at an adjusted property value following condemnation by the local school district.

- Project Manager for Phase I and II site assessments of active oilfield properties in Brea, California proposed for future residential development. Supervised field activities, prepared estimates of soil volumes and costs for future remediation. Participated in discussions and negotiations regarding remediation costs with potential buyers. Initiated regulatory oversight with Orange County Health Care Agency Environmental Health to establish cleanup levels.

- Performed Phase I and Phase II Site Assessments of 100-acre oilfield property within the Port of Long Beach, California. Supervised the collection of soil samples used to determine if past oilfield use had adversely impacted the property. Based on the results, soil volume calculations were performed, and a cost comparison made for several remedial options. The cost estimates were used by the client for negotiations in a possible property transaction.

Due Diligence

- Due diligence evaluations for national parking lot owner/operator near large airports and metropolitan downtown areas. Typical areas of concern have been automotive repair shops, USTs, and commercial properties with former dry cleaners. Follow-up phase II investigations have been performed on many of the properties to evaluate former and existing AOCs.

- Performed due diligence evaluations on large groups of oilfield properties and offshore platforms for divestiture purposes in Los Angeles, Orange, Ventura, Santa Barbara, and Kern Counties in California as well as properties in Illinois, Michigan, and Texas. Oil production on the properties dated back to the 1920's. Areas of concern identified on the properties included oil/gas wells, underground and aboveground tanks, pipelines, production facilities, and former sumps. Many of the fields employed enhanced recovery techniques. Surrounding property uses included agricultural, industrial, residential, and undeveloped land.

- Performed environmental review and cost liability analysis for acquisition of exploration and production assets on Alaska's North Slope. The assets were to be divested by Arco as required by the US Federal Trade Commission for their merger with BP Amoco.

Conducted file reviews, interviews, and participated in discussions to determine the cost associated with potential environmental liabilities of North Slope assets, including portions of the Trans-Alaska Pipeline System and marine tanker terminal at Valdez.

- Supervised and performed numerous Phase I's for due diligence, lenders, or insurance on a variety of property types including commercial/industrial, manufacturing, agricultural, oilfields, retail, and raw land.

Litigation Support Services

- For a former aerospace manufacturing facility in Redondo Beach, designed a sampling plan to further define the offsite extent of a groundwater plume that had migrated offsite. Coordinated access with offsite property owners and performed offsite drilling and groundwater sampling. Waterstone's initial role was to facilitate the sale of the property and estimate the cost for future assessment/remediation for insurance purposes. The property was redeveloped in the 1990s as a retail shopping center, the responsible party was no longer financially viable, and no environmental work had been performed for over five years. Evaluated the effectiveness of previous remediation efforts including soil vapor extraction and groundwater pump and treat. Sampling of the existing groundwater well network was performed to assess the current conditions. A plan was prepared which recommended a proposed scope of work, estimated schedule, and costs to achieve site closure from the RWQCB. Work continued on behalf of the buyer, which included performing offsite groundwater sampling to further evaluate the extent of the groundwater plumes. A neighboring dry cleaning facility was identified as a likely contributing source of PCE to groundwater in a portion of the site forming a commingled plume together with petroleum hydrocarbons from a neighboring gasoline service station. Recent data and discussions with the RWQCB indicate that treatment of dissolved concentrations of chlorinated solvents in groundwater will be required to achieve site closure. A workplan to perform a pilot study for the *in situ* treatment of groundwater was recently submitted.

- Provided litigation support role on behalf of plaintiff (land owner) for an active oilfield property proposed for residential development. The client filed suit against the oil lease holder/operator to return the property to clean and safe conditions following oil production activities. The case involved sampling at hundreds of areas of concern such as oil wells, sumps, tank batteries, pipelines, and a gas plant. Cost calculations for future remediation and site restoration were prepared. The case was settled before trial and the defendant was required to perform the necessary cleanup.

- For the owner of a retail shopping center in Cerritos, CA that was underlain by a large PCE/TCE groundwater plume indicative of DNAPL concentrations resulting from a release from the municipal sewer. The property formerly housed an automobile repair facility and more recently a retail dry cleaning facility. All historical areas of concern were evaluated to identify potential source areas that including video inspections of the public sewer system adjacent to the property. Assisted in development of GIS model and

3D animation to conclude the release point of PCE/TCE was from the public sewer. Supported preparation and summary of past and estimated future response costs for assessment and remediation of the groundwater plume. The court case resulted in a favorable settlement for the client.

- For the owner of a bulk fuel shipping/distribution terminal in northern California, provided litigation support for defendant against claims from neighboring residents that they were experiencing exposures to benzene as a result of vapor intrusion from contaminated groundwater. Mr. Shifflett evaluated a commingled groundwater plume of petroleum hydrocarbons from the defendant's facility and chlorinated solvents (PCE and TCE) originating from a neighboring facility, assisted in preparation of expert report, and directed field sampling operations. Although PCE and TCE were present in the groundwater beneath the residential neighborhood, additional groundwater sampling showed that benzene was not. A study of historical records revealed an additional potential source in the form of a fuel UST withn a former railroad right-of-way that was unknown to other parties in the litigation. The presence of the UST was confirmed by excavation. The case resulted in a favorable settlement for the defendant.

Presentations

Solutions to Challenging Issues Encountered During Oilfield Remediation Projects (Shifflett), Tenth Annual Air and Waste Management Association Technical Conference, March 2000.

Specialized Training and Certifications

- OSHA 40-HR HAZWOPER Training, 1991 and current 8-HR Refresher.
- 8-HR HAZWOPER Supervisor's Training, 1995.
- Trench Shoring Safety Competent Person Training, 2001.
- University Course, Rancho Santiago College, Soil Mechanics, and Foundations, 1990.
- University Course, UC Irvine, Environmental Aspects of Soil Engineering, and Geology, 1990.

Heather Fields, P.G.

Principal Geologist

Waterstone Environmental, Inc.

Ms. Fields is a licensed Professional Geologist at Waterstone Environmental and has been involved in the environmental industry since joining Waterstone in 2007. Her primary responsibilities include due diligence research and reporting, implementation and management of environmental site assessments, design and management of remediation projects, and litigation support. Ms. Fields has conducted work for numerous commercial and industrial properties both in the private sector and under the oversight of local and federal agencies, with the goal of working towards site closure. The majority of her responsibilities have included preparing and implementing sampling workplans and remediation approaches for soil, soil vapor, indoor air, and groundwater.

Ms. Fields is experienced in pre-field planning of numerous types of investigation activities; including preparing characterization and remediation workplans, preparing project proposals and budgets, procuring permits, working with laboratories performing analytical testing, and coordinating with drilling and construction subcontractors. Ms. Fields has extensive experience involving soil sampling, groundwater monitoring well installation and sampling, soil vapor well installation and sampling, indoor and outdoor air sampling, and oversight of an assortment of crews in relation to hand augering, grading, hollow stem drill rigs, direct push drill rigs, and Cone Penetrometer (CPT) units. In addition to executing the fieldwork, Ms. Fields is experienced in data management and evaluation, soil logging and preparation of geologic soil borings, preparation of figures and cross-sections, report preparation, interpretation of regulatory framework to work towards site closure, and interfacing with environmental agencies.

Education

- B.S. Earth Sciences, Minor in Environmental Studies, California Polytechnic State University, San Luis Obispo, CA, 2006, graduated *summa cum laude*.
- Environmental Management Certificate, University of California-Irvine, Irvine, CA, 2009.

Specialized Training and Certifications

- California Professional Geologist (10321), 2024
- OSHA 40-HR HAZWOPER Training, 2007-Current
- First Aid Training, 2007-Current

Project Capabilities

- Due diligence and ASTM-compliant Phase I Environmental Site Assessments (ESAs)
- Installation and sampling of groundwater monitoring wells and soil vapor wells
- Soil sampling, logging, and electronic boring log preparation
- Indoor air sampling and building surveys
- Soil remediation oversight and sampling, including Rule 1166 monitoring

- Installation and O&M of remediation extraction systems
- Hazardous waste management and disposal profiling
- Preparation of Phase I, Phase II, Remedial Action Workplan, and Remedial Action Completion Reports
- Regulatory research and guidance
- Computer-aided drafting and modeling programs
- Data management and processing
- Project management and budget tracking
- Litigation support

Key Projects and Experience

Environmental Site Assessments

- Ms. Fields has conducted numerous diligence investigations and E1527-21 ASTM-compliant Phase I Environmental Site Assessments at residential, commercial, industrial, and oil field properties throughout California and other states for a variety of clients; including banks, land development companies, local government, and local school districts. Each of these projects required research of the potential environmental concerns at the property and adjacent properties, conducting file reviews at local agencies, conducting site visits and performing interviews, review of historical aerial photographs and maps, evaluation of previous environmental reports, and preparation of a report that identifies and summarizes the potential for environmental impact to the property, as well as provide recommendations for further evaluation.
- Ms. Fields participated in the identification and research for a historical database of potential lead emitting industries located within a defined search radius of a closed battery recycling facility. Ms. Fields conducted extensive historical research at multiple properties to identify the regional contribution to aerially-deposited lead to provide multiple lines of evidence for the widespread responsibility for the presence of lead identified in nearby residential areas.
- Ms. Fields directed characterization sampling and preparation of a PEA-equivalent report under the oversight of the Department of Toxic Substances Control (DTSC) for a new development project in Rialto, California with historic underground storage tanks and vehicle repair activities. Previous sampling conducted by a prior consultant at the property had identified PCE in soil vapor which could not be reproduced in multiple subsequent sampling episodes, so working with DTSC, Ms. Fields successfully removed PCE as a primary contaminant of concern for the property. A Human Health Screening Evaluation was prepared for the site to evaluate petroleum-hydrocarbons identified at depth from a historic tank release and the site was granted No Further Action with a Land Use Covenant for future commercial usage.

Site Characterization and Fieldwork Capabilities

- Ms. Fields has designed, conducted, and managed a variety of field work activities for Phase II Environmental Site Assessments for evaluating known or potential sources of contamination on commercial, industrial, residential, and school properties throughout

Southern California. Phase II projects have included sampling and evaluation of results for soil, soil vapor, indoor air, and groundwater impacts. Chemicals of concern encountered on sites include, but are not limited to, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals, and pesticides. During each sampling activity, Ms. Fields was responsible for ensuring proper collection, preservation, and handling of samples; classification and logging of soil; and making decisions for additional sampling at each field location. Additionally, Ms. Fields was responsible for assuring proper utility clearance was conducted prior to all subsurface investigations and for monitoring the health and safety for herself and subcontractors during all sampling events.

- Ms. Fields has performed oversight activities in association with groundwater sampling and groundwater remediation for both discrete and quarterly/semi-annual groundwater monitoring events. Ms. Fields has supervised single and multi-nested groundwater well installation and well development activities, directed the collection of grab groundwater samples using Hydropunch samplers, and overseen and collected groundwater samples from wells using both standard and low-flow purging techniques. Ms. Fields has been involved with groundwater remediation strategies, including operation of ozone injection, pump and treat, air sparge, and dual phase extraction remediation systems. Groundwater remediation O&M responsibilities overseen by Ms. Fields include collection of samples, measurement of groundwater conditions, performance of system maintenance, and collaboration with subcontractors to optimize the remediation system performance.
- Ms. Fields has successfully exhibited the ability to supervise multiple subcontractors and project team members, uphold a good rapport with tenants and the local community, and confidently interact with lead agencies while performing project tasks to completion in a timely manner. Her professional relationship and open line of communication with facility owners and operators has helped increase and maintain the trust and confidence of clients.

Vapor Intrusion Evaluation

- Ms. Fields has extensive experience in performing soil vapor surveys in accordance with the DTSC/LARWQCB *Advisory for Active Soil Gas Investigations* (July 2015) for soil vapor well installation and sampling. She has completed numerous soil vapor surveys under these guidelines for both VOCs and methane, and is experienced in the evaluation of soil vapor data relative to various regulatory screening levels and attenuation factors.
- Ms. Fields is well versed in performing indoor air sampling in accordance with the DTSC *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (October 2011), as well as the *Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion* published by DTSC/RWQCB in February 2023. She has conducted numerous indoor air sampling events and building surveys under these guidelines both for due diligence and under the oversight of local agencies. Ms. Fields has assisted clients in identifying the source for chemicals identified in indoor air as well as evaluate and implement options for mitigation.

- Ms. Fields aided in the identification of the source of vapor intrusion concerns in an office building resulting from groundwater treatment activities at an offsite property which resulted in a preferential pathway allowing vapors with elevated BTEX compounds to affect indoor air almost 200 feet away from the treatment area. Ms. Fields worked with the offsite property's consultant to stop the spread of vapors onto the Subject Property and to determine an approach to resuming their remediation efforts with no effects on offsite properties.

Remediation Projects

- Ms. Fields has prepared removal action workplans, long term budgets for implementation of remediation activities, and removal action completion reports for remedial soil excavations and *in-situ* soil vapor and groundwater remediation sites. These workplans have been designed and conducted under agency oversight to remediate concentrations in soil, soil vapor, and groundwater to either background concentrations or concentrations that are protective of human health.
- Ms. Fields has managed and performed sampling for both small and large scale soil remediation projects for refineries, oilfields, and industrial properties. Remedial activities managed by Ms. Fields have included the oversight of multiple crews conducting excavation using backhoes, excavators, scrapers, large-diameter auger equipment, shoring, and daily slurry backfilling. Ms. Fields has directed excavation crews to separate and stockpile materials based on hazardous characteristics, collected confirmation samples, overseen the placement and compaction of backfill material, maintained a daily photo log and sketches of continually changing site conditions, and maintained open channels of communication with clients, subcontractors, laboratory personnel, and oversight agencies. Throughout each project, she maintained updated data tables of all analytical results, as well as documentation of soil quantities being disposed of and transported into the site. Ms. Fields has additionally overseen large scale soil grading projects for the purpose of identifying and remediating environmental concerns that were previously unidentified and addressing them under a Soils Management Plan.
- Ms. Fields has been directly involved with air monitoring of VOCs under the Air Quality Management District (AQMD) Rule 1166 at multiple excavation sites in Southern California. By keeping organized and detailed notes, she has been prepared to present all necessary field documentation to agency representatives that visit the field site. She has written and submitted status reports and the necessary permit amendments as project situations change. Ms. Fields has also trained onsite subcontractors to thoroughly and accurately conduct air monitoring under their own Rule 1166 permits.
- Ms. Fields has been involved with the design and installation of both pilot test and full-scale *in-situ* remediation systems, including soil vapor extraction (SVE), air sparging, and pump and treat systems to address properties with vapor intrusion and impacted groundwater concerns. Ms. Fields has conducted and managed routine operation and maintenance (O&M), data management and evaluation, progress reports, and agency communications regarding remediation extraction systems.

- Ms. Fields has prepared comprehensive Soils Management Plans (SMP) for multiple sites, both independently and under agency oversight. Tasks associated with implementation of SMPs has included conducting training with onsite personnel, remote evaluation of features identified during grading activities, site visits to evaluate potential areas of concern and collect samples, implementation of construction response activities and waste disposal, and preparation of construction response reports.
- Ms. Fields oversaw and directed the sampling and remediation at two former oilfield properties in Placentia, California with historic oil wells, truck loading areas, and tank farms. Approximately 800 tons from one site and approximately 1,100 tons from the second site of TPH-impacted soil was transported offsite for disposal. Confirmation sampling and soil vapor sampling was performed under the oversight of Orange County Health Care Agency. The first property received a No Further Action Certification and was redeveloped with residential housing. Due to access constraints from existing utilities, a small area of impacted soil was left in place to be addressed at a later date at the second property; however, conditional closure was obtained to allow for redevelopment of the site for residential use.

Industrial Compliance

- Ms. Fields was in charge of conducting extensive characterization sampling and evaluation of PCBs present within the concrete walls and floor of an active steel manufacturing facility. Working closely with the EPA and the client, Ms. Fields helped facilitate a risk-based TSCA approval in accordance with Title 40 of the Code of Federal Regulations (40 CFR) Section 761.61(c) for encapsulation of affected building materials which allowed the facility to continue manufacturing processes without endangering worker safety. Ms. Fields designed and coordinated sampling strategies which are conducted as part of an annual monitoring program under EPA oversight to ensure the continued effectiveness of the remediation strategy.

Litigation Support

- Ms. Fields has worked on multiple expert witness testimony presentations for litigation cases nationwide. She has been responsible for preparation of exhibits for trial and expert reports, database management and analysis, document management and review, cost allocation strategies, expert report preparation, and the production of presentation materials for expert witness testimony. Ms. Fields has been involved in the implementation of innovative modeling techniques used for determining cost allocation over time for historic releases to be used in assessing future site remediation efforts by different historical contributors and during varying insurance policy periods. She has been involved in litigation projects based in California and Federal courts for properties including oil refineries, nuclear facilities, and large parcels slated for development.
- Ms. Fields has developed innovative allocation costing approaches for proposing settlement costs for multiple litigation projects. The allocation cost spreadsheets were designed to be adjusted in real time for mediation and settlement discussions to provide maximum flexibility for legal counsel and judges to address cost allocation options.

Appendix B

User Questionnaire

Waterstone Environmental, Inc.

Phase I Environmental Site Assessment (ESA)

ASTM E 1527-21 User Questionnaire

Phase I ESA Site Address Solomon Hills, Orcutt Oil Field, Santa Barbara, CA

Signature of Representative: _____

Name of Representative: Philip Brown **Company: Solstra Communities Ca, LLC**

(Please print) (Please print)

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (the *"Brownfields Amendments"),* the *user* must provide the following information (if available) to the *environmental professional.* Failure to provide this information could result in a determination that *"all appropriate inquiry"* is not complete.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law? No, we are not aware of any Environmental Claenup Liens

(2.) Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any 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 in a registry under federal, tribal, state or local law?

No, we are not aware of any AUL's.

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes, manage active oil and cattle grazing operations are very similar to the operations on the property and are adjoining the property.

Waterstone Environmental, Inc.

Phase I Environmental Site Assessment (ESA)

ASTM E 1527-21 User Questionnaire

Phase I ESA Site Address Solomon Hills, Orcutt Oil Field, Santa Barbara, CA

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property?* If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property?*
The purchase price reasonably reflects the true market value of the property in my opinion.

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30). Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user,*
(a.) Do you know the past uses of the *property?*
Yes, the property has been used primarily for oil and gas operations

(b.) Do you know of specific chemicals that are present or once were present at the *property?*
PCEC believes that the chemicals used on the property are similar to those used by PCEC

(c.) Do you know of spills or other chemical releases that have taken place at the *property?*
No

(d.) Do you know of any environmental cleanups that have taken place at the *property?*
No

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property,* and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the *user* of this *ESA,* based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property?*
PCEC are not aware of any obvious indicators of contamination

Appendix C

Lien Report

ENVIRONMENTAL LIEN AND AUL REPORT TO 1980

Order Number:
79-412818-47

Subject Property:
NOT REPORTED
SANTA BARBARA COUNTY, CA

Effective:
07/01/2025

Completed:
07/08/2025

AFX RESEARCH, LLC

A Quarter-Century of Title Document Research Expertise

999 Monterey St. Suite 380, San Luis Obispo, CA 93401

(877) 848-5337 / www.afxllc.com

Order #: 79-412818-47 | Completed: 07/08/2025 | Effective: 07/01/2025

SOURCES SEARCHED

Source 1:	SANTA BARBARA COUNTY RECORDER'S OFFICE
Source 2:	SANTA BARBARA COUNTY ASSESSOR'S OFFICE
Source 3:	CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Source 4:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Examiner Notes:	PUBLIC RECORDS OF SANTA BARBARA COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1980 TO JULY 1, 2025, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED. **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Current Owner(s):	ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY		
Property Description:	NOT REPORTED		
County, State:	SANTA BARBARA COUNTY, CA		
APN/Parcel/PIN:	101-020-085	County:	SANTA BARBARA
Legal Description:	AS RECORDED IN THE DEED ATTACHED.		

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

DEED CHAIN

Instrument 1. **GRANT DEED**

Date Recorded: 06/21/2021 Instrument: 2021-0046044
Dated: 04/29/2021
Grantor(s): ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY
Grantee(s): ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY
Notes: BY PACIFIC COAST LAND COMPANY, LLC AND PACIFIC COAST ENERGY COMPANY LP, MANAGING MEMBERS; PARCEL 1 OF LLA 2021-46048

Instrument 2. **QUIT CLAIM DEED**

Date Recorded: 09/29/2005 Instrument: 2005-0061316
Grantor(s): BREITBURN ENERGY COMPANY LP
Grantee(s): ORCUTT FEE LLC

Instrument 3. **DEED**

Date Recorded: 10/05/2004 Instrument: 2004-0106748
Grantor(s): ERG OPERATING COMPANY, INC.
Grantee(s): BREITBURN ENERGY COMPANY LP

Instrument 4. **WARRANTY DEED**

Date Recorded: 09/03/2003 Instrument: 2003-0119941
Dated: 08/25/2003
Grantor(s): NUEVO ENERGY COMPANY, A DELAWARE CORPORATION
Grantee(s): ERG OPERATING COMPANY, INC., A TEXAS CORPORATION

Instrument 5. **DEED**

Date Recorded: 04/10/1996 Instrument: 96-21714
Grantor(s): UNION OIL COMPANY OF CALIFORNIA, AS SUCCESSOR BY MERGER TO COLLIER CARBON AND CHEMICAL CORPORATION, FKA R. T. COLLIER CORPORATION BY SUCCESSOR BY MERGER TO BREA CHEMICALS, INC, AND UNOCAL CALIFORNIA PIPELINE COMPANY
Grantee(s): NUEVO ENERGY COMPANY

Instrument 6. **QUIT CLAIM DEED**

Date Recorded: 10/04/1988 Instrument: 88-063655
Grantor(s): UNION OIL COMPANY OF CALIFORNIA, BY ROBERT L. BLETCHER, AS REFEREE IN PARTITION; WELLS FARGO BANK, ET AL
Grantee(s): UNION OIL COMPANY OF CALIFORNIA
Notes: THIS IS THE OLDEST DEED OF RECORD FOUND WITHIN SCOPE OF SEARCH.

MISCELLANEOUS INSTRUMENTS

Instrument 1. **NAME CHANGE AMENDMENT**

Date Recorded: 08/12/2022 Instrument: 2022-0036007
Dated: 01/05/2022
1st Party: ORCUTT FEE LLC
2nd Party: SOLSTRA COMMUNITIES CALIFORNIA LLC
Notes: NO DEED FOUND CHANGING TITLE DOCUMENTS /OWERNSHIP

Instrument 2. **LOT LINE ADJUSTMENT**

Date Recorded: 06/21/2021 Instrument: 2021-0046048
Dated: 05/20/2021
1st Party: ORCUTT FEE LLC

Instrument 3. **DETAILED FACILITY REPORT**

Date Recorded: NA Instrument: NA
1st Party: ORCUTT HILL FACILITIES
2nd Party: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Notes: FRS ID110070094695

Instrument 4. **DETAILED FACILITY REPORT**

Date Recorded: NA Instrument: NA
1st Party: GOLDEN STATE WATER COMPANY
2nd Party: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Notes: FRS ID110070578316

THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-412818-47

Our Environmental Lien and AUL report to 1980 provides a summary of recorded information on a specific property from January 1st, 1980 to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership, links the recorded transactions which pass title from one person (and/or entity) to another, and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from January 1st, 1980 forward. The scope of this search is compliant with ASTM 1527-21 standards.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Historical property transfer information from 1980 forward (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

DISCLAIMER

This report was prepared for the intended use of AFX Research, LLC (AFX) and client, exclusively. This report is not a guarantee of title, nor a commitment to insure, nor a policy of title insurance. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. AFX Research, LLC specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

DEEDS EXHIBIT

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

DOC# 2021-0046044

06/21/2021 Titles: 1 Pages: 4
10:13 AM
SBC

Fees	$23.00
Taxes	$0.00
CA SB2 Fee	$75.00
Total	$98.00

E29

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

Alicia Harrison
Brownstein Hyatt Farber
Schreck
1021 Anacapa Street, 2nd Floor
Santa Barbara, CA 93101

APNs: 101-020-041, 101-020-043 & a portion of 101-020-074
(Case number 18LLA-00000-00001)

GRANT DEED

The undersigned Grantor(s) declares that the Documentary Transfer Tax consideration is $0, City Transfer Tax is **$NONE**, Surveyor Monument Fee is **$NONE** based on:

[x] computed on the consideration or full value of property conveyed, OR
[ ] computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale;
[x] unincorporated area; and
[x] Exempt from transfer tax; Reason: **Lot Line Adjustment**

ORCUTT FEE LLC, a Delaware Limited Liability Company

does hereby grant to

ORCUTT FEE LLC, a Delaware Limited Liability Company

The real property located in the unincorporated area of the County of Santa Barbara, State of California, described in Exhibit "A" attached hereto and by reference made part hereof.

This deed arises from the Lot Line Adjustment 18LLA-00000-00001 and is intended to create a single legal parcel within the meaning of California Civil Code Section 1093.

Executed this _____ day of _____, 20____

Owner: Orcutt Fee LLC, a Delaware Limited Liability Company

By: Pacific Coast Land Company LLC, a Delaware Limited Liability Company
Its Managing Member

By: Pacific Coast Energy Company LP, a Delaware Limited Partnership
Its Managing Member

By: _____
Robert Foss, General Partner

Date: 04/29/2021

Tax statement mail to: Orcutt Fee, LLC
1555 Orcutt Hills Rd.
Orcutt, CA 93455

Notary

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

THE STATE OF TEXAS §
§
COUNTY OF Harris §

This instrument was acknowledged before me on the 29th of April, 20 21, by Robert Foss, in his capacity as General Partner of Pacific Coast Energy Company LP, a Delaware limited partnership, in its capacity as the Managing Member of Pacific Coast Land Company LLC, a Delaware limited liability company, in its capacity as the Managing Member of ORCUTT FEE LLC, a Delaware limited liability company, on behalf of said limited liability company.

[SEAL]

KATERINA HUBACKOVA
Notary Public, State of Texas
Comm. Expires 03-04-2025
Notary ID 132956167

Notary Public, State of Texas

EXHIBIT "A"

18LLA-00000-00001
Legal Description

PARCEL 1

LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST AND LOTS 1, 4, 5 AND 6 OF SECTION 24, TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01-CC-11 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001-0011351 OF OFFICIAL RECORDS.

TOGETHER WITH THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER AND LOTS 1, 2, 3 AND 4 OF SECTION 25, IN TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01-CC-07 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001-0011349 OF OFFICIAL RECORDS.

ALSO TOGETHER WITH THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01-CC-17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001-0011357 OF OFFICIAL RECORDS.

EXCEPTION NO. 1:

EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

EXCEPTION NO. 2:

ALSO EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING NORTHEASTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID PORTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06 FEET;THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25 EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

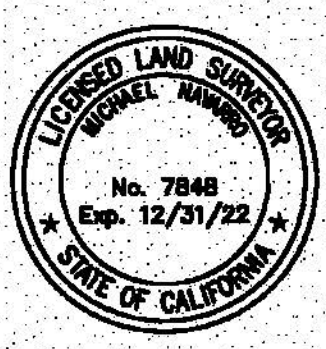
END OF DESCRIPTION

PREPARED BY ME OR UNDER MY SUPERVISION:

12/14/2020

MICHAEL NAVARRO, DATE

P.L.S. NO. 7848 License expires 12/31/2022



LLA_2018

MISCELLANEOUS INSTRUMENTS EXHIBIT

AFX
RELIABLE PROPERTY RESEARCH

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

RECORDING REQUESTED BY
AND WHEN RECORDED RETURN TO:

Gisele M. Goetz
HOLLISTER & BRACE
P. O. Box 630
Santa Barbara, CA 93102
(805) 963-6711

DOC# 2022-0036007

08/12/2022 04:18 PM	Titles: 1	Pages: 4	
SBC	Fees		$25.00
	Taxes		$0.00
E24	CA SB2 Fee		$75.00
	Total		$100.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

NAME CHANGE AMENDMENT

FROM ORCUTT FEE LLC

TO

SOLSTRA COMMUNITIES CALIFORNIA LLC

California Secretary of State

Business Programs Division
1500 11th Street, Sacramento, CA 95814

Request Type: Certified Copies
Entity Name: SOLSTRA COMMUNITIES CALIFORNIA LLC
Formed In: DELAWARE
Entity No.: 200517510055
Entity Type: Limited Liability Company - Out of State

Issuance Date: 08/08/2022
Copies Requested: 1
Receipt No.: 002111515
Certificate No.: 035695024

Document Listing

Reference #	Date Filed	Filing Description	Number of Pages
B0921-1641	07/25/2022	Amendment - Name Change Only	2

** **** ****** ******** End of list ******** ****** **** **

I, SHIRLEY N. WEBER, PH.D., California Secretary of State, do hereby certify on the Issuance Date, the attached document(s) referenced above are true and correct copies and were filed in this office on the date(s) indicated above.

IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California on August 08, 2022.

SHIRLEY N. WEBER, PH.D.
Secretary of State

To verify the issuance of this Certificate, use the Certifcate No. above with the Secretary of State Certification Verification Search available at **biz**fileOnline.sos.ca.gov.

B0921-1641 07/25/2022 5:00 PM Received by California Secretary of State

Certificate Verification No.: 035695024 Date: 08/08/2022

Secretary of State
Foreign Limited Liability Company (LLC)
Name Change Amendment

LLC-6

P

For Office Use Only

-FILED-

File No.: BA20220634274

Date Filed: 7/25/2022

Must be submitted with a current certificate evidencing the name change issued by the government agency where the LLC was formed.

Filing Fee – $30.00

Certification Fee (Optional) – **$5.00**

Note: You must file a Statement of Information (Form LLC-12) to change the LLC's *business address(es), or to change the name or address of the LLC's agent for* service of process. Statements of Information (Form LLC-12) can be filed online at bizfileOnline.sos.ca.gov.

Above Space For Office Use Only

1. LLC Exact Name Used in California (Enter the name used in California exactly as listed on the records of the California Secretary of State.)

ORCUTT FEE LLC

2. LLC 12-Digit (File) Entity Number (Enter the exact 12-digit Entity (File) Number issued by the California Secretary of State.)

2	0	0	5	1	7	5	1	0	0	5	5

3. New LLC Name in the State, Country, or Other Place of LLC Formation (If the LLC changed its name in the jurisdiction of formation, list the new LLC name as listed on your attached certificate evidencing the name change.)

Solstra Communities California LLC

4. California Alternate Name, If Required (Complete either 4a, 4b, 4c)

4a. List an alternate name to be used in California if: (1) the LLC name in Item 3 does not comply with California naming requirements or (2) you only are filing this form to change an existing alternate name used in California. List the alternate name exactly as it is to appear on the records of the California Secretary of State.

4b. Check this box if you completed Item 3, above **and** if applicable. If you check this box, do not complete Item 4a above or 4c below.

☐ This LLC registered in California before January 1, 2014; currently transacts intrastate business in California under the alternate name listed in Item 1 above; and upon this filing, will continue to transact intrastate business in California under the alternate name listed in Item 1 above.

4c. If you check this box, do not complete Item 4a or 4b above.

☐ Check this box if you are relinquishing the California alternate name.

Signature

By signing, I affirm under penalty of perjury that the information herein is true and correct and that I am authorized to sign on behalf of the foreign LLC.

Additional signatures set forth on attached pages, if any, are incorporated herein by reference and made part of this Form LLC-6. (All attachments should be 8 ½ x 11", one-sided, legible and clearly marked as an attachment to this Form LLC-6.)

Signature

Robert Foss, CFO

Type or Print Name

B0921-1642 07/25/2022 5:00 PM Received by California Secretary of State

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "ORCUTT FEE LLC", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "SOLSTRA COMMUNITIES CALIFORNIA LLC" ON THE FIFTH DAY OF JANUARY, A.D. 2022, AT 2:14 O`CLOCK P.M.

Jeffrey W. Bullock, Secretary of State

3981817 8320
SR# 20223044249

Authentication: 203968900
Date: 07-20-22

You may verify this certificate online at corp.delaware.gov/authver.shtml

Certificate Verification No.: 035695024 Date: 08/08/2022

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

DOC# 2021-0046048

06/21/2021 10:13 AM	Titles: 1	Pages: 10	
SBC	Fees		$51.00
	Taxes		$0.00
E29	CA SB2 Fee		$0.00
	Total		$51.00

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

Alicia Harrison
Brownstein Hyatt Farber Schreck
1021 Anacapa Street, 2nd Floor
Santa Barbara, CA 93101

APNs: 101-020-041, 101-020-043 & 101-020-074
Lot Line Adjustment No. 018LLA-00000-00001

Lot Line Adjustment 18LLA-00000-00001

CERTIFICATE OF CONFORMITY

I hereby certify that Lot Line Adjustment No. **18LLA-00000-00001**, described in the concurrent documents together with the conditions attached appear to be in conformity with the provisions of Article III of Chapter 21 (Section 21-90 et seq.) of the County Code of Santa Barbara County and the approval required therein.

ASjevremovic 5/20/2021

Aleksandar Jevremovic Date
County Surveyor
L.S. 8378



CLERK OF THE BOARD'S STATEMENT

I, Mona Miyasato, Clerk of the Board of Supervisors of Santa Barbara County, do hereby state that pursuant to State Government Code Section 66412(d) (State Subdivision Map Act) that the real property taxes on the property involved in this Lot Line Adjustment have been paid or bonded for unless such bond has been waived.

Mona Miyasato
Clerk of the Board of Supervisors

By: Chelsea Lenzi 5/20/21
Deputy Date



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of SANTA BARBARA

On 5-20-2021 before me, Chelsea Lenzi, a Deputy Clerk, personally appeared County Surveyor Aleksandar Jevremovic, who proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Chelsea Lenzi

(Seal)

California Civil Code section 1189

NOTES

Deeds are recorded concurrently as:
Instrument No. 2021 - 0046044 Official Records
Instrument No. 2021 - 0046045 Official Records
Instrument No. 2021 - 0046046 Official Records

Owners Certificate(s) and Certificate(s) of Holders of Record Title Interest is/are recorded concurrently as:
Instrument No. 2021 - 0046047 Official Records
Reservation of Access Easement Agreement as Inst. No. 2021 - 0046050 Official Records
This document is subject to certain conditions and information included in a "NOTICE" and recorded concurrently as Instrument No. 2021 - 0046049 Official Records

Legal descriptions reflecting the parcels reconfigured per this Lot Line Adjustment 18LLA-00000-00001 are described as Parcel 1, Parcel 2 and Parcel 3, attached hereto and incorporated herein as Exhibit A.

RECORD OWNERS

Title to the estate or interest in the land at the Date hereof is vested in:
Orcutt Fee LLC, a Delaware Limited Liability Company.

APNs: 101-020-041, 101-020-043 & 101-020-074

Lot Line Adjustment 18LLA-00000-00001

ATTACHMENTS

Exhibit "A" – Legal Description for Parcel 1, Parcel 2, and Parcel 3
Exhibit "B" – Exhibit Map for Parcel 1, Parcel 2, and Parcel 3

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

PARCEL 1

LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST AND LOTS 1, 4, 5 AND 6 OF SECTION 24, TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–11 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001–0011351 OF OFFICIAL RECORDS.

TOGETHER WITH THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER AND LOTS 1, 2, 3 AND 4 OF SECTION 25, IN TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–07 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001–0011349 OF OFFICIAL RECORDS.

ALSO TOGETHER WITH THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001–0011357 OF OFFICIAL RECORDS.

EXCEPTION NO. 1:

EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

EXCEPTION NO. 2:

ALSO EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING NORTHEASTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID PORTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

FEET; THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25"EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

PARCEL 2

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001–0011357 OF OFFICIAL RECORDS, LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

PARCEL 3

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

COMPLIANCE 01-CC-17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001-0011357 OF OFFICIAL RECORDS.

EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING SOUTHWESTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST OF SAN BERNARDINO BASE AND MERIDIAN, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID PORTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06 FEET; THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25" EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

EXHIBIT "B" ATTACHED HERETO AND MADE A PART HEREOF.

DATA IN THESE DESCRIPTIONS ARE BASED ON RECORD DATA AS NOTED ON ATTACHED EXHIBIT "B".

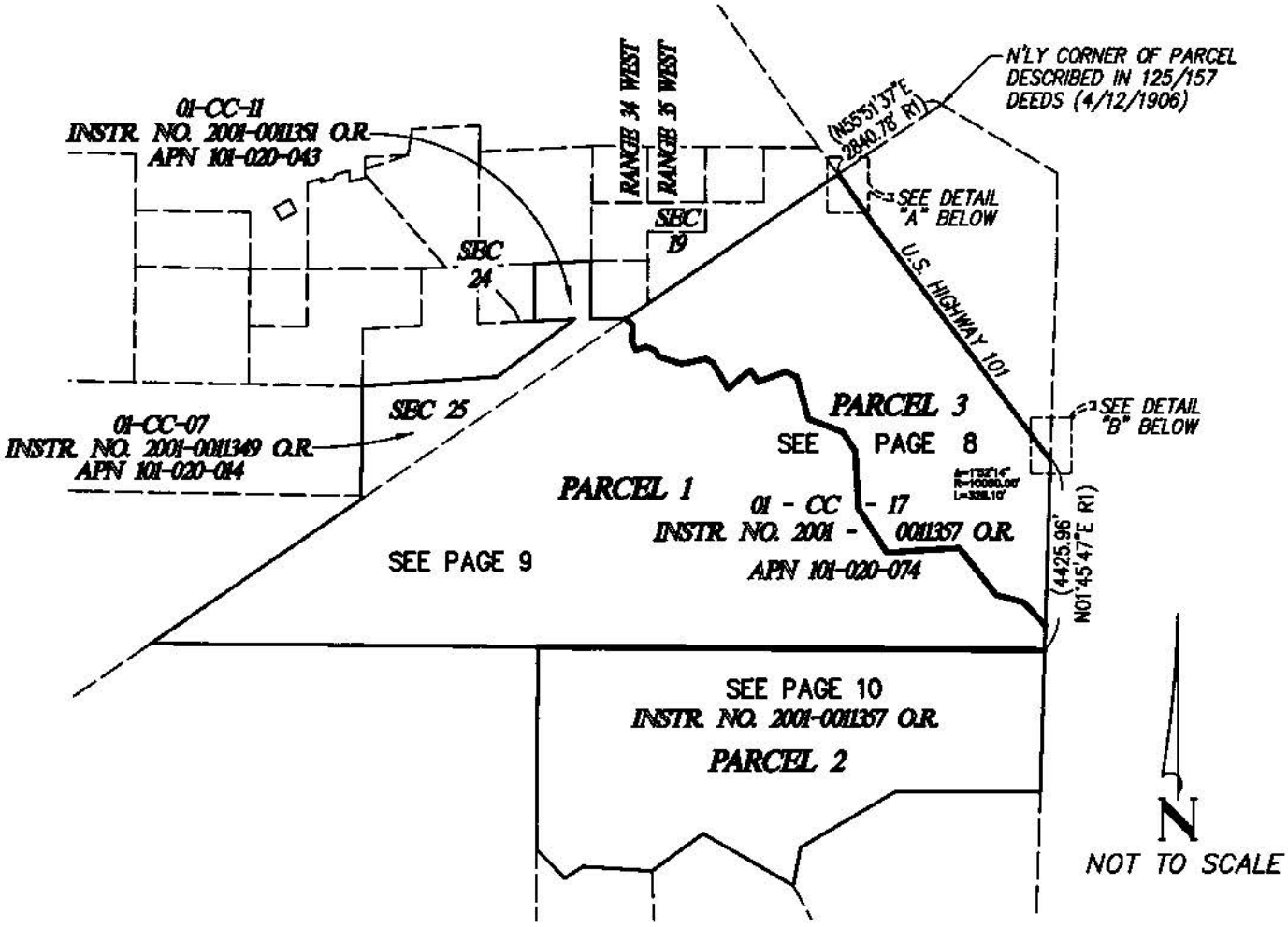
PREPARED UNDER MY SUPERVISION:

12/14/2020

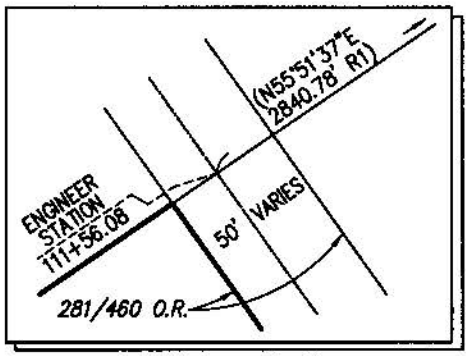
MICHAEL NAVARRO, L.S. 7848 DATE
LICENSE EXPIRES 12/21/2022



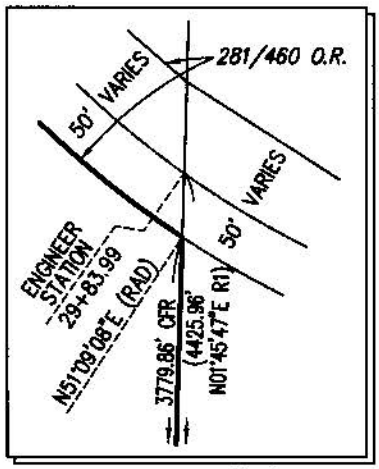
EXHIBIT "B"







DETAIL "A"
NOT TO SCALE



DETAIL "B"
NOT TO SCALE

LEGEND:

- PARCEL LINE BEING ADJUSTED
- ADJUSTED PARCEL LINE
- PARCEL LINES REMAINING
- CFR CALCULATED FROM RECORD

RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD OR CALCULATED FROM RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

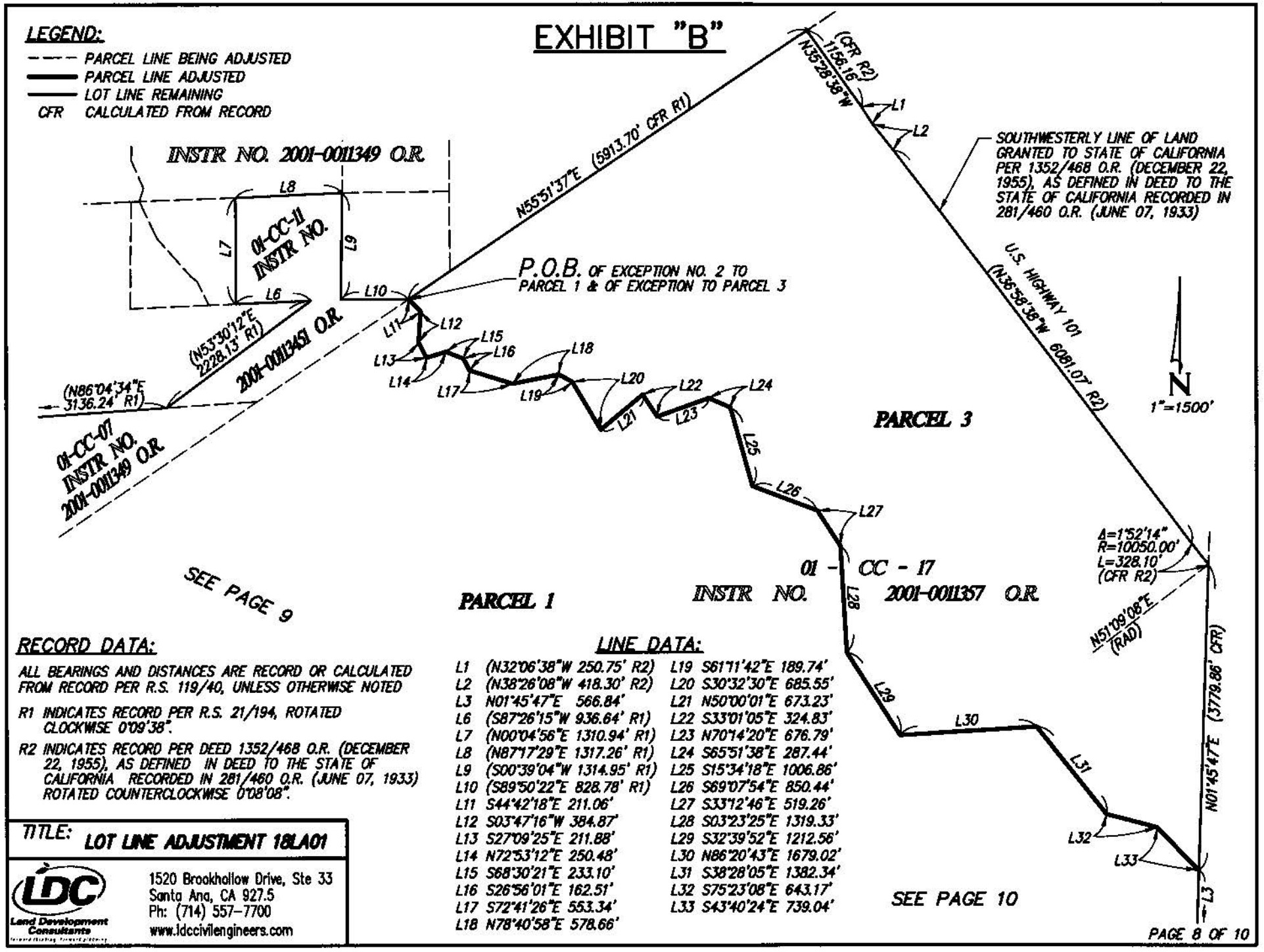
R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

R2 INDICATES RECORD PER DEED 1352/468 O.R. (DECEMBER 22, 1955) AS DEFINED DEFINED IN DEED TO THE STATE OF CALIFORNIA RECORDED IN 281/460 O.R. (JUNE 07, 1933)

TITLE: **LOT LINE ADJUSTMENT 18LA01**

LDC Land Development Consultants
1520 Brookhollow Drive, Ste 33
Santa Ana, CA 927.5
Ph: (714) 557-7700
www.ldccivilengineers.com

EXHIBIT "B"



RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD OR CALCULATED FROM RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

R2 INDICATES RECORD PER DEED 1352/468 O.R. (DECEMBER 22, 1955), AS DEFINED IN DEED TO THE STATE OF CALIFORNIA RECORDED IN 281/460 O.R. (JUNE 07, 1933) ROTATED COUNTERCLOCKWISE 0°08'08".

LINE DATA:

L1	(N32°06'38"W 250.75' R2)	L19	S61°11'42"E 189.74'
L2	(N38°26'08"W 418.30' R2)	L20	S30°32'30"E 685.55'
L3	N01°45'47"E 566.84'	L21	N50°00'01"E 673.23'
L6	(S87°26'15"W 936.64' R1)	L22	S33°01'05"E 324.83'
L7	(N00°04'56"E 1310.94' R1)	L23	N70°14'20"E 676.79'
L8	(N87°17'29"E 1317.26' R1)	L24	S65°51'38"E 287.44'
L9	(S00°39'04"W 1314.95' R1)	L25	S15°34'18"E 1006.86'
L10	(S89°50'22"E 828.78' R1)	L26	S69°07'54"E 850.44'
L11	S44°42'18"E 211.06'	L27	S33°12'46"E 519.26'
L12	S03°47'16"W 384.87'	L28	S03°23'25"E 1319.33'
L13	S27°09'25"E 211.88'	L29	S32°39'52"E 1212.56'
L14	N72°53'12"E 250.48'	L30	N86°20'43"E 1679.02'
L15	S68°30'21"E 233.10'	L31	S38°28'05"E 1382.34'
L16	S26°56'01"E 162.51'	L32	S75°23'08"E 643.17'
L17	S72°41'26"E 553.34'	L33	S43°40'24"E 739.04'
L18	N78°40'58"E 578.66'		

TITLE: **LOT LINE ADJUSTMENT 18LA01**

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Santa Ana, CA 927.5
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www.ldccivilengineers.com

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EXHIBIT "B"

LINE DATA:

L6 (S87°26'15"W 936.64' R1)
L7 (N00°04'56"E 1310.94' R1)
L8 (N87°17'29"E 1317.26' R1)
L9 (S00°39'04"W 1314.95' R1)
L10 (S89°50'22"E 828.78' R1)
L11 S44°42'18"E 211.06'
L12 S03°47'16"W 384.87'
L13 S27°09'25"E 211.88'
L14 N72°53'12"E 250.48'
L15 S68°30'21"E 233.10'
L16 S26°56'01"E 162.51'
L17 S72°41'26"E 553.34'
L18 N78°40'58"E 578.66'
L19 S61°11'42"E 189.74'
L20 S30°32'30"E 685.55'
L34 (N86°04'34"E 1128.23' R1)

RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

L8
L7
01-CC-11
INSTR NO.
L6
L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
SEE PAGE 8
PARCEL 3
(N53°30'12"E 2228.13' R1)
2001-0011357 O.R.
(2248.93' R1)
L34
(3136.24' R1)
(N86°04'34"E 4264.47' R1)
P.O.B. OF EXCEPTION NO. 2
TO PARCEL 1 & OF EXCEPTION
TO PARCEL 3
01-CC-07
INSTR NO.
2001-0011349 O.R.
(N00°24'31"E 2605.62' R1)
(5162.74' R1)
(N55°51'37"E 7411.67' R1)
SEE PAGE 8
PARCEL 1
N55°51'37"E 5897.19' (5897.20' R1)
01-CC-17
INSTR NO. 2001-0011357 O.R.
P.O.B. OF EXCEPTION NO. 1
TO PARCEL 1 & OF PARCEL 2
SEE PAGE 10
N89°26'40"W 8967.06'
S89°40'02"E 11733.47'
N00°25'50"E 4652.89'
PARCEL 2
SEE PAGE 10

TITLE: **LOT LINE ADJUSTMENT 18LA01**

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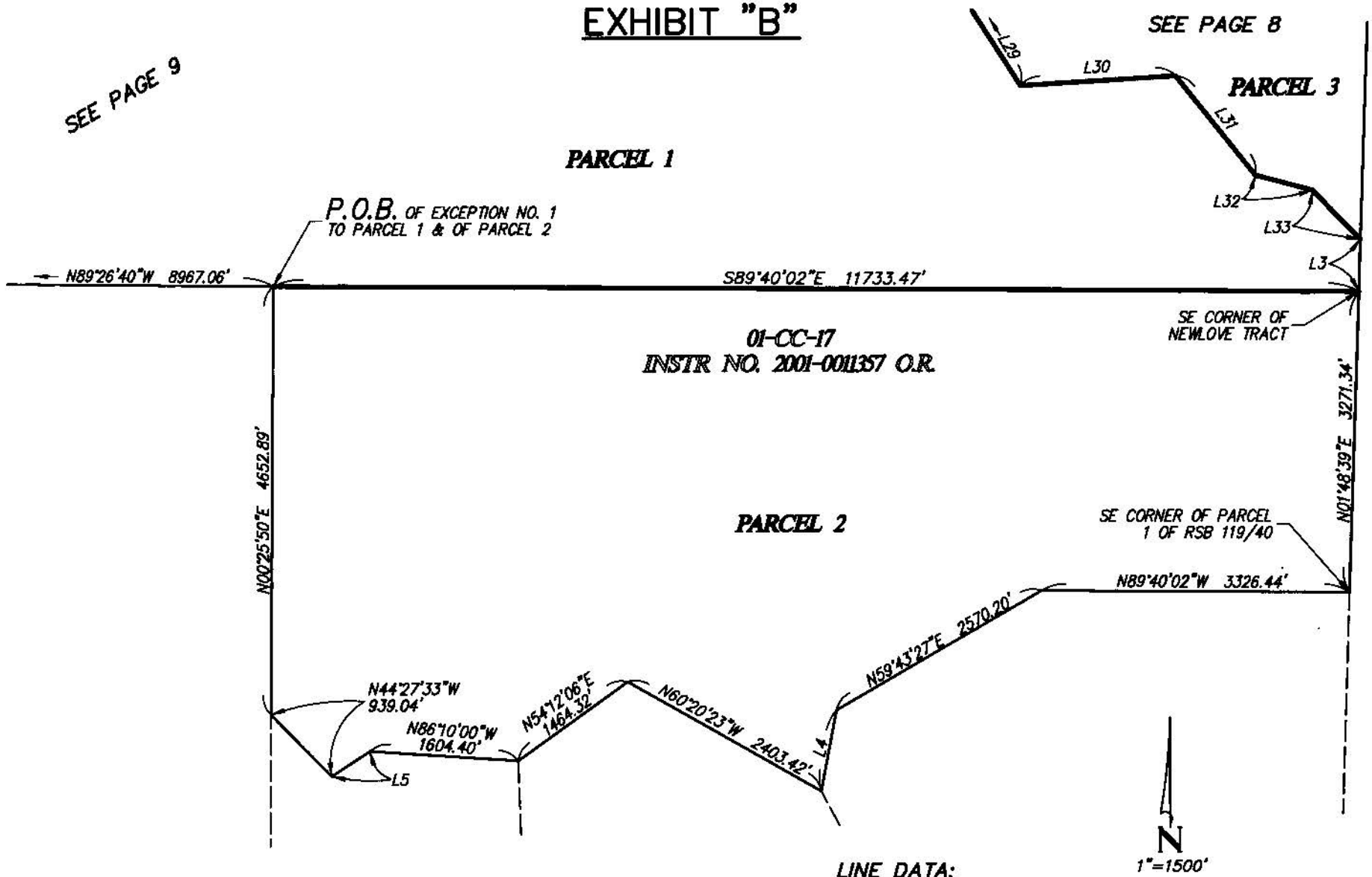
N
1"=1500'

LEGEND:

PARCEL LINE BEING ADJUSTED
PARCEL LINE ADJUSTED
LOT LINE REMAINING

DOC #2021-0046048 Page 9 of 10

EXHIBIT "B"



NOTE:

ALL BEARINGS AND DISTANCES ARE RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED.

LEGEND:

- PARCEL LINE BEING ADJUSTED
- PARCEL LINE ADJUSTED
- LOT LINE REMAINING

LINE DATA:

L3	N01°45'47"E	566.84'
L4	N10°43'29"E	892.87'
L5	N56°59'54"E	498.41'
L29	S32°39'52"E	1212.56'
L30	N86°20'43"E	1679.02'
L31	S38°28'05"E	1382.34'
L32	S75°23'08"E	643.17'
L33	S43°40'24"E	739.04'

TITLE: **LOT LINE ADJUSTMENT 18LA01**

LDC Land Development Consultants
1520 Brookhollow Drive, Ste 33
Santa Ana, CA 927.5
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www.ldccivilengineers.com

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Detailed Facility Report

Facility Summary

ORCUTT HILL FACILITIES

1555 ORCUTT HILL ROAD, ORCUTT, CA 93455

FRS (Facility Registry Service) ID: 110070094695

EPA Region: 09

Latitude: 34.83387

Longitude: -120.40539

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Expired (CAZ458547)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070094695					N	34.83387	-120.40539
ICIS-NPDES	CWA	CAZ458547	Non-Major: General Permit Covered Facility	Expired	Industrial Stormwater	06/30/2020	N	34.83387	-120.40539

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070094695	ORCUTT HILL FACILITIES	1555 ORCUTT HILL ROAD, ORCUTT, CA 93455	Santa Barbara County

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-NPDES	CWA	CAZ458547	ORCUTT HILL FACILITIES	1555 ORCUTT HILL ROAD, ORCUTT, CA 93455	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	CAZ458547	1311	Crude Petroleum And Natural Gas

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
Santa Ynez Reservation	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California	100000260	24

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	CAZ458547	No	03/31/2025	0	07/04/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: CAZ458547)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
180600090103	Harris Canyon	--	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	Yes	1-Hour Ozone (1979)
Lead	No	--	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	45
Population Density	14/sq.mi.
Housing Units in Area	19
Percent People of Color	40%
Households in Area	18
Households on Public Assistance	1
Persons With Low Income	5
Percent With Low Income	11%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.83387
Center Longitude	-120.40539
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1 (5.88%)
$15,000 - $25,000	0 (0%)
$25,000 - $50,000	2 (11.76%)
$50,000 - $75,000	1 (5.88%)
Greater than $75,000	13 (76.47%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	3 (7%)
Minors 17 years and younger	10 (22%)
Adults 18 years and older	36 (80%)
Seniors 65 years and older	10 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	34 (76%)
African-American	0 (0%)
Hispanic-Origin	13 (29%)
Asian	3 (7%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (2%)
Other/Multiracial	4 (9%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	2 (6.06%)
9th through 12th Grade	2 (6.06%)
High School Diploma	6 (18.18%)
Some College/2-year	8 (24.24%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	12 (36.36%)

Detailed Facility Report

Facility Summary

GOLDEN STATE WATER COMPANY

1555 ORCUTT HILL RD, SANTA MARIA, CA 93455

FRS (Facility Registry Service) ID: 110070578316

EPA Region: 09

Latitude: 34.831956

Longitude: -120.414141

Locational Data Source: RCRAINFO

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active Other, (CAC003013644)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070578316					N	34.831956	-120.414141
RCRAInfo	RCRA	CAC003013644	Other	Active (H)			N	34.831956	-120.414141

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070578316	GOLDEN STATE WATER COMPANY	1555 ORCUTT HILL RD, SANTA MARIA, CA 93455	Santa Barbara County
RCRAInfo	RCRA	CAC003013644	GOLDEN STATE WATER COMPANY	1555 ORCUTT HILL RD, SANTA MARIA, CA 93455	Santa Barbara County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	CAC003013644	221310	Water Supply and Irrigation Systems

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
Santa Ynez Reservation	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California	100000260	24

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	CAC003013644	No	07/05/2025	0	07/04/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: CAC003013644)			07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	Yes	1-Hour Ozone (1979)
Lead	No	--	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	39
Population Density	13/sq.mi.
Housing Units in Area	17
Percent People of Color	41%
Households in Area	16
Households on Public Assistance	1
Persons With Low Income	4
Percent With Low Income	10%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.831956
Center Longitude	-120.414141
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1 (6.25%)
$15,000 - $25,000	0 (0%)
$25,000 - $50,000	2 (12.5%)
$50,000 - $75,000	1 (6.25%)
Greater than $75,000	12 (75%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	3 (8%)
Minors 17 years and younger	9 (23%)
Adults 18 years and older	31 (79%)
Seniors 65 years and older	9 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	30 (77%)
African-American	0 (0%)
Hispanic-Origin	11 (28%)
Asian	3 (8%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (3%)
Other/Multiracial	4 (10%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	2 (6.9%)
9th through 12th Grade	2 (6.9%)
High School Diploma	5 (17.24%)
Some College/2-year	7 (24.14%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	11 (37.93%)

ENVIRONMENTAL LIEN AND AUL REPORT TO 1980

Order Number:
79-412819-47

Subject Property:
NOT REPORTED
SANTA BARBARA COUNTY, CA

Effective:
07/01/2025

Completed:
07/08/2025

AFX RESEARCH, LLC

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999 Monterey St. Suite 380, San Luis Obispo, CA 93401

(877) 848-5337 / www.afxllc.com

Order #: 79-412819-47 | Completed: 07/08/2025 | Effective: 07/01/2025

SOURCES SEARCHED

Source 1:	SANTA BARBARA COUNTY RECORDER'S OFFICE
Source 2:	SANTA BARBARA COUNTY ASSESSOR'S OFFICE
Source 3:	CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Source 4:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Examiner Notes:	PUBLIC RECORDS OF SANTA BARBARA COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1980 TO JULY 1, 2025, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED. **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Current Owner(s):	ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY		
Property Description:	NOT REPORTED		
County, State:	SANTA BARBARA COUNTY, CA		
APN/Parcel/PIN:	101-020-086	County:	SANTA BARBARA
Legal Description:	AS RECORDED IN THE DEED ATTACHED.		

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

DEED CHAIN

Instrument 1. **GRANT DEED**

Date Recorded: 06/21/2021 Instrument: 2021-0046045
Dated: 04/29/2021
Grantor(s): ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY
Grantee(s): ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY
Notes: BY PACIFIC COAST LAND COMPANY, LLC AND PACIFIC COAST ENERGY COMPANY LP, MANAGING MEMBERS; PARCEL 2 OF LLA 2021-46048

Instrument 2. **QUIT CLAIM DEED**

Date Recorded: 09/29/2005 Instrument: 2005-0061316
Grantor(s): BREITBURN ENERGY COMPANY LP
Grantee(s): ORCUTT FEE LLC

Instrument 3. **DEED**

Date Recorded: 10/05/2004 Instrument: 2004-0106748
Grantor(s): ERG OPERATING COMPANY, INC.
Grantee(s): BREITBURN ENERGY COMPANY LP

Instrument 4. **WARRANTY DEED**

Date Recorded: 09/03/2003 Instrument: 2003-0119941
Dated: 08/25/2003
Grantor(s): NUEVO ENERGY COMPANY, A DELAWARE CORPORATION
Grantee(s): ERG OPERATING COMPANY, INC., A TEXAS CORPORATION

Instrument 5. **DEED**

Date Recorded: 04/10/1996 Instrument: 96-21714
Grantor(s): UNION OIL COMPANY OF CALIFORNIA, AS SUCCESSOR BY MERGER TO COLLIER CARBON AND CHEMICAL CORPORATION, FKA R. T. COLLIER CORPORATION BY SUCCESSOR BY MERGER TO BREA CHEMICALS, INC, AND UNOCAL CALIFORNIA PIPELINE COMPANY
Grantee(s): NUEVO ENERGY COMPANY

Instrument 6. **QUIT CLAIM DEED**

Date Recorded: 10/04/1988 Instrument: 88-063655
Grantor(s): UNION OIL COMPANY OF CALIFORNIA, BY ROBERT L. BLETCHER, AS REFEREE IN PARTITION; WELLS FARGO BANK, ET AL
Grantee(s): UNION OIL COMPANY OF CALIFORNIA
Notes: THIS IS THE OLDEST DEED OF RECORD FOUND WITHIN SCOPE OF SEARCH.

MISCELLANEOUS INSTRUMENTS

Instrument 1. **NAME CHANGE AMENDMENT**

Date Recorded: 08/12/2022 Instrument: 2022-0036007
Dated: 01/05/2022
1st Party: ORCUTT FEE LLC
2nd Party: SOLSTRA COMMUNITIES CALIFORNIA LLC
Notes: NO DEED FOUND CHANGING TITLE DOCUMENTS /OWERNSHIP

Instrument 2. **LOT LINE ADJUSTMENT**

Date Recorded: 06/21/2021 Instrument: 2021-0046048
Dated: 05/20/2021
1st Party: ORCUTT FEE LLC

Instrument 3. **DETAILED FACILITY REPORT**

Date Recorded: NA Instrument: NA
1st Party: ORCUTT HILL FACILITIES
2nd Party: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Notes: FRS ID110070094695

Instrument 4. **DETAILED FACILITY REPORT**

Date Recorded: NA Instrument: NA
1st Party: GOLDEN STATE WATER COMPANY
2nd Party: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Notes: FRS ID110070578316

THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-412819-47

Our Environmental Lien and AUL report to 1980 provides a summary of recorded information on a specific property from January 1st, 1980 to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership, links the recorded transactions which pass title from one person (and/or entity) to another, and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from January 1st, 1980 forward. The scope of this search is compliant with ASTM 1527-21 standards.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Historical property transfer information from 1980 forward (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

DISCLAIMER

This report was prepared for the intended use of AFX Research, LLC (AFX) and client, exclusively. This report is not a guarantee of title, nor a commitment to insure, nor a policy of title insurance. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. AFX Research, LLC specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

DEEDS EXHIBIT

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

DOC# 2021-0046045

Alicia Harrison
Brownstein Hyatt Farber
Schreck
1021 Anacapa Street, 2nd Floor
Santa Barbara, CA 93101

06/21/2021 10:13 AM	Titles: 1	Pages: 3
SBC	Fees	$20.00
	Taxes	$0.00
E29	CA SB2 Fee	$75.00
	Total	$95.00

APN: A portion of 101-020-074
(Case number 18LLA-00000-00001)

GRANT DEED

The undersigned Grantor(s) declares that the Documentary Transfer Tax consideration is $0, City Transfer Tax is **$NONE**, Surveyor Monument Fee is **$NONE** based on:

[x] computed on the consideration or full value of property conveyed, OR
[ ] computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale;
[x] unincorporated area; and
[x] Exempt from transfer tax; Reason: **Lot Line Adjustment**

ORCUTT FEE LLC, a Delaware Limited Liability Company

does hereby grant to

ORCUTT FEE LLC, a Delaware Limited Liability Company

The real property located in the unincorporated area of the County of Santa Barbara, State of California, described in Exhibit "A" attached hereto and by reference made part hereof.

This deed arises from the Lot Line Adjustment 18LLA-00000-00001 and is intended to create a single legal parcel within the meaning of California Civil Code Section 1093.

Executed this _____ day of _____, 20____

Owner: Orcutt Fee LLC, a Delaware Limited Liability Company

By: Pacific Coast Land Company LLC, a Delaware Limited Liability Company
Its Managing Member

By: Pacific Coast Energy Company LP, a Delaware Limited Partnership
Its Managing Member

By: _____ Date: 4/29/2021
Robert Foss, General Partner

LLA_2018

Tax Statement mail to: Orcutt Fee, LLC
1555 Orcutt Hills Rd.
Orcutt, CA 93455

Notary

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

THE STATE OF TEXAS §
§
COUNTY OF Harris §

This instrument was acknowledged before me on the 29th of April, 20 21, by Robert Foss, in his capacity as General Partner of Pacific Coast Energy Company LP, a Delaware limited partnership, in its capacity as the Managing Member of Pacific Coast Land Company LLC, a Delaware limited liability company, in its capacity as the Managing Member of ORCUTT FEE LLC, a Delaware limited liability company, on behalf of said limited liability company.

[SEAL]

KATERINA HUBACKOVA
Notary Public, State of Texas
Comm. Expires 03-04-2025
Notary ID 132956167

Notary Public, State of Texas

EXHIBIT "A"

18LLA-00000-00001
Legal Description

PARCEL 2

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01-CC-17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001-0011357 OF OFFICIAL RECORDS, LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

END OF DESCRIPTION

PREPARED BY ME OR UNDER MY SUPERVISION:



12/14/2020

MICHAEL NAVARRO, DATE
P.L.S. NO. 7848 License expires 12/31/2022

MISCELLANEOUS INSTRUMENTS EXHIBIT

AFX
RELIABLE PROPERTY RESEARCH

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

RECORDING REQUESTED BY
AND WHEN RECORDED RETURN TO:

Gisele M. Goetz
HOLLISTER & BRACE
P. O. Box 630
Santa Barbara, CA 93102
(805) 963-6711

DOC# 2022-0036007

08/12/2022 04:18 PM	Titles: 1	Pages: 4	
SBC	Fees		$25.00
	Taxes		$0.00
E24	CA SB2 Fee		$75.00
	Total		$100.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

NAME CHANGE AMENDMENT

FROM ORCUTT FEE LLC

TO

SOLSTRA COMMUNITIES CALIFORNIA LLC

California Secretary of State

Business Programs Division
1500 11th Street, Sacramento, CA 95814

Request Type: Certified Copies
Entity Name: SOLSTRA COMMUNITIES CALIFORNIA LLC
Formed In: DELAWARE
Entity No.: 200517510055
Entity Type: Limited Liability Company - Out of State

Issuance Date: 08/08/2022
Copies Requested: 1
Receipt No.: 002111515
Certificate No.: 035695024

Document Listing

Reference #	Date Filed	Filing Description	Number of Pages
B0921-1641	07/25/2022	Amendment - Name Change Only	2

** **** ****** ******** End of list ******** ****** **** **

I, SHIRLEY N. WEBER, PH.D., California Secretary of State, do hereby certify on the Issuance Date, the attached document(s) referenced above are true and correct copies and were filed in this office on the date(s) indicated above.

IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California on August 08, 2022.

SHIRLEY N. WEBER, PH.D.
Secretary of State

To verify the issuance of this Certificate, use the Certifcate No. above with the Secretary of State Certification Verification Search available at **biz**fileOnline.sos.ca.gov.

B0921-1641 07/25/2022 5:00 PM Received by California Secretary of State

Certificate Verification No.: 035695024 Date: 08/08/2022

Secretary of State
Foreign Limited Liability Company (LLC)
Name Change Amendment

LLC-6

P

For Office Use Only

-FILED-

File No.: BA20220634274

Date Filed: 7/25/2022

Must be submitted with a current certificate evidencing the name change issued by the government agency where the LLC was formed.

Filing Fee – $30.00

Certification Fee (Optional) – **$5.00**

Note: You must file a Statement of Information (Form LLC-12) to change the LLC's *business address(es), or to change the name or address of the LLC's agent for* service of process. Statements of Information (Form LLC-12) can be filed online at bizfileOnline.sos.ca.gov.

Above Space For Office Use Only

1. LLC Exact Name Used in California (Enter the name used in California exactly as listed on the records of the California Secretary of State.)

ORCUTT FEE LLC

2. LLC 12-Digit (File) Entity Number (Enter the exact 12-digit Entity (File) Number issued by the California Secretary of State.)

2	0	0	5	1	7	5	1	0	0	5	5

3. New LLC Name in the State, Country, or Other Place of LLC Formation (If the LLC changed its name in the jurisdiction of formation, list the new LLC name as listed on your attached certificate evidencing the name change.)

Solstra Communities California LLC

4. California Alternate Name, If Required (Complete either 4a, 4b, 4c)

4a. List an alternate name to be used in California if: (1) the LLC name in Item 3 does not comply with California naming requirements or (2) you only are filing this form to change an existing alternate name used in California. List the alternate name exactly as it is to appear on the records of the California Secretary of State.

4b. Check this box if you completed Item 3, above **and** if applicable. If you check this box, do not complete Item 4a above or 4c below.

☐ This LLC registered in California before January 1, 2014; currently transacts intrastate business in California under the alternate name listed in Item 1 above; and upon this filing, will continue to transact intrastate business in California under the alternate name listed in Item 1 above.

4c. If you check this box, do not complete Item 4a or 4b above.

☐ Check this box if you are relinquishing the California alternate name.

Signature

By signing, I affirm under penalty of perjury that the information herein is true and correct and that I am authorized to sign on behalf of the foreign LLC.

Additional signatures set forth on attached pages, if any, are incorporated herein by reference and made part of this Form LLC-6. (All attachments should be 8 ½ x 11", one-sided, legible and clearly marked as an attachment to this Form LLC-6.)

Signature

Robert Foss, CFO

Type or Print Name

B0921-1642 07/25/2022 5:00 PM Received by California Secretary of State

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "ORCUTT FEE LLC", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "SOLSTRA COMMUNITIES CALIFORNIA LLC" ON THE FIFTH DAY OF JANUARY, A.D. 2022, AT 2:14 O`CLOCK P.M.

Jeffrey W. Bullock, Secretary of State

3981817 8320
SR# 20223044249

Authentication: 203968900
Date: 07-20-22

You may verify this certificate online at corp.delaware.gov/authver.shtml

Certificate Verification No.: 035695024 Date: 08/08/2022

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

DOC# 2021-0046048

06/21/2021 10:13 AM	Titles: 1	Pages: 10	
SBC	Fees		$51.00
	Taxes		$0.00
E29	CA SB2 Fee		$0.00
	Total		$51.00

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

Alicia Harrison
Brownstein Hyatt Farber Schreck
1021 Anacapa Street, 2nd Floor
Santa Barbara, CA 93101

APNs: 101-020-041, 101-020-043 & 101-020-074
Lot Line Adjustment No. 018LLA-00000-00001

Lot Line Adjustment 18LLA-00000-00001

CERTIFICATE OF CONFORMITY

I hereby certify that Lot Line Adjustment No. **18LLA-00000-00001**, described in the concurrent documents together with the conditions attached appear to be in conformity with the provisions of Article III of Chapter 21 (Section 21-90 et seq.) of the County Code of Santa Barbara County and the approval required therein.

ASjevremovic 5/20/2021

Aleksandar Jevremovic Date
County Surveyor
L.S. 8378



CLERK OF THE BOARD'S STATEMENT

I, Mona Miyasato, Clerk of the Board of Supervisors of Santa Barbara County, do hereby state that pursuant to State Government Code Section 66412(d) (State Subdivision Map Act) that the real property taxes on the property involved in this Lot Line Adjustment have been paid or bonded for unless such bond has been waived.

Mona Miyasato
Clerk of the Board of Supervisors

By: Chelsea Lenzi 5/20/21
Deputy Date



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of SANTA BARBARA

On 5-20-2021 before me, Chelsea Lenzi, a Deputy Clerk, personally appeared County Surveyor Aleksandar Jevremovic, who proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Chelsea Lenzi

(Seal)

California Civil Code section 1189

NOTES

Deeds are recorded concurrently as:
Instrument No. 2021 - 0046044 Official Records
Instrument No. 2021 - 0046045 Official Records
Instrument No. 2021 - 0046046 Official Records

Owners Certificate(s) and Certificate(s) of Holders of Record Title Interest is/are recorded concurrently as:
Instrument No. 2021 - 0046047 Official Records
Reservation of Access Easement Agreement as Inst. No. 2021 - 0046050 Official Records
This document is subject to certain conditions and information included in a "NOTICE" and recorded concurrently as Instrument No. 2021 - 0046049 Official Records

Legal descriptions reflecting the parcels reconfigured per this Lot Line Adjustment 18LLA-00000-00001 are described as Parcel 1, Parcel 2 and Parcel 3, attached hereto and incorporated herein as Exhibit A.

RECORD OWNERS

Title to the estate or interest in the land at the Date hereof is vested in:
Orcutt Fee LLC, a Delaware Limited Liability Company.

APNs: 101-020-041, 101-020-043 & 101-020-074

Lot Line Adjustment 18LLA-00000-00001

ATTACHMENTS

Exhibit "A" – Legal Description for Parcel 1, Parcel 2, and Parcel 3
Exhibit "B" – Exhibit Map for Parcel 1, Parcel 2, and Parcel 3

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

PARCEL 1

LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST AND LOTS 1, 4, 5 AND 6 OF SECTION 24, TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–11 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001–0011351 OF OFFICIAL RECORDS.

TOGETHER WITH THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER AND LOTS 1, 2, 3 AND 4 OF SECTION 25, IN TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–07 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001–0011349 OF OFFICIAL RECORDS.

ALSO TOGETHER WITH THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001–0011357 OF OFFICIAL RECORDS.

EXCEPTION NO. 1:

EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

EXCEPTION NO. 2:

ALSO EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING NORTHEASTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID PORTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

FEET; THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25"EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

PARCEL 2

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001–0011357 OF OFFICIAL RECORDS, LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

PARCEL 3

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

COMPLIANCE 01-CC-17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001-0011357 OF OFFICIAL RECORDS.

EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING SOUTHWESTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST OF SAN BERNARDINO BASE AND MERIDIAN, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID PORTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06 FEET; THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25" EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

EXHIBIT "B" ATTACHED HERETO AND MADE A PART HEREOF.

DATA IN THESE DESCRIPTIONS ARE BASED ON RECORD DATA AS NOTED ON ATTACHED EXHIBIT "B".

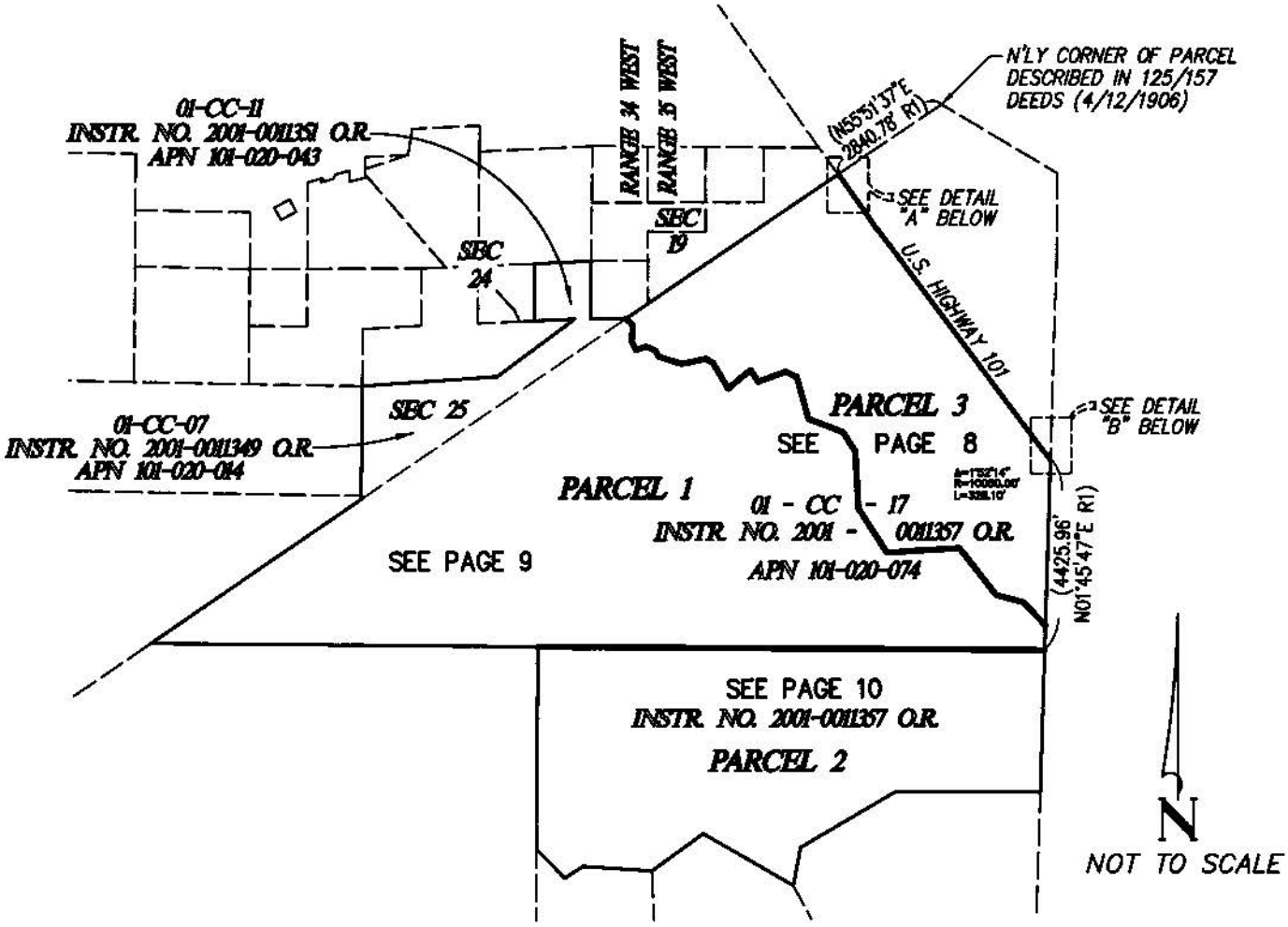
PREPARED UNDER MY SUPERVISION:

12/14/2020

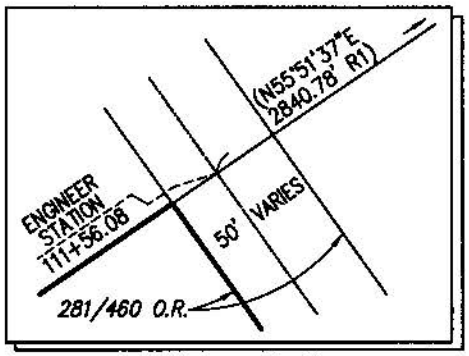
MICHAEL NAVARRO, L.S. 7848 DATE
LICENSE EXPIRES 12/21/2022



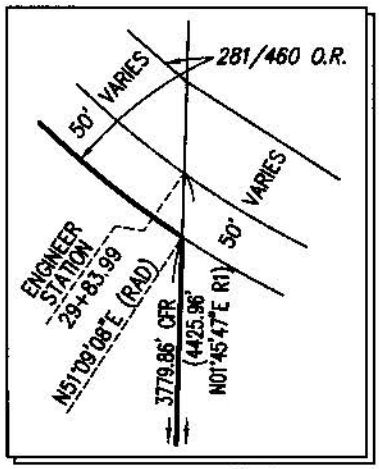
EXHIBIT "B"







DETAIL "A"
NOT TO SCALE



DETAIL "B"
NOT TO SCALE

LEGEND:

- PARCEL LINE BEING ADJUSTED
- ADJUSTED PARCEL LINE
- PARCEL LINES REMAINING
- CFR CALCULATED FROM RECORD

RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD OR CALCULATED FROM RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

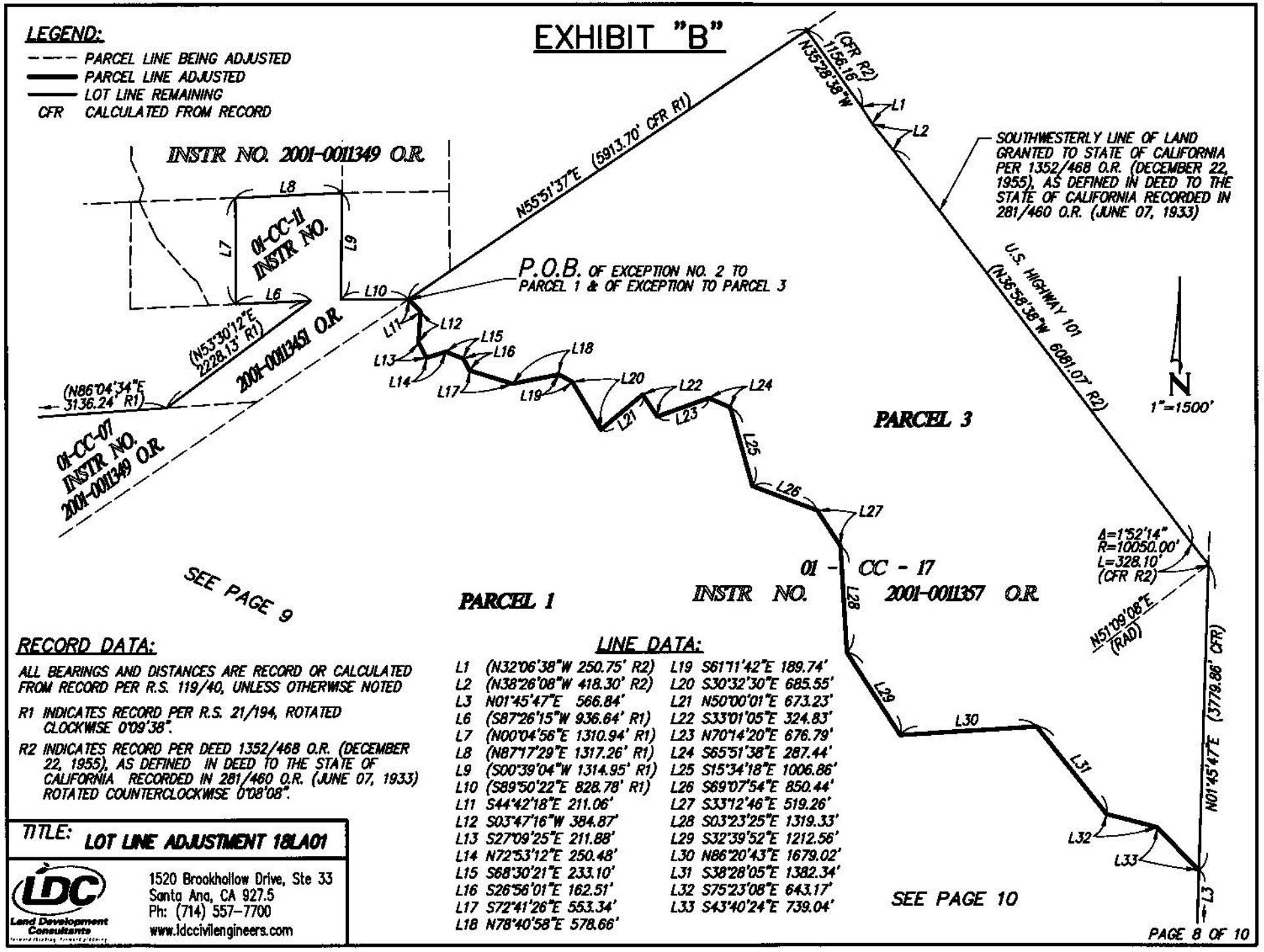
R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

R2 INDICATES RECORD PER DEED 1352/468 O.R. (DECEMBER 22, 1955) AS DEFINED DEFINED IN DEED TO THE STATE OF CALIFORNIA RECORDED IN 281/460 O.R. (JUNE 07, 1933)

TITLE: **LOT LINE ADJUSTMENT 18LA01**

LDC Land Development Consultants
1520 Brookhollow Drive, Ste 33
Santa Ana, CA 927.5
Ph: (714) 557-7700
www.ldccivilengineers.com

EXHIBIT "B"



RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD OR CALCULATED FROM RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

R2 INDICATES RECORD PER DEED 1352/468 O.R. (DECEMBER 22, 1955), AS DEFINED IN DEED TO THE STATE OF CALIFORNIA RECORDED IN 281/460 O.R. (JUNE 07, 1933) ROTATED COUNTERCLOCKWISE 0°08'08".

LINE DATA:

L1	(N32°06'38"W 250.75' R2)	L19	S61°11'42"E 189.74'
L2	(N38°26'08"W 418.30' R2)	L20	S30°32'30"E 685.55'
L3	N01°45'47"E 566.84'	L21	N50°00'01"E 673.23'
L6	(S87°26'15"W 936.64' R1)	L22	S33°01'05"E 324.83'
L7	(N00°04'56"E 1310.94' R1)	L23	N70°14'20"E 676.79'
L8	(N87°17'29"E 1317.26' R1)	L24	S65°51'38"E 287.44'
L9	(S00°39'04"W 1314.95' R1)	L25	S15°34'18"E 1006.86'
L10	(S89°50'22"E 828.78' R1)	L26	S69°07'54"E 850.44'
L11	S44°42'18"E 211.06'	L27	S33°12'46"E 519.26'
L12	S03°47'16"W 384.87'	L28	S03°23'25"E 1319.33'
L13	S27°09'25"E 211.88'	L29	S32°39'52"E 1212.56'
L14	N72°53'12"E 250.48'	L30	N86°20'43"E 1679.02'
L15	S68°30'21"E 233.10'	L31	S38°28'05"E 1382.34'
L16	S26°56'01"E 162.51'	L32	S75°23'08"E 643.17'
L17	S72°41'26"E 553.34'	L33	S43°40'24"E 739.04'
L18	N78°40'58"E 578.66'		

TITLE: **LOT LINE ADJUSTMENT 18LA01**

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EXHIBIT "B"

LINE DATA:

L6 (S87°26'15"W 936.64' R1)
L7 (N00°04'56"E 1310.94' R1)
L8 (N87°17'29"E 1317.26' R1)
L9 (S00°39'04"W 1314.95' R1)
L10 (S89°50'22"E 828.78' R1)
L11 S44°42'18"E 211.06'
L12 S03°47'16"W 384.87'
L13 S27°09'25"E 211.88'
L14 N72°53'12"E 250.48'
L15 S68°30'21"E 233.10'
L16 S26°56'01"E 162.51'
L17 S72°41'26"E 553.34'
L18 N78°40'58"E 578.66'
L19 S61°11'42"E 189.74'
L20 S30°32'30"E 685.55'
L34 (N86°04'34"E 1128.23' R1)

RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

L8
L7
01-CC-11
INSTR NO.
L6
L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
SEE PAGE 8
PARCEL 3
(N53°30'12"E 2228.13' R1)
2001-0011357 O.R.
(2248.93' R1)
L34
(3136.24' R1)
(N86°04'34"E 4264.47' R1)
P.O.B. OF EXCEPTION NO. 2
TO PARCEL 1 & OF EXCEPTION
TO PARCEL 3
01-CC-07
INSTR NO.
2001-0011349 O.R.
(N00°24'31"E 2605.62' R1)
(5162.74' R1)
(N55°51'37"E 7411.67' R1)
SEE PAGE 8
PARCEL 1
N55°51'37"E 5897.19' (5897.20' R1)
01-CC-17
INSTR NO. 2001-0011357 O.R.
P.O.B. OF EXCEPTION NO. 1
TO PARCEL 1 & OF PARCEL 2
SEE PAGE 10
N89°26'40"W 8967.06'
S89°40'02"E 11733.47'
N00°25'50"E 4652.89'
PARCEL 2
SEE PAGE 10

TITLE: **LOT LINE ADJUSTMENT 18LA01**

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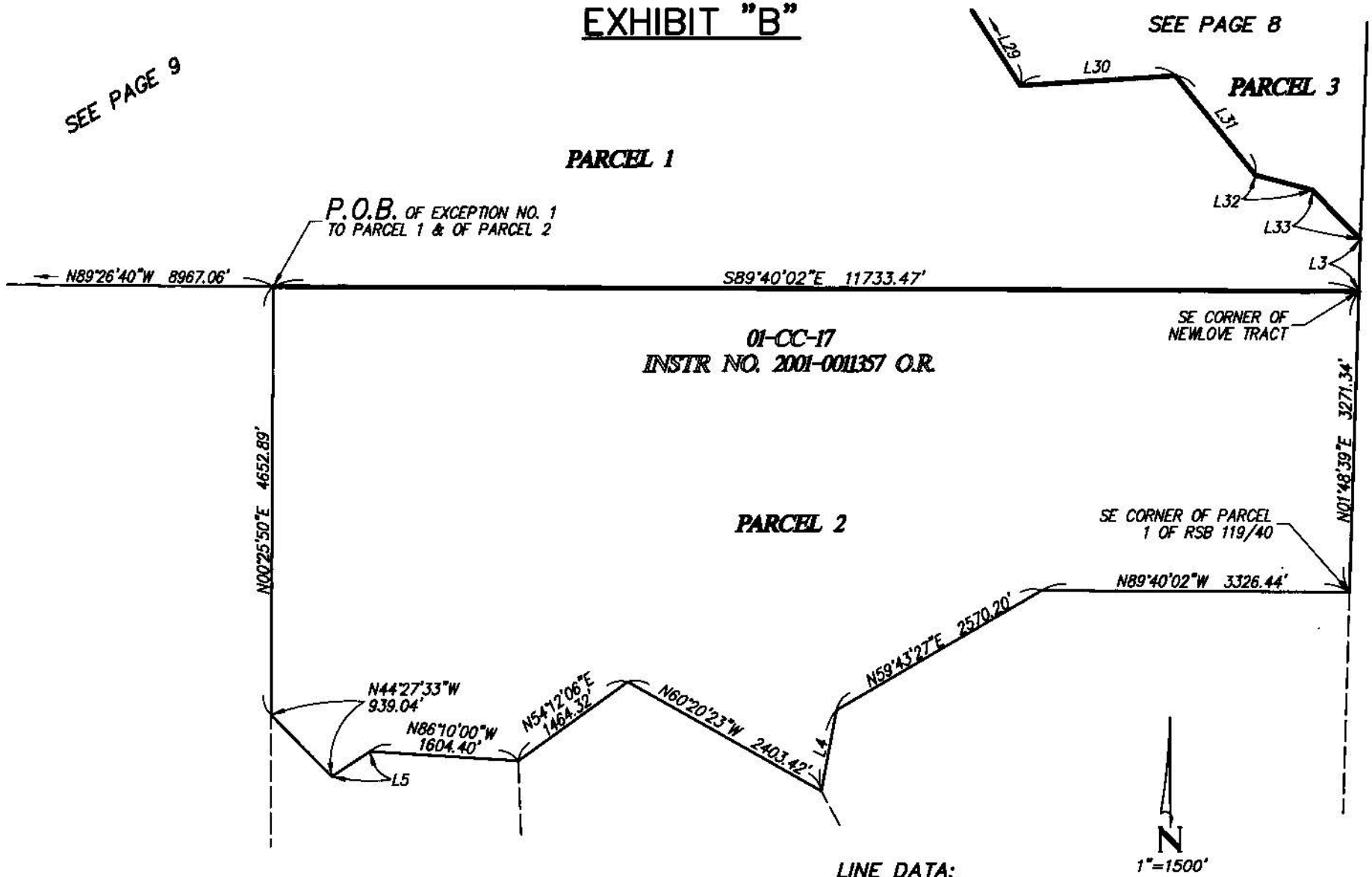
N
1"=1500'

LEGEND:

PARCEL LINE BEING ADJUSTED
PARCEL LINE ADJUSTED
LOT LINE REMAINING

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EXHIBIT "B"



NOTE:

ALL BEARINGS AND DISTANCES ARE RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED.

LEGEND:

- PARCEL LINE BEING ADJUSTED
- PARCEL LINE ADJUSTED
- LOT LINE REMAINING

LINE DATA:

L3	N01°45'47"E	566.84'
L4	N10°43'29"E	892.87'
L5	N56°59'54"E	498.41'
L29	S32°39'52"E	1212.56'
L30	N86°20'43"E	1679.02'
L31	S38°28'05"E	1382.34'
L32	S75°23'08"E	643.17'
L33	S43°40'24"E	739.04'

TITLE: **LOT LINE ADJUSTMENT 18LA01**

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www.ldccivilengineers.com

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Detailed Facility Report

Facility Summary

ORCUTT HILL FACILITIES

1555 ORCUTT HILL ROAD, ORCUTT, CA 93455

FRS (Facility Registry Service) ID: 110070094695

EPA Region: 09

Latitude: 34.83387

Longitude: -120.40539

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Expired (CAZ458547)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070094695					N	34.83387	-120.40539
ICIS-NPDES	CWA	CAZ458547	Non-Major: General Permit Covered Facility	Expired	Industrial Stormwater	06/30/2020	N	34.83387	-120.40539

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070094695	ORCUTT HILL FACILITIES	1555 ORCUTT HILL ROAD, ORCUTT, CA 93455	Santa Barbara County

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-NPDES	CWA	CAZ458547	ORCUTT HILL FACILITIES	1555 ORCUTT HILL ROAD, ORCUTT, CA 93455	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	CAZ458547	1311	Crude Petroleum And Natural Gas

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
Santa Ynez Reservation	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California	100000260	24

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	CAZ458547	No	03/31/2025	0	07/04/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: CAZ458547)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
180600090103	Harris Canyon	--	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	Yes	1-Hour Ozone (1979)
Lead	No	--	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	45
Population Density	14/sq.mi.
Housing Units in Area	19
Percent People of Color	40%
Households in Area	18
Households on Public Assistance	1
Persons With Low Income	5
Percent With Low Income	11%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.83387
Center Longitude	-120.40539
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1 (5.88%)
$15,000 - $25,000	0 (0%)
$25,000 - $50,000	2 (11.76%)
$50,000 - $75,000	1 (5.88%)
Greater than $75,000	13 (76.47%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	3 (7%)
Minors 17 years and younger	10 (22%)
Adults 18 years and older	36 (80%)
Seniors 65 years and older	10 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	34 (76%)
African-American	0 (0%)
Hispanic-Origin	13 (29%)
Asian	3 (7%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (2%)
Other/Multiracial	4 (9%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	2 (6.06%)
9th through 12th Grade	2 (6.06%)
High School Diploma	6 (18.18%)
Some College/2-year	8 (24.24%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	12 (36.36%)

Detailed Facility Report

Facility Summary

GOLDEN STATE WATER COMPANY

1555 ORCUTT HILL RD, SANTA MARIA, CA 93455

FRS (Facility Registry Service) ID: 110070578316

EPA Region: 09

Latitude: 34.831956

Longitude: -120.414141

Locational Data Source: RCRAINFO

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active Other, (CAC003013644)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070578316					N	34.831956	-120.414141
RCRAInfo	RCRA	CAC003013644	Other	Active (H)			N	34.831956	-120.414141

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070578316	GOLDEN STATE WATER COMPANY	1555 ORCUTT HILL RD, SANTA MARIA, CA 93455	Santa Barbara County
RCRAInfo	RCRA	CAC003013644	GOLDEN STATE WATER COMPANY	1555 ORCUTT HILL RD, SANTA MARIA, CA 93455	Santa Barbara County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	CAC003013644	221310	Water Supply and Irrigation Systems

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
Santa Ynez Reservation	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California	100000260	24

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	CAC003013644	No	07/05/2025	0	07/04/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: CAC003013644)			07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	Yes	1-Hour Ozone (1979)
Lead	No	--	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	39
Population Density	13/sq.mi.
Housing Units in Area	17
Percent People of Color	41%
Households in Area	16
Households on Public Assistance	1
Persons With Low Income	4
Percent With Low Income	10%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.831956
Center Longitude	-120.414141
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1 (6.25%)
$15,000 - $25,000	0 (0%)
$25,000 - $50,000	2 (12.5%)
$50,000 - $75,000	1 (6.25%)
Greater than $75,000	12 (75%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	3 (8%)
Minors 17 years and younger	9 (23%)
Adults 18 years and older	31 (79%)
Seniors 65 years and older	9 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	30 (77%)
African-American	0 (0%)
Hispanic-Origin	11 (28%)
Asian	3 (8%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (3%)
Other/Multiracial	4 (10%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	2 (6.9%)
9th through 12th Grade	2 (6.9%)
High School Diploma	5 (17.24%)
Some College/2-year	7 (24.14%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	11 (37.93%)

ENVIRONMENTAL LIEN AND AUL REPORT TO 1980

Order Number:
79-412820-47

Subject Property:
NOT REPORTED
SANTA MARIA, CA 93455

Effective:
07/01/2025

Completed:
07/08/2025

AFX RESEARCH, LLC

A Quarter-Century of Title Document Research Expertise

999 Monterey St. Suite 380, San Luis Obispo, CA 93401

(877) 848-5337 / www.afxllc.com

Order #: 79-412820-47 | Completed: 07/08/2025 | Effective: 07/01/2025

SOURCES SEARCHED

Source 1:	SANTA BARBARA COUNTY RECORDER'S OFFICE
Source 2:	SANTA BARBARA COUNTY ASSESSOR'S OFFICE
Source 3:	CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Source 4:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Examiner Notes:	PUBLIC RECORDS OF SANTA BARBARA COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1980 TO JULY 1, 2025, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED. **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Current Owner(s):	ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY
Street Address:	NOT REPORTED
City, State Zip Code:	SANTA MARIA, CA 93455
APN/Parcel/PIN:	101-020-087
County:	SANTA BARBARA
Legal Description:	AS RECORDED IN THE DEED ATTACHED.

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

DEED CHAIN

Instrument 1. **GRANT DEED**

Date Recorded: 06/21/2021 Instrument: 2021-0046046
Dated: 04/29/2021
Grantor(s): ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY
Grantee(s): ORCUTT FEE LLC, A DELAWARE LIMITED LIABILITY COMPANY
Notes: BY PACIFIC COAST LAND COMPANY, LLC AND PACIFIC COAST ENERGY COMPANY LP, MANAGING MEMBERS; PARCEL 3 OF LLA 2021-46048

Instrument 2. **QUIT CLAIM DEED**

Date Recorded: 09/29/2005 Instrument: 2005-0061316
Grantor(s): BREITBURN ENERGY COMPANY LP
Grantee(s): ORCUTT FEE LLC

Instrument 3. **DEED**

Date Recorded: 10/05/2004 Instrument: 2004-0106748
Grantor(s): ERG OPERATING COMPANY, INC.
Grantee(s): BREITBURN ENERGY COMPANY LP

Instrument 4. **WARRANTY DEED**

Date Recorded: 09/03/2003 Instrument: 2003-0119941
Dated: 08/25/2003
Grantor(s): NUEVO ENERGY COMPANY, A DELAWARE CORPORATION
Grantee(s): ERG OPERATING COMPANY, INC., A TEXAS CORPORATION

Instrument 5. **DEED**

Date Recorded: 04/10/1996 Instrument: 96-21714
Grantor(s): UNION OIL COMPANY OF CALIFORNIA, AS SUCCESSOR BY MERGER TO COLLIER CARBON AND CHEMICAL CORPORATION, FKA R. T. COLLIER CORPORATION BY SUCCESSOR BY MERGER TO BREA CHEMICALS, INC, AND UNOCAL CALIFORNIA PIPELINE COMPANY
Grantee(s): NUEVO ENERGY COMPANY

Instrument 6. **QUIT CLAIM DEED**

Date Recorded: 10/04/1988 Instrument: 88-063655
Grantor(s): UNION OIL COMPANY OF CALIFORNIA, BY ROBERT L. BLETCHER, AS REFEREE IN PARTITION; WELLS FARGO BANK, ET AL
Grantee(s): UNION OIL COMPANY OF CALIFORNIA
Notes: THIS IS THE OLDEST DEED OF RECORD FOUND WITHIN SCOPE OF SEARCH.

MISCELLANEOUS INSTRUMENTS

Instrument 1. **NAME CHANGE AMENDMENT**

Date Recorded: 08/12/2022 Instrument: 2022-0036007
Dated: 01/05/2022
1st Party: ORCUTT FEE LLC
2nd Party: SOLSTRA COMMUNITIES CALIFORNIA LLC
Notes: NO DEED FOUND CHANGING TITLE DOCUMENTS /OWERNSHIP

Instrument 2. **LOT LINE ADJUSTMENT**

Date Recorded: 06/21/2021 Instrument: 2021-0046048
Dated: 05/20/2021
1st Party: ORCUTT FEE LLC

Instrument 3. **DETAILED FACILITY REPORT**

Date Recorded: NA Instrument: NA
1st Party: ORCUTT HILL FACILITIES
2nd Party: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Notes: FRS ID110070094695

Instrument 4. **DETAILED FACILITY REPORT**

Date Recorded: NA Instrument: NA
1st Party: GOLDEN STATE WATER COMPANY
2nd Party: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Notes: FRS ID110070578316

THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-412820-47

Our Environmental Lien and AUL report to 1980 provides a summary of recorded information on a specific property from January 1st, 1980 to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership, links the recorded transactions which pass title from one person (and/or entity) to another, and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from January 1st, 1980 forward. The scope of this search is compliant with ASTM 1527-21 standards.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Historical property transfer information from 1980 forward (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

DISCLAIMER

This report was prepared for the intended use of AFX Research, LLC (AFX) and client, exclusively. This report is not a guarantee of title, nor a commitment to insure, nor a policy of title insurance. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. AFX Research, LLC specifically disclaims the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

DEEDS EXHIBIT

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

DOC# 2021-0046046

06/21/2021 10:13 AM	Titles: 1	Pages: 3
SBC	Fees	$20.00
	Taxes	$0.00
E29	CA SB2 Fee	$75.00
	Total	$95.00

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

Alicia Harrison
Brownstein Hyatt Farber Schreck
1021 Anacapa Street, 2nd Floor
Santa Barbara, CA 93101

APNs: A portion of 101-020-074
(Case number 18LLA-00000-00001)

GRANT DEED

The undersigned Grantor(s) declares that the Documentary Transfer Tax consideration is #0, City Transfer Tax is **$NONE**, Surveyor Monument Fee is **$NONE** based on:

[x] computed on the consideration or full value of property conveyed, OR
[ ] computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale;
[x] unincorporated area; and
[x] Exempt from transfer tax; Reason: **Lot Line Adjustment**

ORCUTT FEE LLC, a Delaware Limited Liability Company

does hereby grant to

ORCUTT FEE LLC, a Delaware Limited Liability Company

The real property located in the unincorporated area of the County of Santa Barbara, State of California, described in Exhibit "A" attached hereto and by reference made part hereof.

This deed arises from the Lot Line Adjustment 18LLA-00000-00001 and is intended to create a single legal parcel within the meaning of California Civil Code Section 1093.

Executed this _____ day of _____, 20____

Owner: Orcutt Fee LLC, a Delaware Limited Liability Company

By: Pacific Coast Land Company LLC, a Delaware Limited Liability Company
Its Managing Member

By: Pacific Coast Energy Company LP, a Delaware Limited Partnership
Its Managing Member

By: _____ Date: 5/29/2021
Robert Foss, General Partner

Orcutt Fee, LLC
1555 Orcutt Hills Rd.
Orcutt, CA 93455

LLA_2018 Tax statement mail to:

Notary

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

THE STATE OF TEXAS §
§
COUNTY OF Harris §

This instrument was acknowledged before me on the 29th of April, 2021, by Robert Foss, in his capacity as General Partner of Pacific Coast Energy Company LP, a Delaware limited partnership, in its capacity as the Managing Member of Pacific Coast Land Company LLC, a Delaware limited liability company, in its capacity as the Managing Member of ORCUTT FEE LLC, a Delaware limited liability company, on behalf of said limited liability company.

[SEAL]

KATERINA HUBACKOVA
Notary Public, State of Texas
Comm. Expires 03-04-2025
Notary ID 132956167

Katerina

Notary Public, State of Texas

EXHIBIT "A"

18LLA-00000-00001
LEGAL DESCRIPTION

PARCEL 3

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01-CC-17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001-0011357 OF OFFICIAL RECORDS.

EXCEPTING FROM SAID PORTION OF PARCEL 1, THAT PORTION LYING SOUTHWESTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST OF SAN BERNARDINO BASE AND MERIDIAN, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID POTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06 FEET; THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25 EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

END OF DESCRIPTION

PREPARED BY ME OR UNDER MY SUPERVISION:



12/14/2020

MICHAEL NAVARRO DATE
P.L.S. NO. 7848 License expires 12/31/2022
LLA_2018

MISCELLANEOUS INSTRUMENTS EXHIBIT

AFX
RELIABLE PROPERTY RESEARCH

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

RECORDING REQUESTED BY
AND WHEN RECORDED RETURN TO:

Gisele M. Goetz
HOLLISTER & BRACE
P. O. Box 630
Santa Barbara, CA 93102
(805) 963-6711

DOC# 2022-0036007

08/12/2022 04:18 PM	Titles: 1	Pages: 4	
SBC	Fees		$25.00
	Taxes		$0.00
E24	CA SB2 Fee		$75.00
	Total		$100.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

NAME CHANGE AMENDMENT

FROM ORCUTT FEE LLC

TO

SOLSTRA COMMUNITIES CALIFORNIA LLC

California Secretary of State

Business Programs Division
1500 11th Street, Sacramento, CA 95814

Request Type: Certified Copies
Entity Name: SOLSTRA COMMUNITIES CALIFORNIA LLC
Formed In: DELAWARE
Entity No.: 200517510055
Entity Type: Limited Liability Company - Out of State

Issuance Date: 08/08/2022
Copies Requested: 1
Receipt No.: 002111515
Certificate No.: 035695024

Document Listing

Reference #	Date Filed	Filing Description	Number of Pages
B0921-1641	07/25/2022	Amendment - Name Change Only	2

** **** ****** ******** End of list ******** ****** **** **

I, SHIRLEY N. WEBER, PH.D., California Secretary of State, do hereby certify on the Issuance Date, the attached document(s) referenced above are true and correct copies and were filed in this office on the date(s) indicated above.

IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California on August 08, 2022.

SHIRLEY N. WEBER, PH.D.
Secretary of State

To verify the issuance of this Certificate, use the Certifcate No. above with the Secretary of State Certification Verification Search available at **biz**fileOnline.sos.ca.gov.

B0921-1641 07/25/2022 5:00 PM Received by California Secretary of State

Certificate Verification No.: 035695024 Date: 08/08/2022

Secretary of State
Foreign Limited Liability Company (LLC)
Name Change Amendment

LLC-6

P

For Office Use Only

-FILED-

File No.: BA20220634274

Date Filed: 7/25/2022

Must be submitted with a current certificate evidencing the name change issued by the government agency where the LLC was formed.

Filing Fee – $30.00

Certification Fee (Optional) – **$5.00**

Note: You must file a Statement of Information (Form LLC-12) to change the LLC's *business address(es), or to change the name or address of the LLC's agent for* service of process. Statements of Information (Form LLC-12) can be filed online at bizfileOnline.sos.ca.gov.

Above Space For Office Use Only

1. LLC Exact Name Used in California (Enter the name used in California exactly as listed on the records of the California Secretary of State.)

ORCUTT FEE LLC

2. LLC 12-Digit (File) Entity Number (Enter the exact 12-digit Entity (File) Number issued by the California Secretary of State.)

2	0	0	5	1	7	5	1	0	0	5	5

3. New LLC Name in the State, Country, or Other Place of LLC Formation (If the LLC changed its name in the jurisdiction of formation, list the new LLC name as listed on your attached certificate evidencing the name change.)

Solstra Communities California LLC

4. California Alternate Name, If Required (Complete either 4a, 4b, 4c)

4a. List an alternate name to be used in California if: (1) the LLC name in Item 3 does not comply with California naming requirements or (2) you only are filing this form to change an existing alternate name used in California. List the alternate name exactly as it is to appear on the records of the California Secretary of State.

4b. Check this box if you completed Item 3, above **and** if applicable. If you check this box, do not complete Item 4a above or 4c below.

☐ This LLC registered in California before January 1, 2014; currently transacts intrastate business in California under the alternate name listed in Item 1 above; and upon this filing, will continue to transact intrastate business in California under the alternate name listed in Item 1 above.

4c. If you check this box, do not complete Item 4a or 4b above.

☐ Check this box if you are relinquishing the California alternate name.

Signature

By signing, I affirm under penalty of perjury that the information herein is true and correct and that I am authorized to sign on behalf of the foreign LLC.

Additional signatures set forth on attached pages, if any, are incorporated herein by reference and made part of this Form LLC-6. (All attachments should be 8 ½ x 11", one-sided, legible and clearly marked as an attachment to this Form LLC-6.)

Signature

Robert Foss, CFO

Type or Print Name

B0921-1642 07/25/2022 5:00 PM Received by California Secretary of State

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "ORCUTT FEE LLC", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "SOLSTRA COMMUNITIES CALIFORNIA LLC" ON THE FIFTH DAY OF JANUARY, A.D. 2022, AT 2:14 O`CLOCK P.M.

Jeffrey W. Bullock, Secretary of State

3981817 8320
SR# 20223044249

Authentication: 203968900
Date: 07-20-22

You may verify this certificate online at corp.delaware.gov/authver.shtml

Certificate Verification No.: 035695024 Date: 08/08/2022

Recorded in Official Records
County of Santa Barbara
Joseph E. Holland
County Clerk-Recorder

DOC# 2021-0046048

06/21/2021 10:13 AM	Titles: 1	Pages: 10	
SBC	Fees		$51.00
	Taxes		$0.00
E29	CA SB2 Fee		$0.00
	Total		$51.00

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

Alicia Harrison
Brownstein Hyatt Farber Schreck
1021 Anacapa Street, 2nd Floor
Santa Barbara, CA 93101

APNs: 101-020-041, 101-020-043 & 101-020-074
Lot Line Adjustment No. 018LLA-00000-00001

Lot Line Adjustment 18LLA-00000-00001

CERTIFICATE OF CONFORMITY

I hereby certify that Lot Line Adjustment No. **18LLA-00000-00001**, described in the concurrent documents together with the conditions attached appear to be in conformity with the provisions of Article III of Chapter 21 (Section 21-90 et seq.) of the County Code of Santa Barbara County and the approval required therein.

ASjevremovic 5/20/2021

Aleksandar Jevremovic Date
County Surveyor
L.S. 8378



CLERK OF THE BOARD'S STATEMENT

I, Mona Miyasato, Clerk of the Board of Supervisors of Santa Barbara County, do hereby state that pursuant to State Government Code Section 66412(d) (State Subdivision Map Act) that the real property taxes on the property involved in this Lot Line Adjustment have been paid or bonded for unless such bond has been waived.

Mona Miyasato
Clerk of the Board of Supervisors

By: Chelsea Lenzi 5/20/21
Deputy Date



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of SANTA BARBARA

On 5-20-2021 before me, Chelsea Lenzi, a Deputy Clerk, personally appeared County Surveyor Aleksandar Jevremovic, who proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Chelsea Lenzi

(Seal)

California Civil Code section 1189

NOTES

Deeds are recorded concurrently as:
Instrument No. 2021 - 0046044 Official Records
Instrument No. 2021 - 0046045 Official Records
Instrument No. 2021 - 0046046 Official Records

Owners Certificate(s) and Certificate(s) of Holders of Record Title Interest is/are recorded concurrently as:
Instrument No. 2021 - 0046047 Official Records
Reservation of Access Easement Agreement as Inst. No. 2021 - 0046050 Official Records
This document is subject to certain conditions and information included in a "NOTICE" and recorded concurrently as Instrument No. 2021 - 0046049 Official Records

Legal descriptions reflecting the parcels reconfigured per this Lot Line Adjustment 18LLA-00000-00001 are described as Parcel 1, Parcel 2 and Parcel 3, attached hereto and incorporated herein as Exhibit A.

RECORD OWNERS

Title to the estate or interest in the land at the Date hereof is vested in:
Orcutt Fee LLC, a Delaware Limited Liability Company.

APNs: 101-020-041, 101-020-043 & 101-020-074

Lot Line Adjustment 18LLA-00000-00001

ATTACHMENTS

Exhibit "A" – Legal Description for Parcel 1, Parcel 2, and Parcel 3
Exhibit "B" – Exhibit Map for Parcel 1, Parcel 2, and Parcel 3

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

PARCEL 1

LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST AND LOTS 1, 4, 5 AND 6 OF SECTION 24, TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–11 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001–0011351 OF OFFICIAL RECORDS.

TOGETHER WITH THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER AND LOTS 1, 2, 3 AND 4 OF SECTION 25, IN TOWNSHIP 9 NORTH, RANGE 34 WEST OF SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN THE DISTRICT LAND OFFICE, AND BEING THAT PARCEL DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–07 RECORDED FEBRUARY 16, 2001 AS INSTRUMENT NO. 2001–0011349 OF OFFICIAL RECORDS.

ALSO TOGETHER WITH THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001–0011357 OF OFFICIAL RECORDS.

EXCEPTION NO. 1:

EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

EXCEPTION NO. 2:

ALSO EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING NORTHEASTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF SAID LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID PORTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

FEET; THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25"EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

PARCEL 2

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF COMPLIANCE 01–CC–17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001–0011357 OF OFFICIAL RECORDS, LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE EASTERLY TERMINUS OF THE MOST WESTERLY SOUTHERLY LINE OF SAID PORTION OF PARCEL 1 SHOWN WITH A CALCULATED BEARING AND DISTANCE OF NORTH 89°26'40" WEST 8967.06 FEET ON SAID RECORD OF SURVEY; THENCE SOUTH 89°40'02" EAST 11733.47 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°48'39" EAST 3271.34 FEET FROM THE SOUTHEAST CORNER OF SAID PORTION OF PARCEL 1, SAID POINT ALSO BEING THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

PARCEL 3

THAT PORTION OF PARCEL 1, AS SHOWN ON A RECORD OF SURVEY FILED APRIL 20, 1988, IN BOOK 119, PAGE 40 OF RECORDS OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, THAT LIES SOUTHWESTERLY OF THE SOUTHWESTERLY LINES OF THE LAND GRANTED TO THE STATE OF CALIFORNIA BY A DEED RECORDED DECEMBER 22, 1955 IN BOOK 1352, PAGE 468 OF OFFICIAL RECORDS, SAID PORTION OF PARCEL 1 BEING DESCRIBED IN CERTIFICATE OF

EXHIBIT "A"

LOT LINE ADJUSTMENT
LEGAL DESCRIPTION

COMPLIANCE 01-CC-17 RECORDED FEBRUARY 16, 2001 AS DOCUMENT NUMBER 2001-0011357 OF OFFICIAL RECORDS.

EXCEPTING FROM SAID PORTION OF PARCEL 1 THAT PORTION LYING SOUTHWESTERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE MOST EASTERLY CORNER OF LOT 7 OF SECTION 19, TOWNSHIP 9 NORTH, RANGE 33 WEST OF SAN BERNARDINO BASE AND MERIDIAN, SAID MOST EASTERLY CORNER ALSO BEING A POINT ON THE NORTHWESTERLY LINE OF SAID PORTION OF PARCEL 1; THENCE LEAVING SAID NORTHWESTERLY LINE, SOUTH 44°42'18" EAST 211.06 FEET; THENCE SOUTH 03°47'16" WEST 384.87 FEET; THENCE SOUTH 27°09'25" EAST 211.88 FEET; THENCE NORTH 72°53'12" EAST 250.48 FEET; THENCE SOUTH 68°30'21" EAST 233.10 FEET; THENCE SOUTH 26°56'01" EAST 162.51 FEET; THENCE SOUTH 72°41'26" EAST 553.34 FEET; THENCE NORTH 78°40'58" EAST 578.66 FEET; THENCE SOUTH 61°11'42" EAST 189.74 FEET; THENCE SOUTH 30°32'30" EAST 685.55 FEET; THENCE NORTH 50°00'01" EAST 673.23' FEET; THENCE SOUTH 33°01'05" EAST 324.83 FEET; THENCE NORTH 70°14'20" EAST 676.79 FEET; THENCE SOUTH 65°51'38" EAST 287.44 FEET; THENCE SOUTH 15°34'18" EAST 1006.86 FEET; THENCE SOUTH 69°07'54" EAST 850.44 FEET; THENCE SOUTH 33°12'46" EAST 519.26 FEET; THENCE SOUTH 03°23'25" EAST 1319.33 FEET; THENCE SOUTH 32°39'52" EAST 1212.56 FEET; THENCE NORTH 86°20'43" EAST 1679.02 FEET; THENCE SOUTH 38°28'05" EAST 1382.34 FEET; THENCE SOUTH 75°23'08" EAST 643.17 FEET; THENCE SOUTH 43°40'24" EAST 739.04 FEET TO A POINT ON THE EAST LINE OF SAID PORTION OF PARCEL 1, SAID POINT BEING NORTH 01°45'47" EAST 566.84' FEET FROM THE SOUTHEAST CORNER OF THE NEWLOVE TRACT AND SHOWN AS MARKED BY A 2" CAPPED PIPE MARKED "S.E. CORNER NEWLOVE" ON SAID RECORD OF SURVEY.

EXHIBIT "B" ATTACHED HERETO AND MADE A PART HEREOF.

DATA IN THESE DESCRIPTIONS ARE BASED ON RECORD DATA AS NOTED ON ATTACHED EXHIBIT "B".

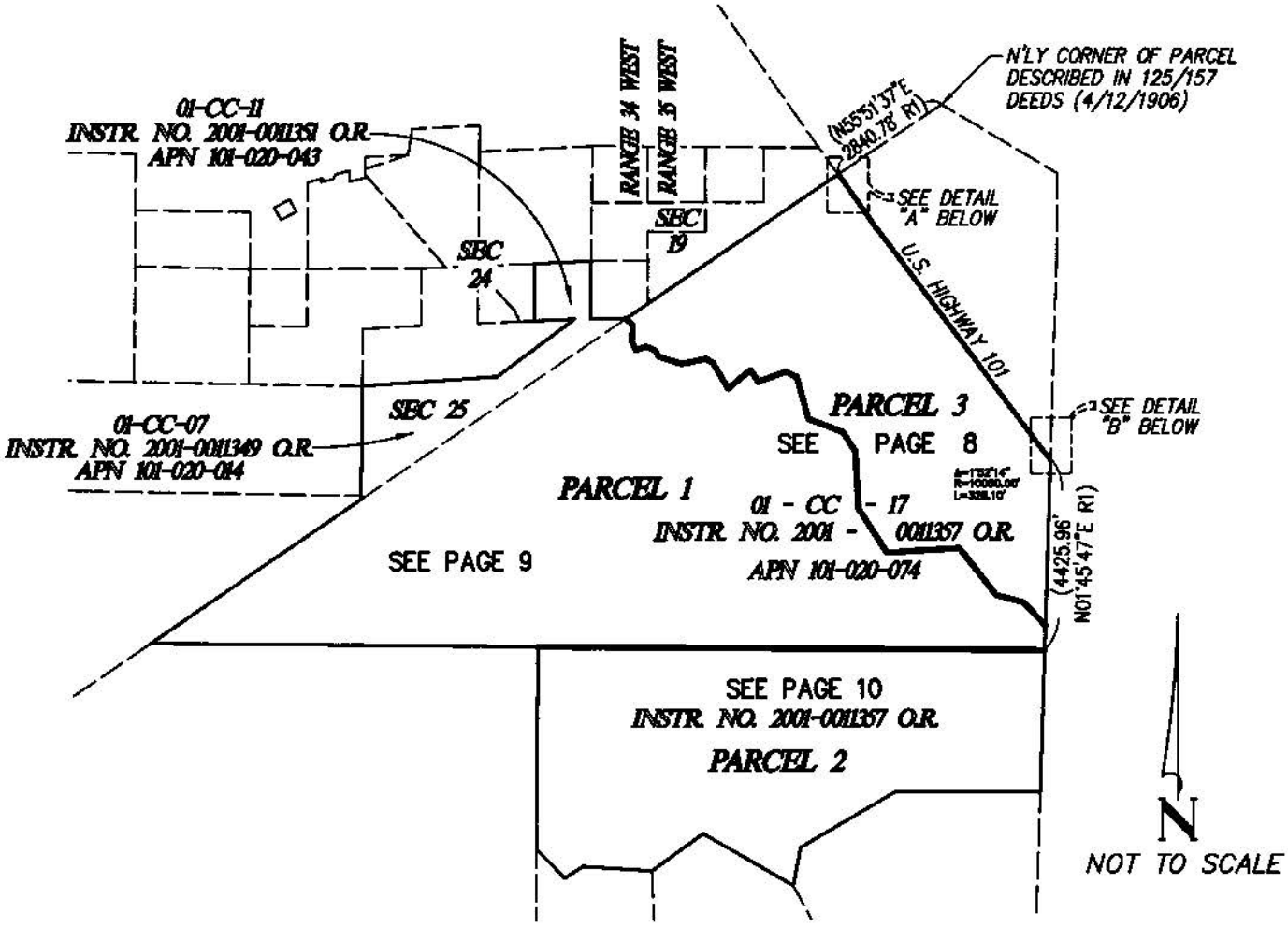
PREPARED UNDER MY SUPERVISION:

12/14/2020

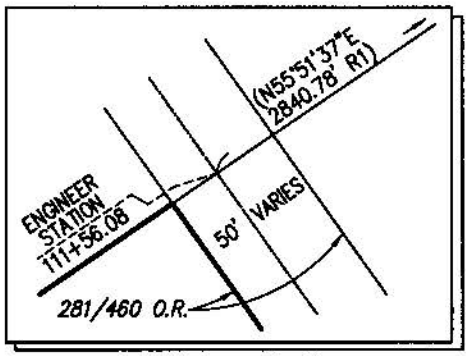
MICHAEL NAVARRO, L.S. 7848 DATE
LICENSE EXPIRES 12/21/2022



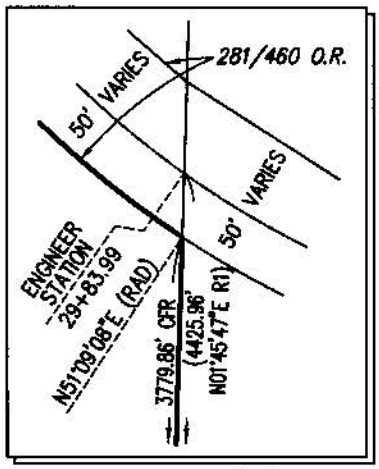
EXHIBIT "B"







DETAIL "A"
NOT TO SCALE



DETAIL "B"
NOT TO SCALE

LEGEND:

- PARCEL LINE BEING ADJUSTED
- ADJUSTED PARCEL LINE
- PARCEL LINES REMAINING
- CFR CALCULATED FROM RECORD

RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD OR CALCULATED FROM RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

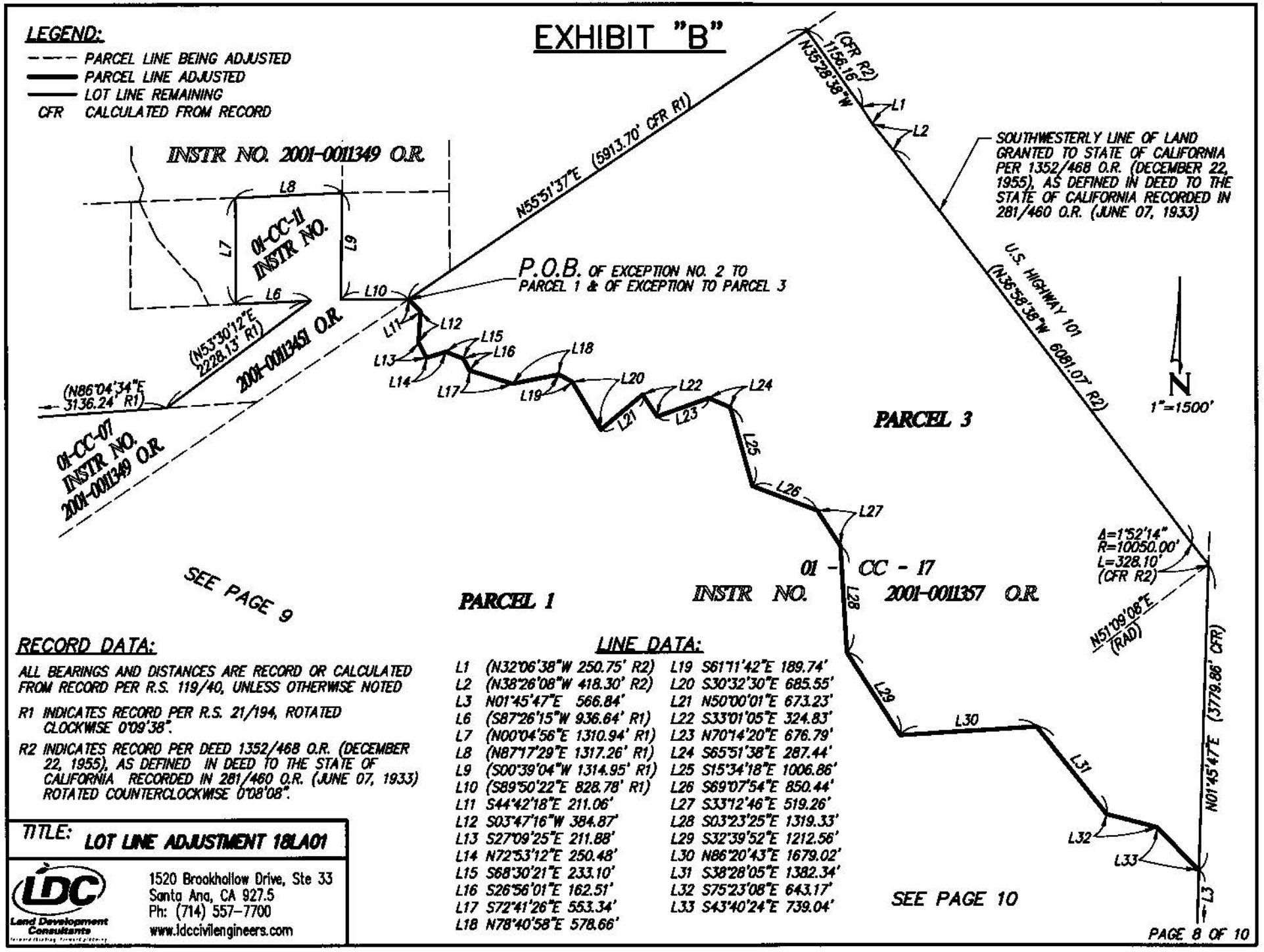
R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

R2 INDICATES RECORD PER DEED 1352/468 O.R. (DECEMBER 22, 1955) AS DEFINED DEFINED IN DEED TO THE STATE OF CALIFORNIA RECORDED IN 281/460 O.R. (JUNE 07, 1933)

TITLE: **LOT LINE ADJUSTMENT 18LA01**

LDC Land Development Consultants
1520 Brookhollow Drive, Ste 33
Santa Ana, CA 927.5
Ph: (714) 557-7700
www.ldccivilengineers.com

EXHIBIT "B"



RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD OR CALCULATED FROM RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

R2 INDICATES RECORD PER DEED 1352/468 O.R. (DECEMBER 22, 1955), AS DEFINED IN DEED TO THE STATE OF CALIFORNIA RECORDED IN 281/460 O.R. (JUNE 07, 1933) ROTATED COUNTERCLOCKWISE 0°08'08".

LINE DATA:

L1	(N32°06'38"W 250.75' R2)	L19	S61°11'42"E 189.74'
L2	(N38°26'08"W 418.30' R2)	L20	S30°32'30"E 685.55'
L3	N01°45'47"E 566.84'	L21	N50°00'01"E 673.23'
L6	(S87°26'15"W 936.64' R1)	L22	S33°01'05"E 324.83'
L7	(N00°04'56"E 1310.94' R1)	L23	N70°14'20"E 676.79'
L8	(N87°17'29"E 1317.26' R1)	L24	S65°51'38"E 287.44'
L9	(S00°39'04"W 1314.95' R1)	L25	S15°34'18"E 1006.86'
L10	(S89°50'22"E 828.78' R1)	L26	S69°07'54"E 850.44'
L11	S44°42'18"E 211.06'	L27	S33°12'46"E 519.26'
L12	S03°47'16"W 384.87'	L28	S03°23'25"E 1319.33'
L13	S27°09'25"E 211.88'	L29	S32°39'52"E 1212.56'
L14	N72°53'12"E 250.48'	L30	N86°20'43"E 1679.02'
L15	S68°30'21"E 233.10'	L31	S38°28'05"E 1382.34'
L16	S26°56'01"E 162.51'	L32	S75°23'08"E 643.17'
L17	S72°41'26"E 553.34'	L33	S43°40'24"E 739.04'
L18	N78°40'58"E 578.66'		

TITLE: **LOT LINE ADJUSTMENT 18LA01**

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Santa Ana, CA 927.5
Ph: (714) 557-7700
www.ldccivilengineers.com

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EXHIBIT "B"

LINE DATA:

L6 (S87°26'15"W 936.64' R1)
L7 (N00°04'56"E 1310.94' R1)
L8 (N87°17'29"E 1317.26' R1)
L9 (S00°39'04"W 1314.95' R1)
L10 (S89°50'22"E 828.78' R1)
L11 S44°42'18"E 211.06'
L12 S03°47'16"W 384.87'
L13 S27°09'25"E 211.88'
L14 N72°53'12"E 250.48'
L15 S68°30'21"E 233.10'
L16 S26°56'01"E 162.51'
L17 S72°41'26"E 553.34'
L18 N78°40'58"E 578.66'
L19 S61°11'42"E 189.74'
L20 S30°32'30"E 685.55'
L34 (N86°04'34"E 1128.23' R1)

RECORD DATA:

ALL BEARINGS AND DISTANCES ARE RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED

R1 INDICATES RECORD PER R.S. 21/194, ROTATED CLOCKWISE 0°09'38".

L8
L7
01-CC-11
INSTR NO.
L6
L9
L10
L11
L12
L13
L14
L15
L16
L17
L18
L19
L20
SEE PAGE 8
PARCEL 3
(N53°30'12"E 2228.13' R1)
2001-0011357 O.R.
(2248.93' R1)
L34
(3136.24' R1)
(N86°04'34"E 4264.47' R1)
P.O.B. OF EXCEPTION NO. 2
TO PARCEL 1 & OF EXCEPTION
TO PARCEL 3
01-CC-07
INSTR NO.
2001-0011349 O.R.
(N00°24'31"E 2605.62' R1)
(5162.74' R1)
(N55°51'37"E 7411.67' R1)
SEE PAGE 8
PARCEL 1
N55°51'37"E 5897.19' (5897.20' R1)
01-CC-17
INSTR NO. 2001-0011357 O.R.
P.O.B. OF EXCEPTION NO. 1
TO PARCEL 1 & OF PARCEL 2
SEE PAGE 10
N89°26'40"W 8967.06'
S89°40'02"E 11733.47'
N00°25'50"E 4652.89'
PARCEL 2
SEE PAGE 10

TITLE: **LOT LINE ADJUSTMENT 18LA01**

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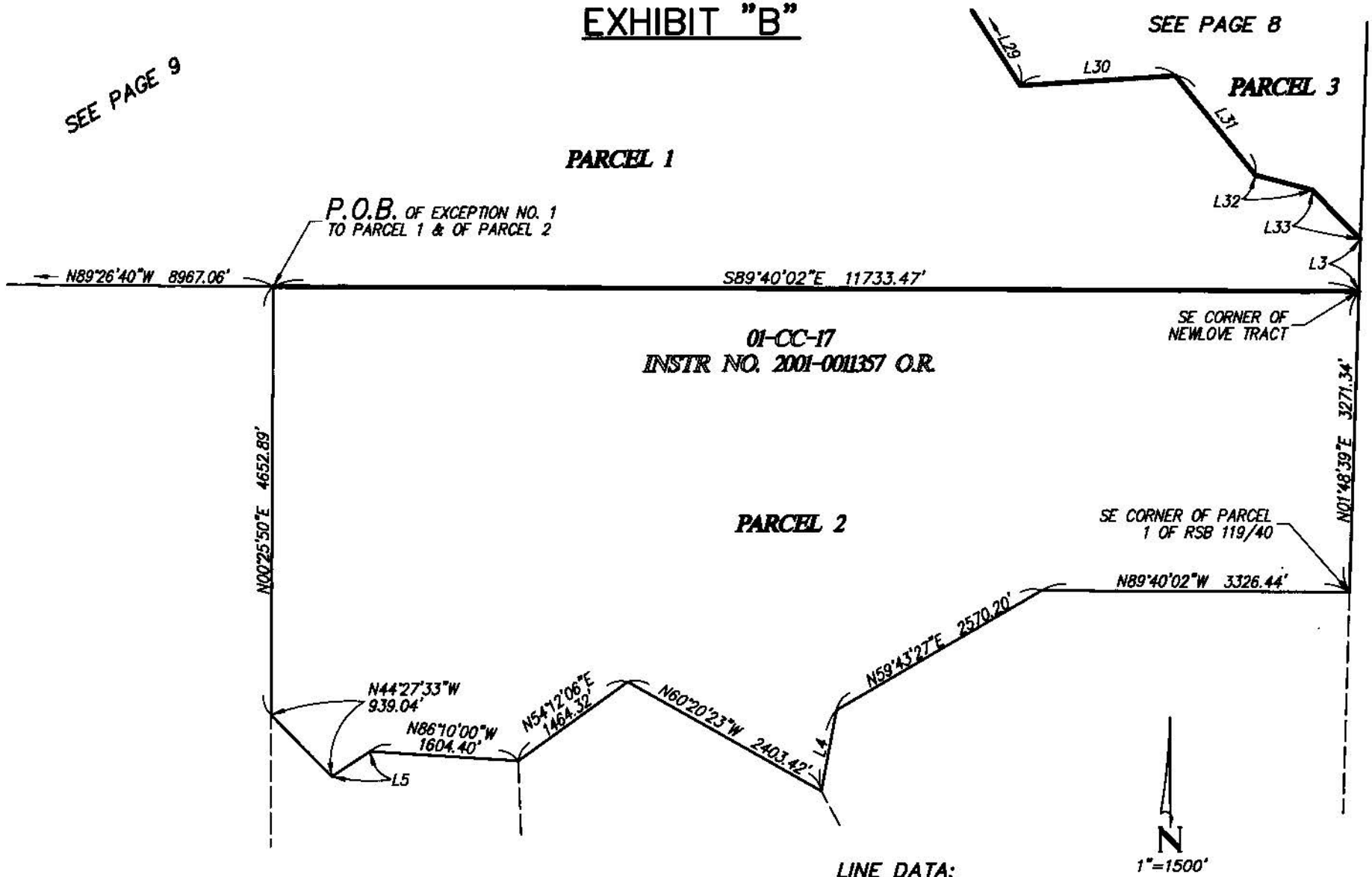
N
1"=1500'

LEGEND:

PARCEL LINE BEING ADJUSTED
PARCEL LINE ADJUSTED
LOT LINE REMAINING

DOC #2021-0046048 Page 9 of 10

EXHIBIT "B"



NOTE:

ALL BEARINGS AND DISTANCES ARE RECORD PER R.S. 119/40, UNLESS OTHERWISE NOTED.

LEGEND:

- PARCEL LINE BEING ADJUSTED
- PARCEL LINE ADJUSTED
- LOT LINE REMAINING

LINE DATA:

L3	N01°45'47"E	566.84'
L4	N10°43'29"E	892.87'
L5	N56°59'54"E	498.41'
L29	S32°39'52"E	1212.56'
L30	N86°20'43"E	1679.02'
L31	S38°28'05"E	1382.34'
L32	S75°23'08"E	643.17'
L33	S43°40'24"E	739.04'

TITLE: **LOT LINE ADJUSTMENT 18LA01**

LDC Land Development Consultants
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DOC #2021-0046048 Page 10 of 10

Detailed Facility Report

Facility Summary

ORCUTT HILL FACILITIES

1555 ORCUTT HILL ROAD, ORCUTT, CA 93455

FRS (Facility Registry Service) ID: 110070094695

EPA Region: 09

Latitude: 34.83387

Longitude: -120.40539

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Expired (CAZ458547)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070094695					N	34.83387	-120.40539
ICIS-NPDES	CWA	CAZ458547	Non-Major: General Permit Covered Facility	Expired	Industrial Stormwater	06/30/2020	N	34.83387	-120.40539

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070094695	ORCUTT HILL FACILITIES	1555 ORCUTT HILL ROAD, ORCUTT, CA 93455	Santa Barbara County

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-NPDES	CWA	CAZ458547	ORCUTT HILL FACILITIES	1555 ORCUTT HILL ROAD, ORCUTT, CA 93455	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	CAZ458547	1311	Crude Petroleum And Natural Gas

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
Santa Ynez Reservation	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California	100000260	24

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	CAZ458547	No	03/31/2025	0	07/04/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: CAZ458547)		04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Quarterly Noncompliance Report History											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
180600090103	Harris Canyon	--	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	Yes	1-Hour Ozone (1979)
Lead	No	--	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	45
Population Density	14/sq.mi.
Housing Units in Area	19
Percent People of Color	40%
Households in Area	18
Households on Public Assistance	1
Persons With Low Income	5
Percent With Low Income	11%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.83387
Center Longitude	-120.40539
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1 (5.88%)
$15,000 - $25,000	0 (0%)
$25,000 - $50,000	2 (11.76%)
$50,000 - $75,000	1 (5.88%)
Greater than $75,000	13 (76.47%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	3 (7%)
Minors 17 years and younger	10 (22%)
Adults 18 years and older	36 (80%)
Seniors 65 years and older	10 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	34 (76%)
African-American	0 (0%)
Hispanic-Origin	13 (29%)
Asian	3 (7%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (2%)
Other/Multiracial	4 (9%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	2 (6.06%)
9th through 12th Grade	2 (6.06%)
High School Diploma	6 (18.18%)
Some College/2-year	8 (24.24%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	12 (36.36%)

Detailed Facility Report

Facility Summary

GOLDEN STATE WATER COMPANY

1555 ORCUTT HILL RD, SANTA MARIA, CA 93455

FRS (Facility Registry Service) ID: 110070578316

EPA Region: 09

Latitude: 34.831956

Longitude: -120.414141

Locational Data Source: RCRAINFO

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active Other, (CAC003013644)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070578316					N	34.831956	-120.414141
RCRAInfo	RCRA	CAC003013644	Other	Active (H)			N	34.831956	-120.414141

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070578316	GOLDEN STATE WATER COMPANY	1555 ORCUTT HILL RD, SANTA MARIA, CA 93455	Santa Barbara County
RCRAInfo	RCRA	CAC003013644	GOLDEN STATE WATER COMPANY	1555 ORCUTT HILL RD, SANTA MARIA, CA 93455	Santa Barbara County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	CAC003013644	221310	Water Supply and Irrigation Systems

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
Santa Ynez Reservation	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California	100000260	24

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	CAC003013644	No	07/05/2025	0	07/04/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: CAC003013644)			07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	Yes	1-Hour Ozone (1979)
Lead	No	--	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	39
Population Density	13/sq.mi.
Housing Units in Area	17
Percent People of Color	41%
Households in Area	16
Households on Public Assistance	1
Persons With Low Income	4
Percent With Low Income	10%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.831956
Center Longitude	-120.414141
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1 (6.25%)
$15,000 - $25,000	0 (0%)
$25,000 - $50,000	2 (12.5%)
$50,000 - $75,000	1 (6.25%)
Greater than $75,000	12 (75%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	3 (8%)
Minors 17 years and younger	9 (23%)
Adults 18 years and older	31 (79%)
Seniors 65 years and older	9 (23%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	30 (77%)
African-American	0 (0%)
Hispanic-Origin	11 (28%)
Asian	3 (8%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	1 (3%)
Other/Multiracial	4 (10%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	2 (6.9%)
9th through 12th Grade	2 (6.9%)
High School Diploma	5 (17.24%)
Some College/2-year	7 (24.14%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	11 (37.93%)

Appendix D

Well Summary and Status

SOLOMON HILLS WELL MAP

JULY 8, 2025

SHEET INDEX:

SHEET 1 – SPECIFIC PLAN AREA AND NEWLOVE PARK

SHEET 2 – BICKNELL ROAD

SHEET 3 – WELL ABANDONMENT PHASING TABLES

STATE HIGHWAY 101

ORCUTT HILLS ROAD

BICKNELL ROAD

NEWLOVE PARK

NL-#22

NL-#20-16Z

NL-#101

NL-#60

NL-#89

NL-#79

NL-#98

NL-#49

NL-#48

NL-#32-21Z

NL-#50

NL-#44

NL-#45

NL-#46

NL-#47

C-#4

C-#15

C-#52

C-#17

C-#61

C-#62

C-#65

C-#77

C-#8

C-#B-5

C-#84

C-#63

C-#9

C-#6

C-#57

C-#60

C-#66

C-#88

C-#11

C-#74

C-#91

C-#78

C-#69

C-#76

C-#64

C-#2A

C-#4A

C-#45

C-#68

C-#3

C-#5

C-#75

C-#6

C-#6742X

C-#146D

C-#136

C-#126

C-#36

C-#146

C-#70

C-#102

C-#47A

C-#46

C-#37A

PHASE 1

PHASE 2

PHASE 3

PHASE 4

N

0 1,000 2,000

SCALE IN FEET
1 inch = 1,000 ft.

SEE SHEET 2 FOR BICKNELL ROAD WELLS

LEGEND:

C-#000 – WELL LOCATION

– EXISTING PARCEL LINE

– SPECIFIC PLAN BOUNDARY

– GRADING PHASE 1

– GRADING PHASE 2

– GRADING PHASE 3

– GRADING PHASE 4

WELL LOCATIONS SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

Land Development Consultants
forward thinking, forward planning
1520 Brookhollow Dr., Ste 33, Santa Ana, CA 92705
www.ldccivilengineers.com

SOLOMON HILLS WELL MAP

JULY 8, 2025

PHASE 2

PHASE 1

PHASE 2

NL-#101

NL-#60

NL-#79

NL-#49

NL-#48

NL-#32-21Z

NL-#50

NL-#44

NL-#45

C-#4

C-#15

C-#52

C-#17

C-#61

C-#77

C-#8

C-#84

C-#63

C-#9

C-#6

C-#57

C-#60

C-#88

C-#11

C-#74

C-#91

C-#76

C-#64

C-#45

C-#68

C-#75

C-#6742X

C-#146D

C-#126

C-#36

C-#102

C-#37A

BICKNELL ROAD

C-#1714

C-#1615

C-#1516

C-#2

BICKNELL ROAD WELLS

N

0 1,000 2,000

SCALE IN FEET
1 inch = 1,000 ft.

WELL LOCATIONS SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

LEGEND:

C-#000 – WELL LOCATION

– EXISTING PARCEL LINE

– SPECIFIC PLAN BOUNDARY

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SOLOMON HILLS WELL MAP

JULY 8, 2025

PHASE 1 SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
1	CAREAGA	C-#2A	0408322208	ACTIVE
2	CAREAGA	C-#3	0408322209	PLUGGED
3	CAREAGA	C-#4	0408302040	ACTIVE
4	CAREAGA	C-#4A	0408322210	ACTIVE
5	CAREAGA	C-#5	0408322211	PLUGGED
6	CAREAGA	C-#6	0408302042	ACTIVE
7	CAREAGA	C-#6	0408322220	ACTIVE
8	CAREAGA	C-#8	0408302044	PLUGGED
9	CAREAGA	C-#9	0408302045	PLUGGED
10	CAREAGA	C-#11	0408302047	ACTIVE
11	CAREAGA	C-#15	0408302051	PLUGGED
12	CAREAGA	C-#17	0408302053	CANCELED
13	CAREAGA	C-#36	0408320677	ACTIVE
14	CAREAGA	C-#37A	0408321259	PLUGGED
15	CAREAGA	C-#45	0408302079	ACTIVE
16	CAREAGA	C-#52	0408302086	ACTIVE
17	CAREAGA	C-#57	0408302091	ACTIVE
18	CAREAGA	C-#60	0408302094	ACTIVE
19	CAREAGA	C-#61	0408302095	ACTIVE
20	CAREAGA	C-#63	0408302097	ACTIVE
21	CAREAGA	C-#64	0408302098	ACTIVE
22	CAREAGA	C-#66	0408302100	ACTIVE
23	CAREAGA	C-#68	0408302102	PLUGGED
24	CAREAGA	C-#74	0408302107	ACTIVE
25	CAREAGA	C-#75	0408302108	ACTIVE
26	CAREAGA	C-#76	0408302109	ACTIVE
27	CAREAGA	C-#77	0408302110	ACTIVE
28	CAREAGA	C-#78	0408302111	ACTIVE
29	CAREAGA	C-#84	0408302117	ACTIVE
30	CAREAGA	C-#88	0408302120	ACTIVE
31	CAREAGA	C-#91	0408302123	ACTIVE
32	CAREAGA	C-#102	0408322215	PLUGGED
33	CAREAGA	C-#126	0408322108	ACTIVE
34	CAREAGA	C-#136	0408321379	ACTIVE
35	CAREAGA	C-#146	0408321957	PLUGGED
36	CAREAGA	C-#146D	0408322196	ACTIVE
37	CAREAGA	C-#6742X	0408322214	ACTIVE
38	NEWLOVE	NL-#20-16Z	0408322439	PLUGGED
39	NEWLOVE	NL-#32-21Z	0408322428	PLUGGED
40	NEWLOVE	NL-#44	0408302299	PLUGGED
41	NEWLOVE	NL-#45	0408302300	PLUGGED
42	NEWLOVE	NL-#48	0408302303	ACTIVE
43	NEWLOVE	NL-#49	0408302304	PLUGGED
44	NEWLOVE	NL-#50	0408302305	PLUGGED
45	NEWLOVE	NL-#89	0408302331	PLUGGED

PHASE 1 OFFSITES - Newlove Park & Bicknell Road

#	LEASE NAME	WELL #	API #	STATUS
46	CAREAGA-Bicknell	C-#2	0408322348	PLUGGED
47	CAREAGA-Bicknell	C-#1516	0408322646	IDLE
48	CAREAGA-Bicknell	C-#1615	0408322654	IDLE
49	CAREAGA-Bicknell	C-#1714	0408322651	ACTIVE
50	NEWLOVE-Park	NL-#22	0408302281	PLUGGED

PHASE 2 - SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
51	NEWLOVE	NL-#60	0408302313	PLUGGED
52	NEWLOVE	NL-#79	0408302324	PLUGGED
53	NEWLOVE	NL-#101	0408302341	PLUGGED

PHASE 3 - SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
54	CAREAGA	C-#B-5	0408320317	IDLE
55	CAREAGA	C-#46	0408321223	ACTIVE
56	CAREAGA	C-#47A	0408321822	IDLE
57	CAREAGA	C-#62	0408302096	ACTIVE
58	CAREAGA	C-#65	0408302099	PLUGGED
59	CAREAGA	C-#69	0408302103	PLUGGED
60	CAREAGA	C-#70	0408302104	PLUGGED
61	NEWLOVE	NL-#46	0408302301	ACTIVE
62	NEWLOVE	NL-#47	0408302302	CANCELED
63	NEWLOVE	NL-#98	0408302339	PLUGGED

PHASE 4 - SPECIFIC PLAN BOUNDARY

NO WELLS

WELL DATA SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

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Appendix E

EDR Area/Corridor Report

Solomon Hills Phase I
Portions of Careaga and Newlove Leases
Santa Maria, CA 93455

Inquiry Number: 8028589.2s
June 24, 2025

EDR Area / Corridor Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Mapped Sites Summary	2
Key Map	2
Map Findings Summary	3
Focus Maps	8
Map Findings	36
Orphan Summary	OR-1
Government Records Searched/Data Currency Tracking	GR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/21/2025 has revealed that there is 1 ENVIROSTOR site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BEACON SITE #4 AAF Facility Id: 80000194 Status: Inactive - Needs Evaluation		B19 / 5	62

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

CHMIRS: California Hazardous Material Incident Report System

A review of the CHMIRS list, as provided by EDR, and dated 12/30/2024 has revealed that there are 16 CHMIRS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
Not reported	1555 ORCUTT RD.	A2 / 5	36

OES Incident Number: 0-1785			
Not reported OES Incident Number: 1-4009 OES Incident Number: 7-4749	1555 ORCUTT RD	A3 / 5	38
Not reported OES Incident Number: 6-6297 OES Incident Number: 2-0320	1555 ORCHID HILL RD.	A4 / 5	40
Not reported OES Incident Number: 7-4658	CAREAGA WELL #37 155	A5 / 5	43
Not reported OES Incident Number: 08-5874	1555 ORCHARD HILL RD	A6 / 5	44
Not reported OES Incident Number: 6-2260	1555 ORCHID HILL RD	A7 / 5	46
Not reported OES Incident Number: 6-7410	OIL WELL NEWLOVE # 9	A8 / 5	47
Not reported OES Incident Number: 08-2268	1555 ORCHID HILL ROA	A9 / 5	48
Not reported OES Incident Number: 15-0098	1555 ORCUTT RD., WEL	A10 / 5	50
Not reported OES Incident Number: 16-1667	ORCUTT HILL OIL FIEL	A11 / 5	51
Not reported OES Incident Number: 08-5394	NEWLOVE 32 WELL SITE	A12 / 5	53
Not reported OES Incident Number: 08-3273	ORCHID HILL OIL FIEL	A13 / 5	54
Not reported OES Incident Number: 7-6184	1555 OCRUTT HILL ROA	A14 / 5	56
Not reported OES Incident Number: 1-4181	ORCUTT HILL FIELD/15	A15 / 5	57
Not reported OES Incident Number: 9-4477	OCUTT HILL, FIELD SQ	A16 / 5	58
Not reported OES Incident Number: 2-3532	1555 ORCUTT ROAD	A17 / 5	60

Other Ascertainable Records

FUDS: Formerly Used Defense Sites

A review of the FUDS list, as provided by EDR, and dated 01/30/2025 has revealed that there is 1 FUDS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BEACON SITE #4 AAF		B18 / 5	61

EXECUTIVE SUMMARY

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 04/22/2025 has revealed that there is 1 FINDS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
CAREAGA LEASE - PHOE Registry ID:: 110054195517 Registry ID:: 110071771857	CAREAGA LEASE, ORCUT	C22 / 9	64

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

A review of the PFAS ECHO list, as provided by EDR, and dated 03/24/2025 has revealed that there is 1 PFAS ECHO site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
PACIFIC COAST ENERGY		1 / 5	35

EMI: Emissions Inventory Data

A review of the EMI list, as provided by EDR, and dated 12/31/2023 has revealed that there is 1 EMI site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
CAREAGA LEASE - PHOE Facility Id: 3062 Facility Id: 1517	***CAREAGA LEASE, ORCUT***	***C23 / 9***	***64***

UIC: UIC Listing

A review of the UIC list, as provided by EDR, and dated 02/27/2025 has revealed that there is 1 UIC site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
NEWBRIDGE RESOURCES, Well Status: Idle		C21 / 9	63

CERS: CERS

A review of the CERS list, as provided by EDR, and dated 01/12/2025 has revealed that there are 2 CERS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SOLOMON HILLS		20 / 5	63
CAREAGA LEASE - PHOE	***CAREAGA LEASE, ORCUT***	***C23 / 9***	***64***

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state and tribal registered storage tanks

AST: Aboveground Petroleum Storage Tank Facilities

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
PEI - CAREAGA LEASE	7980 GRACIOSA RD	SSE 1/8 - 1/4 (0.200 mi.)	D25 / 11	68
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

CERS TANKS: California Environmental Reporting System (CERS) Tanks

A review of the CERS TANKS list, as provided by EDR, and dated 01/12/2025 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
NEWBRIDGE RESOURCES	7930 GRACIOSA RD	SSE 1/8 - 1/4 (0.133 mi.)	24 / 11	66

Other Ascertainable Records

DOD: Department of Defense Sites

A review of the DOD list, as provided by EDR, and dated 06/07/2021 has revealed that there is 1 DOD site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
VANDENBERG AIR FORCE		W 1/8 - 1/4 (0.232 mi.)	Region / 7,0,11	35

EXECUTIVE SUMMARY

CUPA Listings: CUPA Resources List

A review of the CUPA Listings list, as provided by EDR, has revealed that there is 1 CUPA Listings site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CAREAGA LEASE	***7980 GRACIOSA RD***	***SSE 1/8 - 1/4 (0.200 mi.)***	***D26 / 11***	***68***

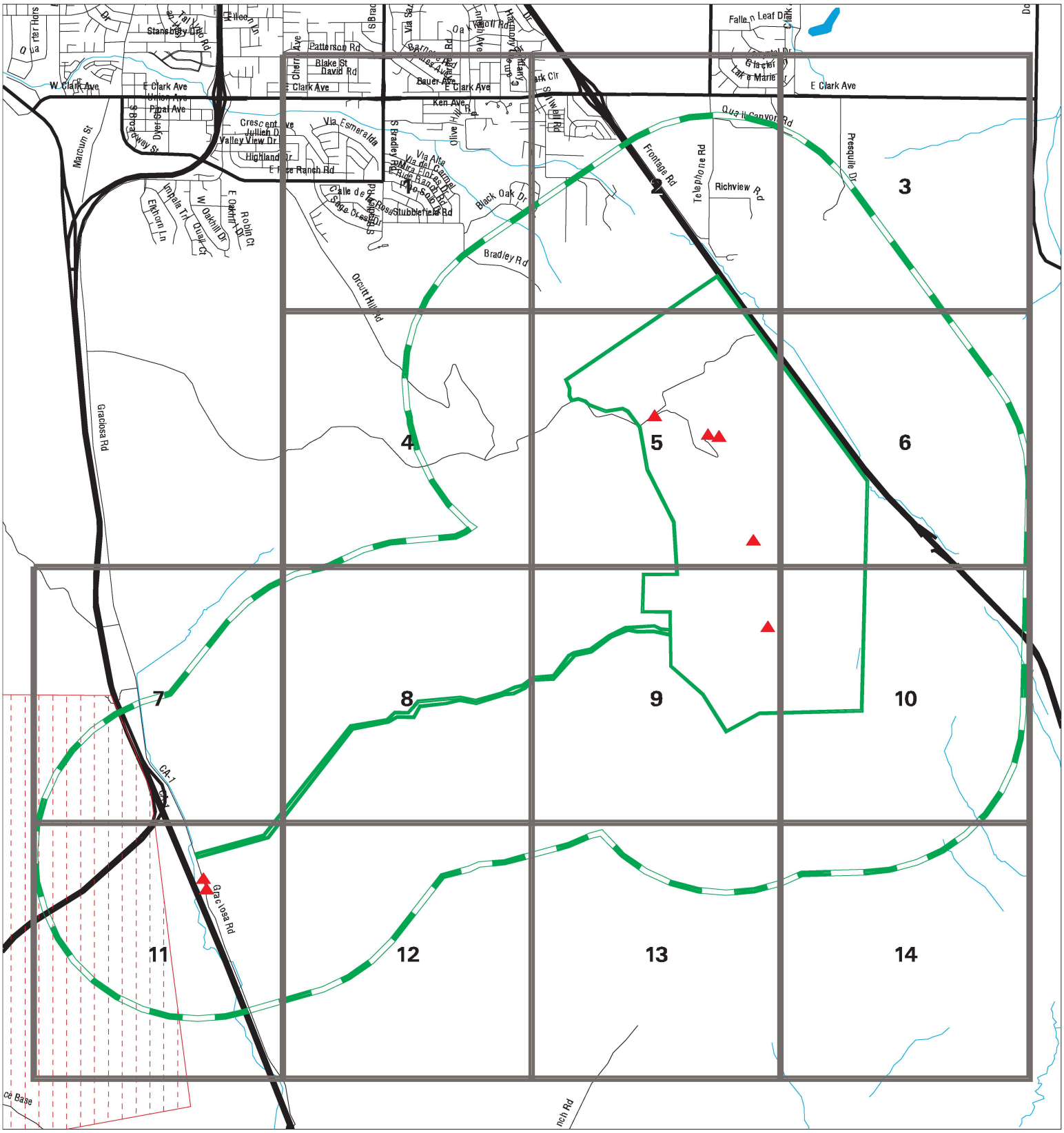
Database: CUPA SANTA BARBARA, Date of Government Version: 09/08/2011
Current Status: 2
Facility Id: FA0010327

MAPPED SITES SUMMARY

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	VANDENBERG AIR FORCE		DOD	1225 0.232 West
1 / 5	PACIFIC COAST ENERGY		PFAS ECHO	TP
A2 / 5		1555 ORCUTT RD.	CHMIRS	TP
A3 / 5		1555 ORCUTT RD	CHMIRS	TP
A4 / 5		1555 ORCHID HILL RD.	CHMIRS	TP
A5 / 5		CAREAGA WELL #37 155	CHMIRS	TP
A6 / 5		1555 ORCHARD HILL RD	CHMIRS	TP
A7 / 5		1555 ORCHID HILL RD	CHMIRS	TP
A8 / 5		OIL WELL NEWLOVE # 9	CHMIRS	TP
A9 / 5		1555 ORCHID HILL ROA	CHMIRS	TP
A10 / 5		1555 ORCUTT RD., WEL	CHMIRS	TP
A11 / 5		ORCUTT HILL OIL FIEL	CHMIRS	TP
A12 / 5		NEWLOVE 32 WELL SITE	CHMIRS	TP
A13 / 5		ORCHID HILL OIL FIEL	CHMIRS	TP
A14 / 5		1555 OCRUTT HILL ROA	CHMIRS	TP
A15 / 5		ORCUTT HILL FIELD/15	CHMIRS	TP
A16 / 5		OCUTT HILL, FIELD SQ	CHMIRS	TP
A17 / 5		1555 ORCUTT ROAD	CHMIRS	TP
B18 / 5	BEACON SITE #4 AAF		FUDS	TP
B19 / 5	BEACON SITE #4 AAF		ENVIROSTOR	TP
20 / 5	SOLOMON HILLS		CERS	TP
C21 / 9	NEWBRIDGE RESOURCES,		UIC	TP
C22 / 9	CAREAGA LEASE - PHOE	CAREAGA LEASE, ORCUT	FINDS	TP
C23 / 9	CAREAGA LEASE - PHOE	CAREAGA LEASE, ORCUT	EMI, CERS	TP
24 / 11	NEWBRIDGE RESOURCES	7930 GRACIOSA RD	CERS TANKS	704 0.133 SSE
D25 / 11	PEI - CAREAGA LEASE	7980 GRACIOSA RD	AST	1058 0.200 SSE
D26 / 11	CAREAGA LEASE	7980 GRACIOSA RD	CUPA Listings, NPDES, CIWQS, CERS	1058 0.200 SSE

Key Map - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/2 1 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25 3:37 PM

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000	1	0	0	0	0	NR	1
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP	16	NR	NR	NR	NR	NR	16
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000	1	0	0	0	0	NR	1
DOD	1.000		0	1	0	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250	1	0	0	NR	NR	NR	1
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
E MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	1	NR	NR	NR	1
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP	1	NR	NR	NR	NR	NR	1
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	TP	1	NR	NR	NR	NR	NR	1
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP	2	NR	NR	NR	NR	NR	2
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		24	0	4	0	0	0	28

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Solomon Hills Phase I	CLIENT: Waterstone Environmental Inc
ADDRESS: Portions of Careaga and Newlove Leases	CONTACT: Heather Fields
CITY/STATE: Santa Maria CA	INQUIRY #: 8028589.2s
ZIP: 93455	DATE: 06/24/25

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MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 2 - 8028589.2s



SITE NAME: Solomon Hills Phase I	CLIENT: Waterstone Environmental Inc
ADDRESS: Portions of Careaga and Newlove Leases	CONTACT: Heather Fields
CITY/STATE: Santa Maria CA	INQUIRY #: 8028589.2s
ZIP: 93455	DATE: 06/24/25

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MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 3 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Solomon Hills Phase I	CLIENT: Waterstone Environmental Inc
ADDRESS: Portions of Careaga and Newlove Leases	CONTACT: Heather Fields
CITY/STATE: Santa Maria CA	INQUIRY #: 8028589.2s
ZIP: 93455	DATE: 06/24/25

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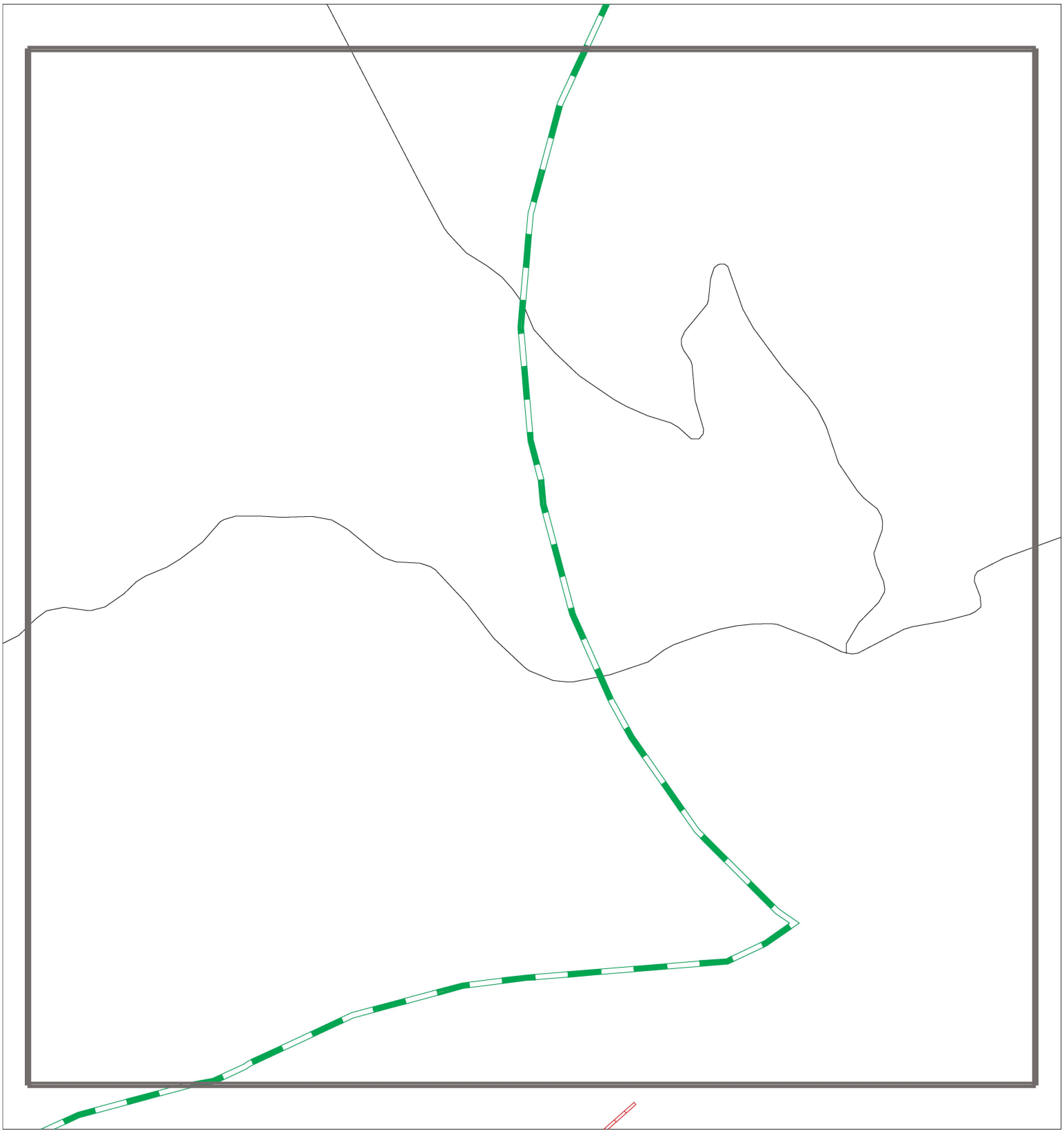
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 4 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25

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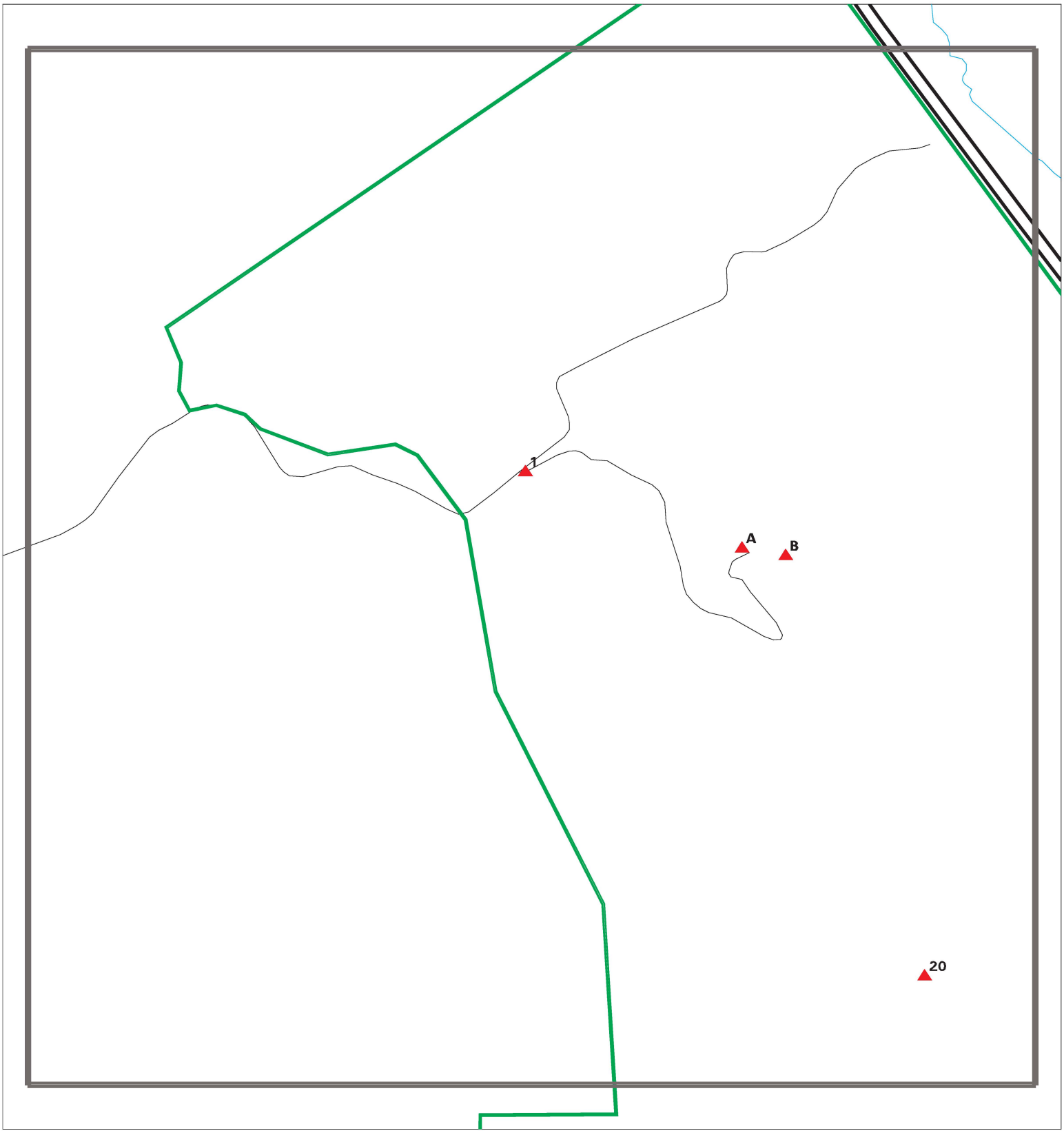
MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 5 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Solomon Hills Phase I	CLIENT: Waterstone Environmental Inc
ADDRESS: Portions of Careaga and Newlove Leases	CONTACT: Heather Fields
CITY/STATE: Santa Maria CA	INQUIRY #: 8028589.2s
ZIP: 93455	DATE: 06/24/25

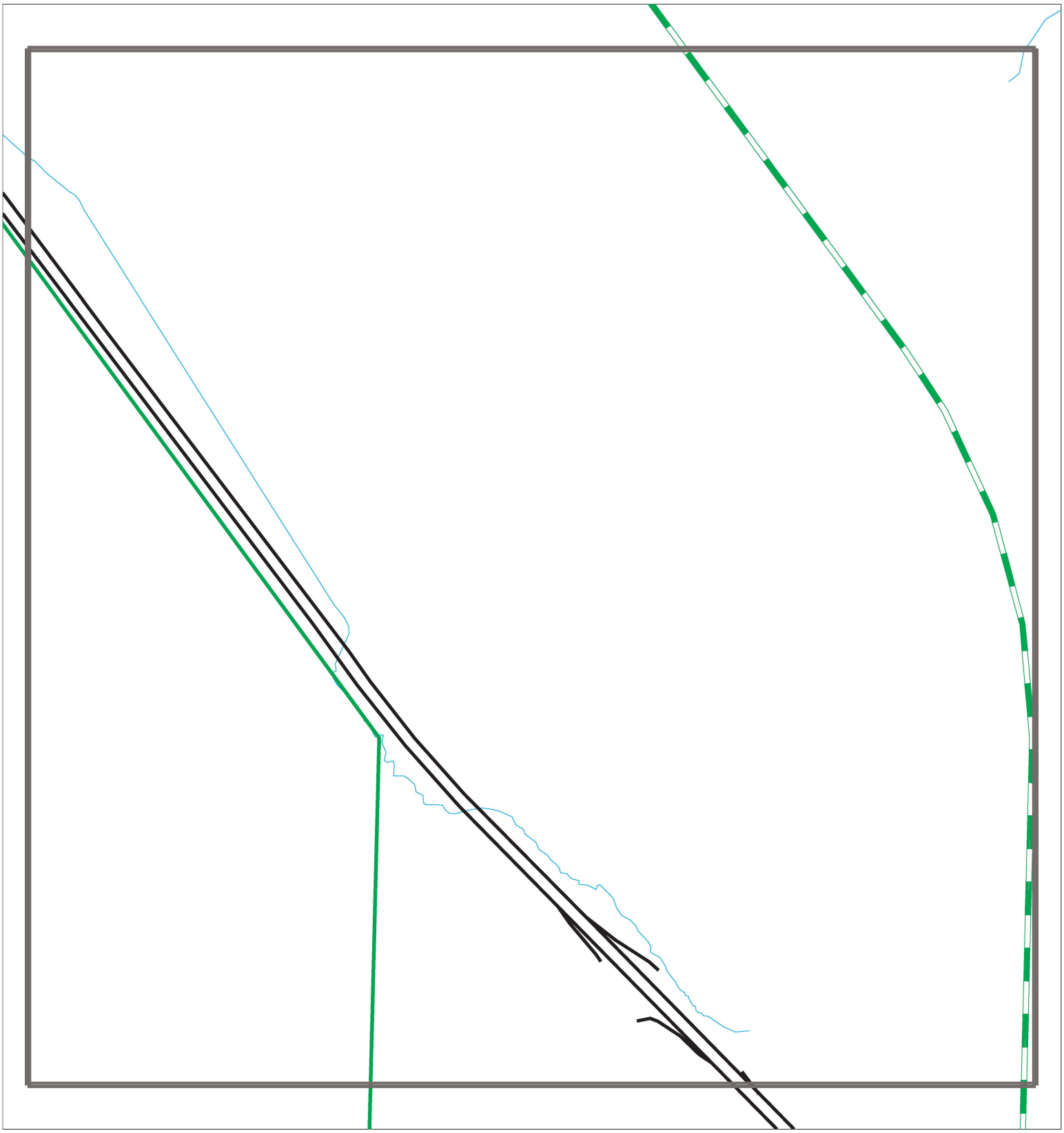
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MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1 / 5	PACIFIC COAST ENERGY		PFAS ECHO	TP
A2 / 5		1555 ORCUTT RD.	CHMIRS	TP
A3 / 5		1555 ORCUTT RD	CHMIRS	TP
A4 / 5		1555 ORCHID HILL RD.	CHMIRS	TP
A5 / 5		CAREAGA WELL #37 155	CHMIRS	TP
A6 / 5		1555 ORCHARD HILL RD	CHMIRS	TP
A7 / 5		1555 ORCHID HILL RD	CHMIRS	TP
A8 / 5		OIL WELL NEWLOVE # 9	CHMIRS	TP
A9 / 5		1555 ORCHID HILL ROA	CHMIRS	TP
A10 / 5		1555 ORCUTT RD., WEL	CHMIRS	TP
A11 / 5		ORCUTT HILL OIL FIEL	CHMIRS	TP
A12 / 5		NEWLOVE 32 WELL SITE	CHMIRS	TP
A13 / 5		ORCHID HILL OIL FIEL	CHMIRS	TP
A14 / 5		1555 OCRUTT HILL ROA	CHMIRS	TP
A15 / 5		ORCUTT HILL FIELD/15	CHMIRS	TP
A16 / 5		OCUTT HILL, FIELD SQ	CHMIRS	TP
A17 / 5		1555 ORCUTT ROAD	CHMIRS	TP
B18 / 5	BEACON SITE #4 AAF		FUDS	TP
B19 / 5	BEACON SITE #4 AAF		ENVIROSTOR	TP
20 / 5	SOLOMON HILLS		CERS	TP

Focus Map - 6 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25

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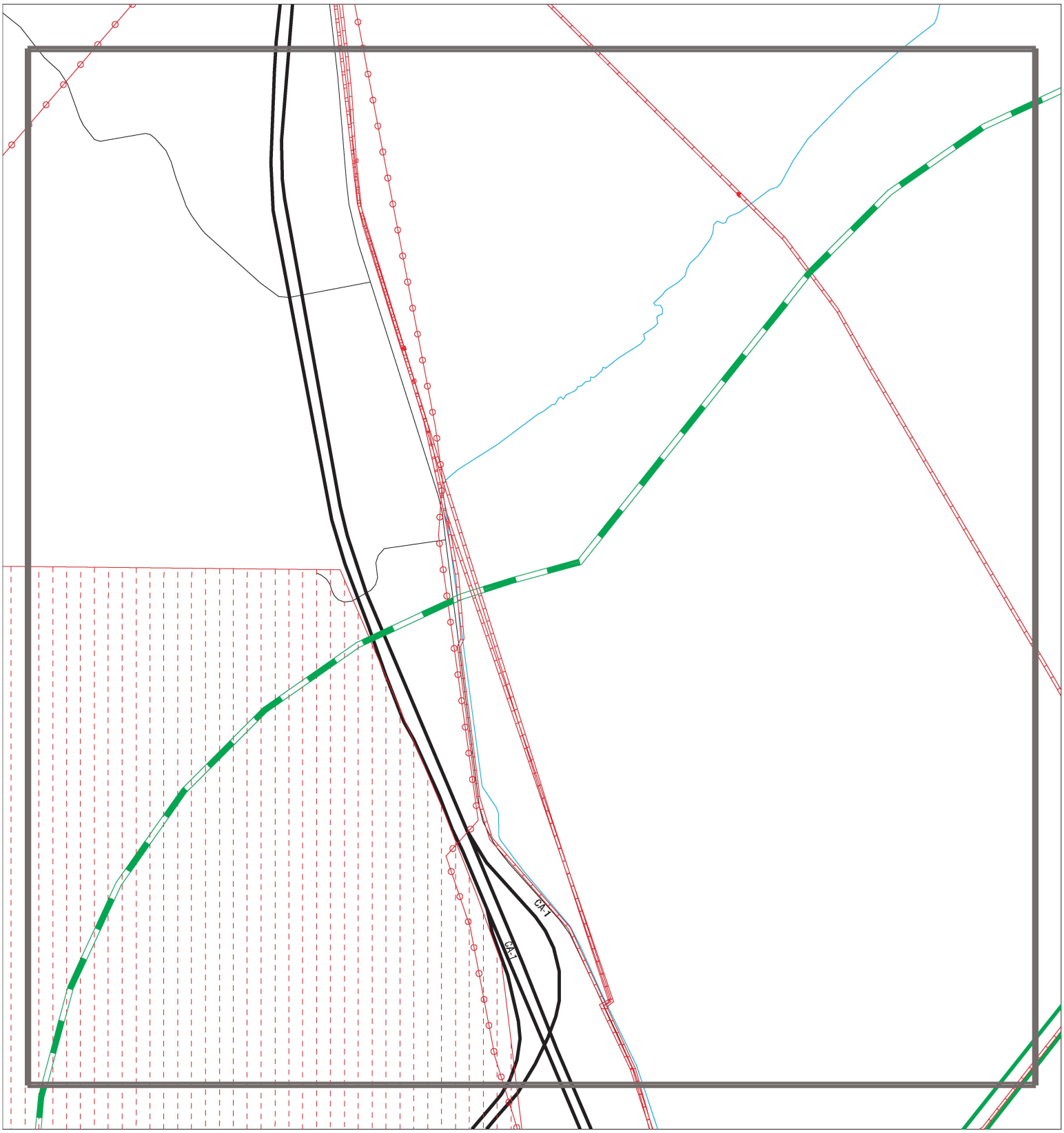
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 7 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Solomon Hills Phase I	CLIENT: Waterstone Environmental Inc
ADDRESS: Portions of Careaga and Newlove Leases	CONTACT: Heather Fields
CITY/STATE: Santa Maria CA	INQUIRY #: 8028589.2s
ZIP: 93455	DATE: 06/24/25

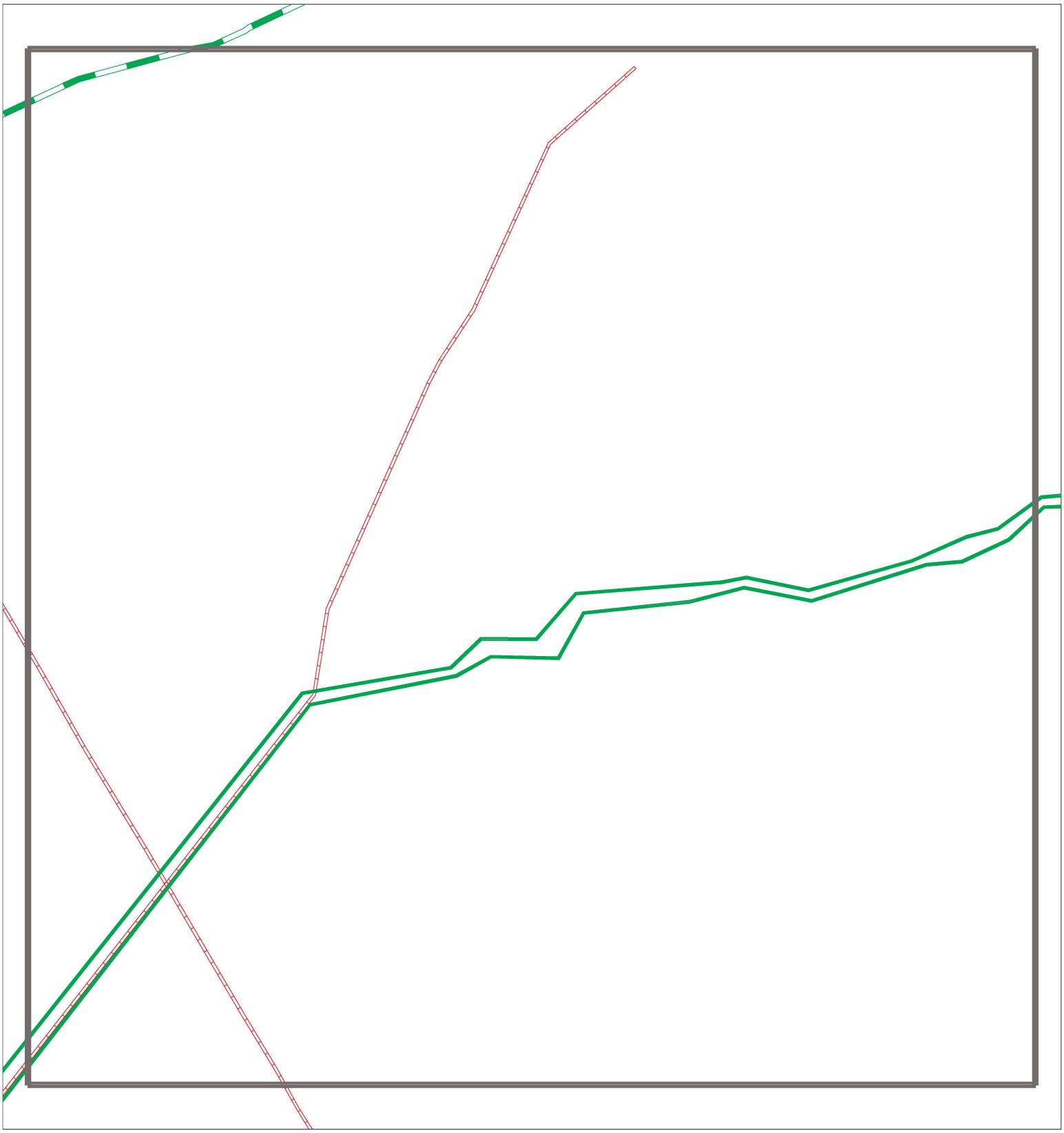
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MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	VANDENBERG AIR FORCE		DOD	1225 0.232 West

Focus Map - 8 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25

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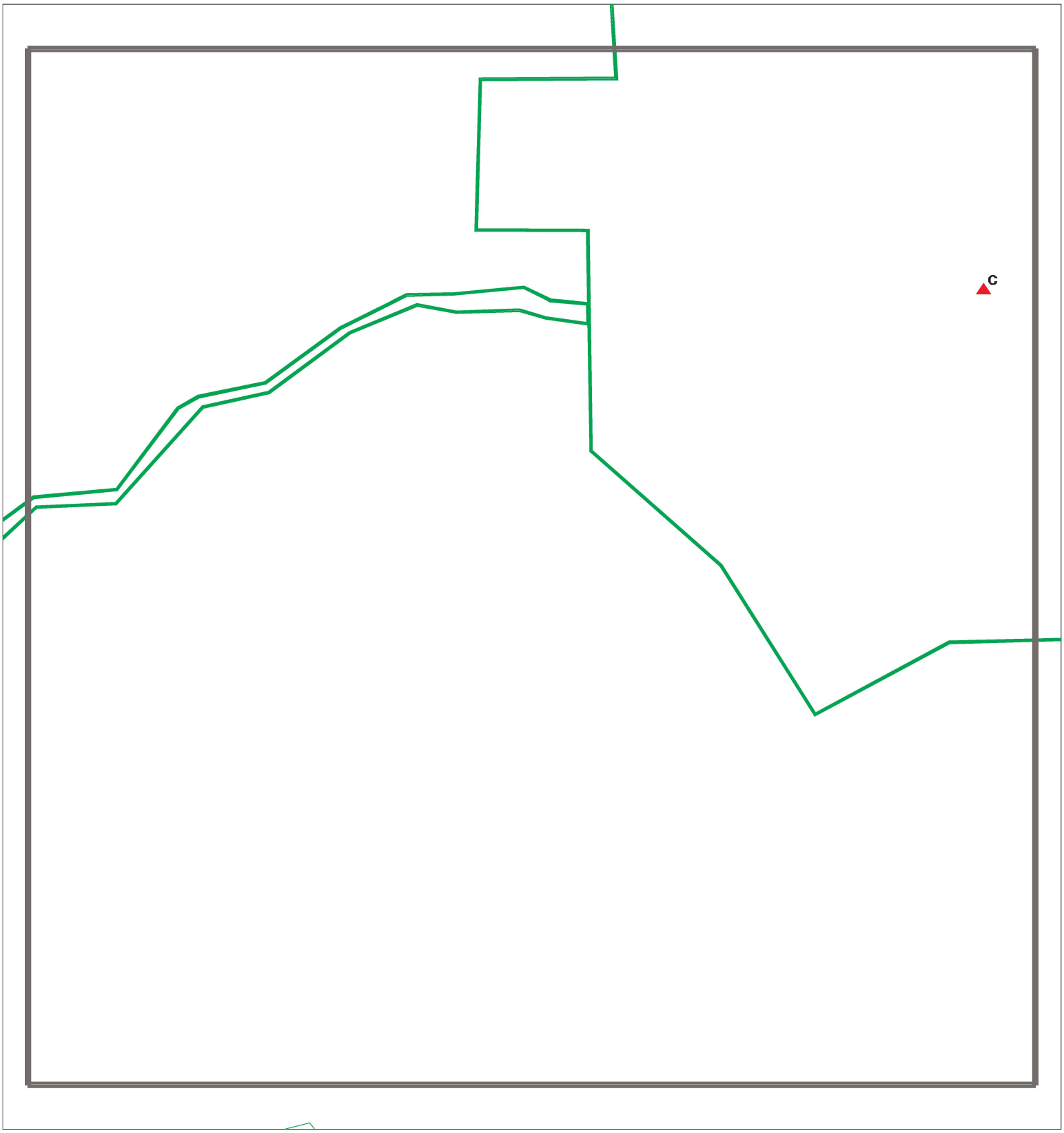
MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 9 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Solomon Hills Phase I	CLIENT: Waterstone Environmental Inc
ADDRESS: Portions of Careaga and Newlove Leases	CONTACT: Heather Fields
CITY/STATE: Santa Maria CA	INQUIRY #: 8028589.2s
ZIP: 93455	DATE: 06/24/25

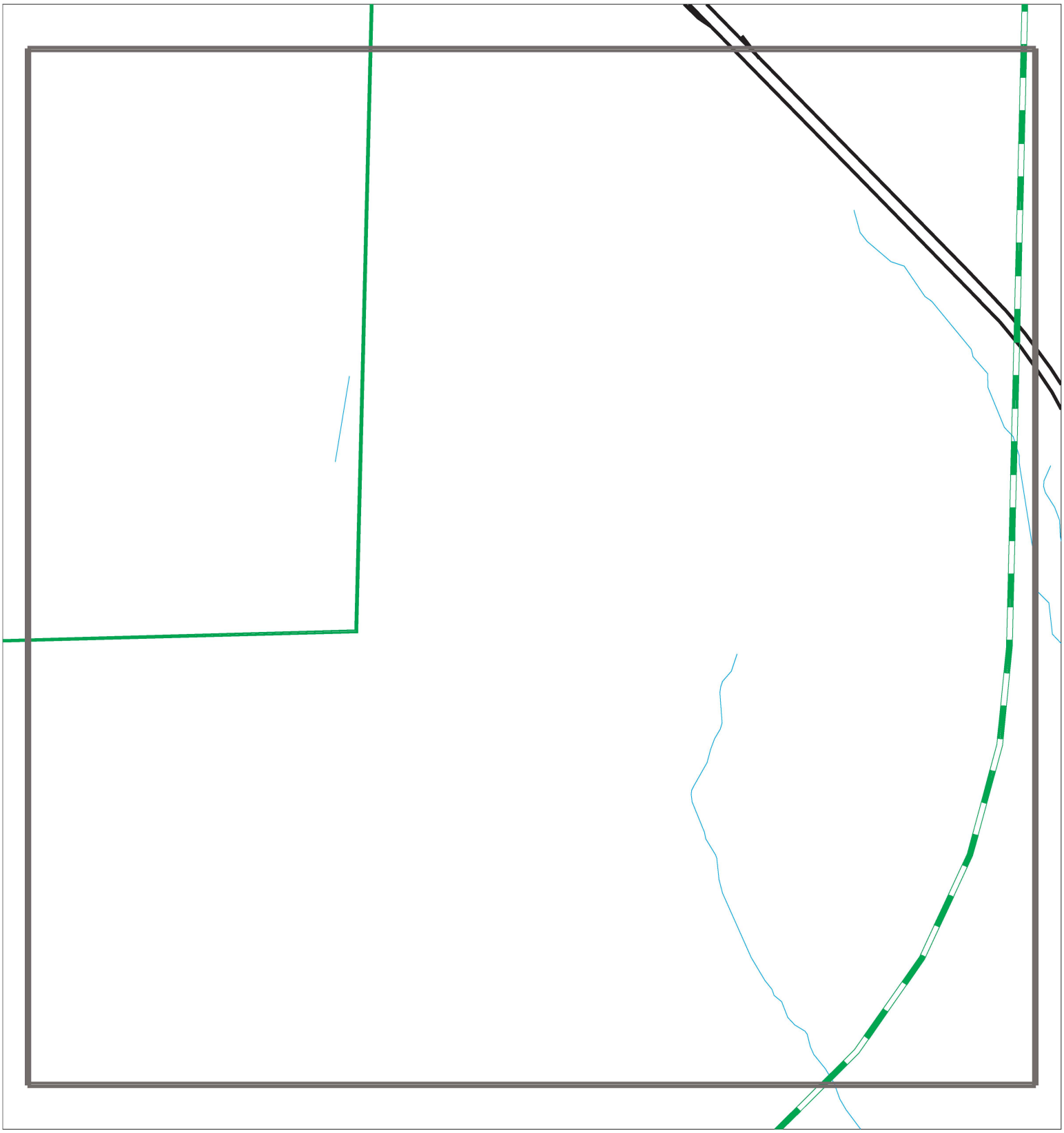
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MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
C21 / 9	NEWBRIDGE RESOURCES,		UIC	TP
C22 / 9	CAREAGA LEASE - PHOE	CAREAGA LEASE, ORCUT	FINDS	TP
C23 / 9	CAREAGA LEASE - PHOE	CAREAGA LEASE, ORCUT	EMI, CERS	TP

Focus Map - 10 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25

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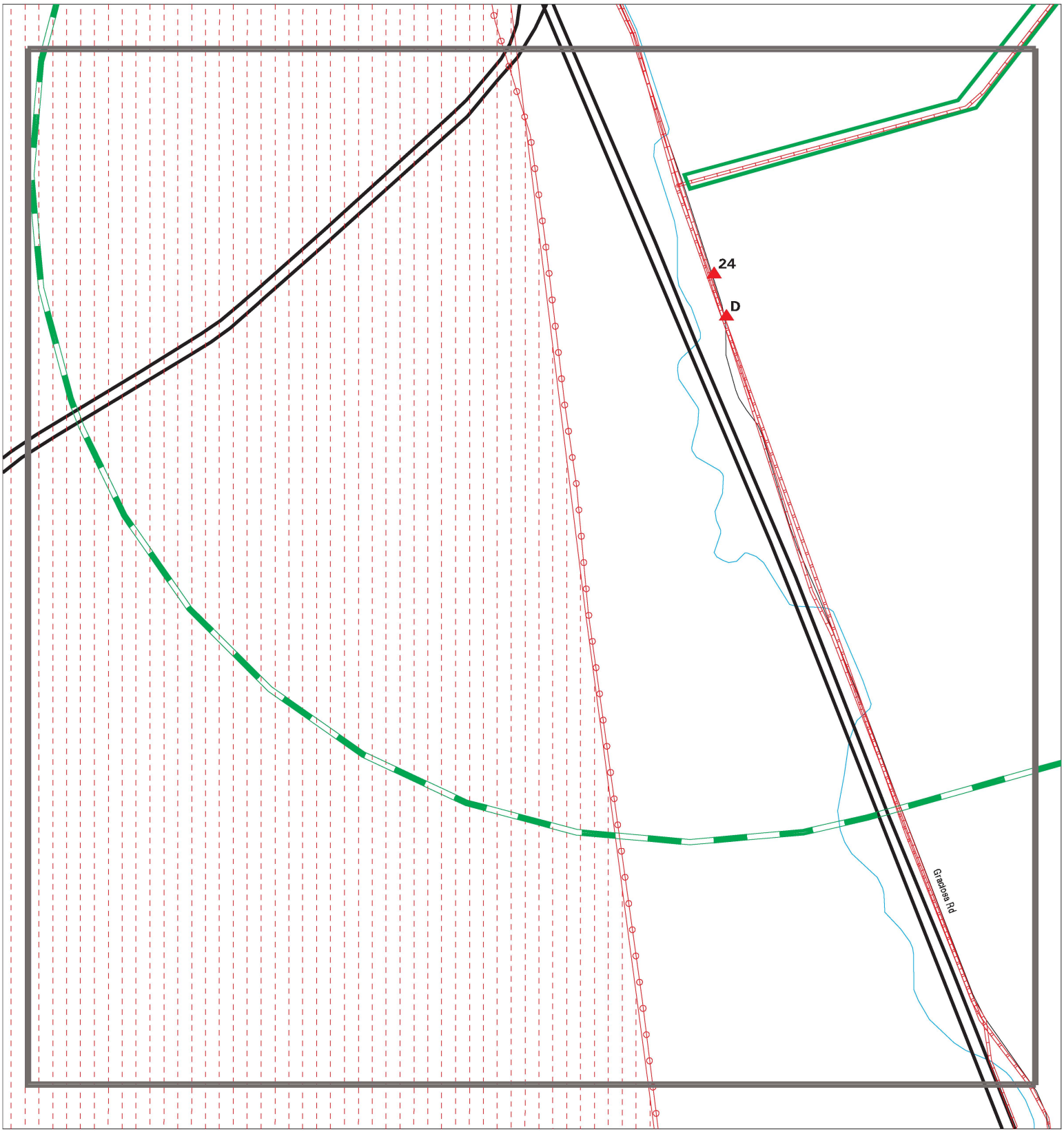
MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 11 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Solomon Hills Phase I	CLIENT: Waterstone Environmental Inc
ADDRESS: Portions of Careaga and Newlove Leases	CONTACT: Heather Fields
CITY/STATE: Santa Maria CA	INQUIRY #: 8028589.2s
ZIP: 93455	DATE: 06/24/25

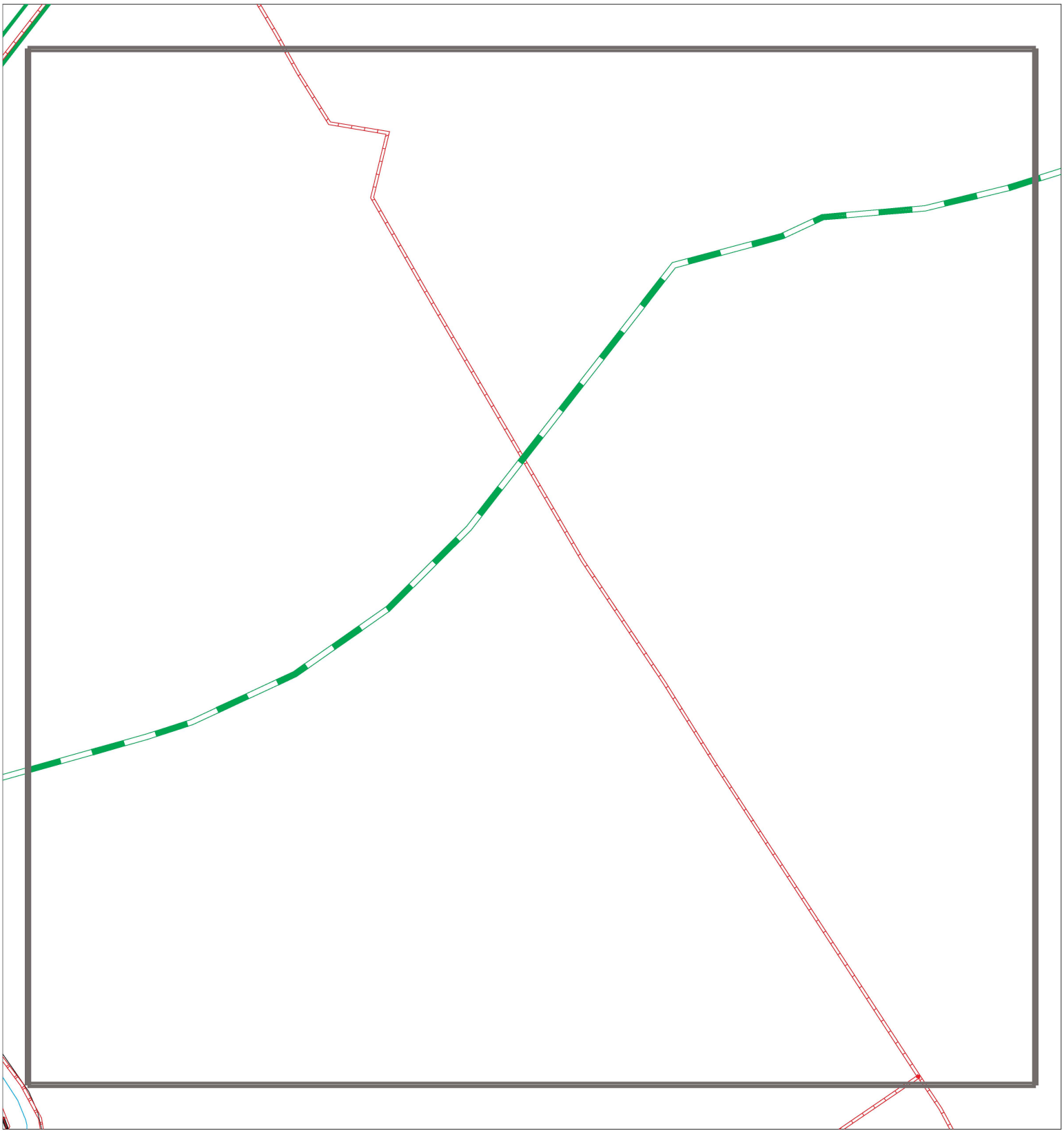
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MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	VANDENBERG AIR FORCE		DOD	1225 0.232 West
24 / 11	NEWBRIDGE RESOURCES	7930 GRACIOSA RD	CERS TANKS	704 0.133 SSE
D25 / 11	PEI - CAREAGA LEASE	7980 GRACIOSA RD	AST	1058 0.200 SSE
D26 / 11	CAREAGA LEASE	7980 GRACIOSA RD	CUPA Listings, NPDES, CIWQS, CERS	1058 0.200 SSE

Focus Map - 12 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25

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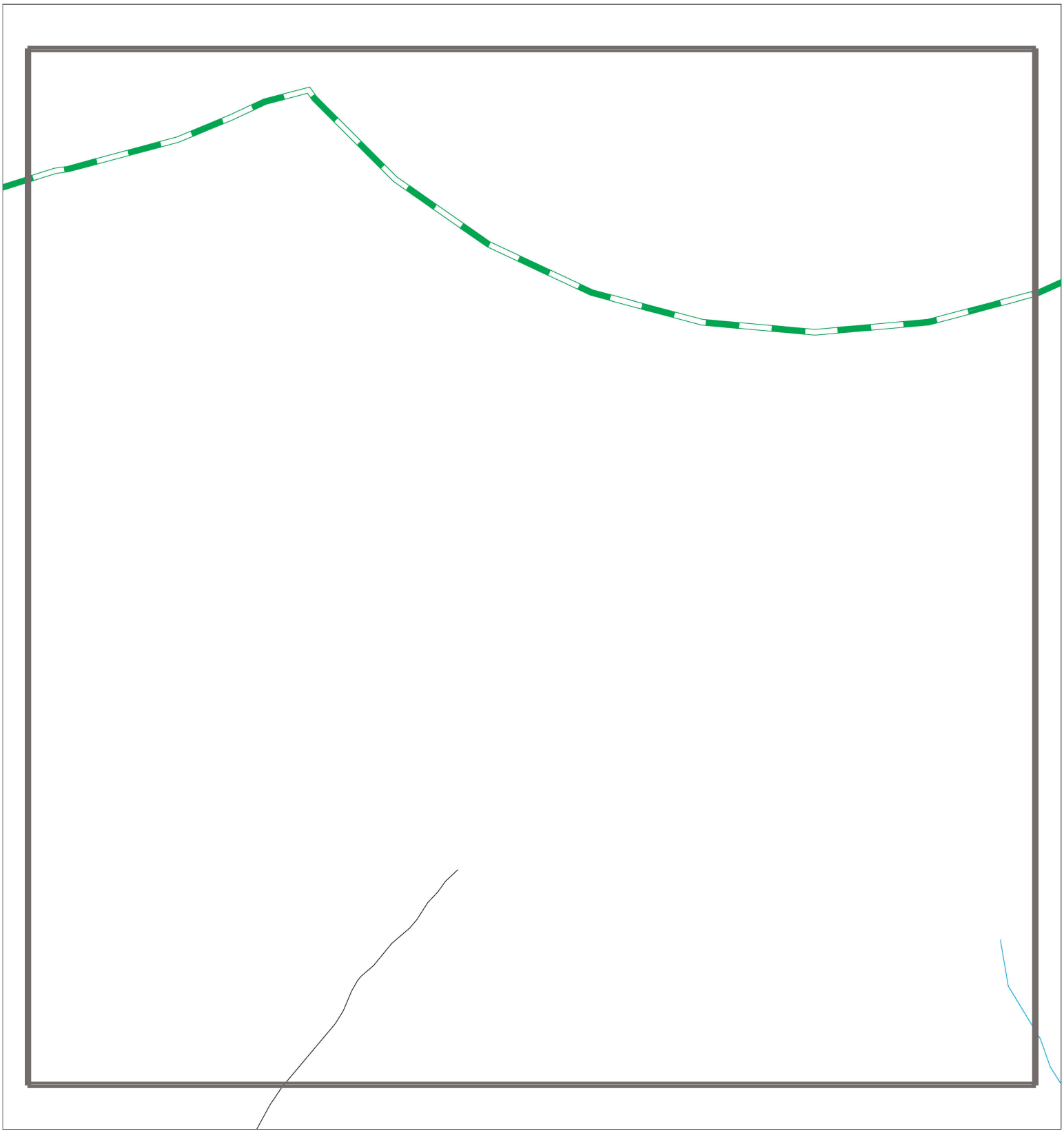
MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 13 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25

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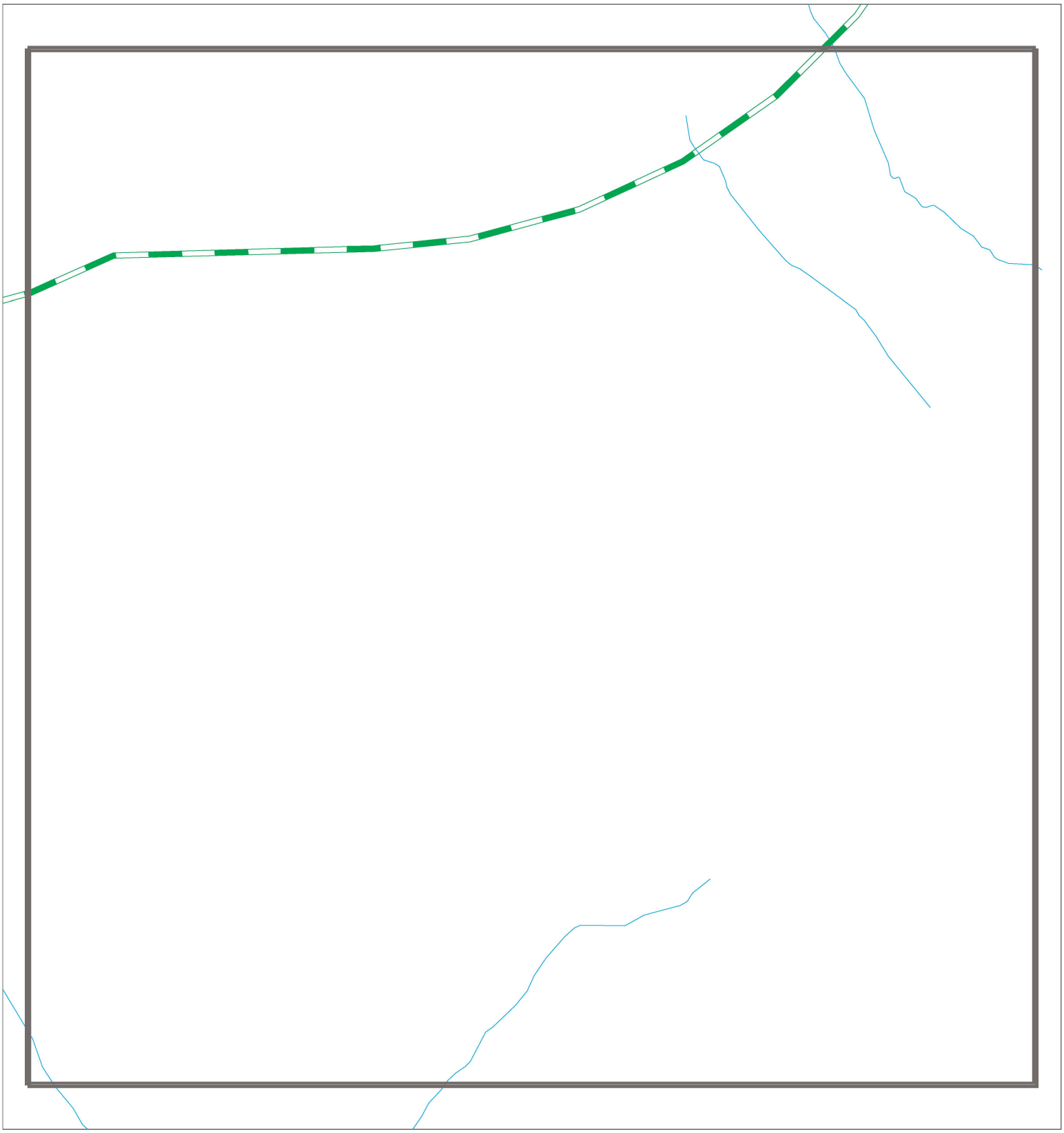
MAPPED SITES SUMMARY - FOCUS MAP 13

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 14 - 8028589.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Solomon Hills Phase I	CLIENT:	Waterstone Environmental Inc
ADDRESS:	Portions of Careaga and Newlove Leases	CONTACT:	Heather Fields
CITY/STATE:	Santa Maria CA	INQUIRY #:	8028589.2s
ZIP:	93455	DATE:	06/24/25

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MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
PORTIONS OF CAREAGA AND NEWLOVE LEASES
SANTA MARIA, CA 93455

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

DOD **VANDENBERG AIR FORCE BASE** **DOD** **CUSA401110**
Region West **, CA** **N/A**
1/8-1/4
1225 ft.

Focus Map: 7,0,11

DOD:

Site Name:	VANDENBERG AIR FORCE BASE
DOD Component:	AF Active
Joint Base:	N/A
Operating Status:	ACT (Active): Site has an on-going operational/support mission (s).

---

1 **PACIFIC COAST ENERGY COMPANY LP** **PFAS ECHO** **1027401460**
Target Property **ORCUTT, CA 93455** **N/A**

Actual: 1071 ft.

Focus Map: 5

PFAS ECHO:

Facility ID:	110071160096
Name:	Pacific Coast Energy Company Lp
Address:	Not reported
City,State,Zip:	ORCUTT, CA 93455
Latitude:	34.836587
Longitude:	-120.389232
Count:	1
County:	Not reported
Status:	Unknown
Region:	09
Industry:	Oil and Gas
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110071160096
Facility Percent Minority:	27.521
Facility Derived Tribes:	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California - 24 mile(s)
Facility Population:	343.46
EPA Programs:	-
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06083
Facility Indian Country Flag:	N
Facility Collection Method:	-
Facility Derived HUC:	18060008
Facility Derived WBD:	180600080501
Facility Derived CD113:	24
Facility Derived CB2010:	060830020061201
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N

PACIFIC COAST ENERGY COMPANY LP (Continued) **1027401460**

AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	Y
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-

A2 **CHMIRS** **S105667952**
Target Property **1555 ORCUTT RD.** **N/A**
ORCUTT, CA 93455

Site 1 of 16 in cluster A

Actual: 1325 ft.
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	1555 ORCUTT RD.
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	0-1785
OES notification:	04/19/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported

(Continued) **S105667952**

Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Torch Operating Co.
Incident Date:	4/19/200012:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude Oil
BBLS:	1
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Hole developed in a 4" pipeline and spilled to ground, contained on facility in containment basin.

A3
Target Property **1555 ORCUTT RD**
ORCUTT, CA 93455

CHMIRS **S105648276**
N/A

Site 2 of 16 in cluster A

Actual:
1325 ft.

Focus Map:
5

CHMIRS:

Name:	Not reported
Address:	1555 ORCUTT ROAD
City,State,Zip:	ORCUTT, CA
OES Incident Number:	1-4009
OES notification:	07/04/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Oil Field
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	1030
Year:	2011
Agency:	BreitBurn Energy
Incident Date:	7/4/2011
Admin Agency:	Santa Barbara County Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	1.5

(Continued) **S105648276**

Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The caller is reporting a seep of oil from an oil well site.
Name:	Not reported
Address:	1555 ORCUTT RD
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	7-4749
OES notification:	11/29/1997
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported

(Continued) **S105648276**

Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	Tourch Operating
Incident Date:	11/29/199712:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced Water
BBLS:	46
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Vent line for a meter plugged causing valve to vent on a test valve

---

A4 **CHMIRS** **S105882248**
Target Property **1555 ORCHID HILL RD.**
SANTA MARIA, CA 93455 **N/A**

Site 3 of 16 in cluster A

Actual:
1325 ft.

Focus Map:
5

CHMIRS:

Name:	Not reported
Address:	1555 ORCHID HILL RD.
City,State,Zip:	SANTA MARIA, CA 93455
OES Incident Number:	6-6297
OES notification:	10/24/2006
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

(Continued) **S105882248**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	Breitburn Energy Company
Incident Date:	10/24/2006 12:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Oil
Gallons:	5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A pump over filled storage tank and spilled oil and water.
Name:	Not reported
Address:	1555 ORCHID HILL RD.
City,State,Zip:	SANTA MARIA, CA

(Continued) **S105882248**

OES Incident Number:	2-0320
OES notification:	01/17/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Nuevo Energy
Incident Date:	1/17/200212:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced water
BBLS:	1.3
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported

(Continued) **S105882248**

#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per caller, release occurred due to corrosion of a pipeline.

A5 **CHMIRS** **S109047251**
Target Property **CAREAGA WELL #37 1555 ORCUTT HILL RD** **N/A**
SANTA MARIA, CA 93456

Site 4 of 16 in cluster A

Actual: **1325 ft.**
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	CAREAGA WELL #37 1555 ORCUTT HILL RD
City,State,Zip:	SANTA MARIA, CA 93456
OES Incident Number:	7-4658
OES notification:	08/03/2007
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported

(Continued) **S109047251**

Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2007
Agency:	Phoenix Energy LLC
Incident Date:	8/3/2007 12:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude Oil
BBLS:	20
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Stuffing box failure on the well head caused this spill

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A6 **CHMIRS** **S110418268**
Target Property **1555 ORCHARD HILL RD., ORCHARD HILL, NEW LOVE 30 WELL SANTA MARIA, CA** **N/A**

Site 5 of 16 in cluster A

Actual: 1325 ft.
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	1555 ORCHARD HILL RD., ORCHARD HILL, NEW LOVE 30 WELL
City,State,Zip:	SANTA MARIA, CA
OES Incident Number:	08-5874
OES notification:	08/13/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported

(Continued) **S110418268**

Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Oil Field
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	0830
Year:	2008
Agency:	Breitburn Energy Co.
Incident Date:	8/13/2008
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The caller is reporting oil exiting the well cellar from unknown source. The spill is contained on site.

A7 **CHMIRS** **S109036450**
Target Property **1555 ORCHID HILL RD**
SANTA MARIA, CA 93455 **N/A**

Site 6 of 16 in cluster A

Actual: **1325 ft.**

Focus Map: **5**

CHMIRS:

Name:	Not reported
Address:	1555 ORCHID HILL RD
City,State,Zip:	SANTA MARIA, CA 93455
OES Incident Number:	6-2260
OES notification:	04/14/2006
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	Breitburn Energy Co.
Incident Date:	4/14/2006 12:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced Water
BBLS:	43

(Continued) **S109036450**

Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Due to the sling on the pumping unit caused uneven wear on the stuffing box seal causing a release. It spilled onto dirt at the location site. Clean up is in process.

A8 **CHMIRS** **S109044607**
Target Property **OIL WELL NEWLOVE # 91 @ 1555 ORCUTT HILL RD.** **N/A**
SANTA MARIA, CA

Site 7 of 16 in cluster A

Actual: **1325 ft.**

Focus Map: **5**

CHMIRS:

Name:	Not reported
Address:	OIL WELL NEWLOVE # 91 @ 1555 ORCUTT HILL RD.
City,State,Zip:	SANTA MARIA, CA
OES Incident Number:	6-7410
OES notification:	12/15/2006
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported

(Continued) **S109044607**

Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party,Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	Breitburn Energy
Incident Date:	12/15/2006 12:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude oil and produced water
BBLS:	10
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The caller stated this release was caused by a process vessel collapsing, cause is under investigation.

A9 **CHMIRS** **S110418269**
Target Property **1555 ORCHID HILL ROAD, NEWLOVE TANK BATTERY** **N/A**
ORCUTT, CA 93455

Site 8 of 16 in cluster A

Actual: **1325 ft.**
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	1555 ORCHID HILL ROAD, NEWLOVE TANK BATTERY
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	08-2268
OES notification:	03/23/2008
OES Date:	Not reported
OES Time:	Not reported

(Continued) **S110418269**

Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	1630
Year:	2008
Agency:	Bright Burn Energy
Incident Date:	3/23/2008
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	3
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported

(Continued) **S110418269**

Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states a motor operated valve on a metering skid malfunctioned, resulting in the release of substance into secondary containment. Clean up is underway with a vacuum truck, backhoe, and a hand crew on scene.

A10 **CHMIRS** **S117455238**
Target Property **1555 ORCUTT RD., WELL # CAL COAST 24** **N/A**
ORCUTT, CA 93455

Site 9 of 16 in cluster A

Actual: 1325 ft.
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	1555 ORCUTT RD., WELL # CAL COAST 24
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	15-0098
OES notification:	01/07/2015
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Oil Field
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported

(Continued) **S117455238**

Type:	PETROLEUM
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	830
Year:	2015
Agency:	Pacific Coast Energy Co.
Incident Date:	01/07/2015
Admin Agency:	Santa Barbara County Environmental Health Services
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Produced Water/Crude Oil
Quantity Released:	78
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states that a malfunction on an injector caused the release. Release is 77.22 Bbls of produced water and 0.78 Bbls of crude oil. No waterways or drains impacted.

A11 **CHMIRS** **S118738150**
Target Property **ORCUTT HILL OIL FIELD, 1555 ORCUTT HILL ROAD** **N/A**
ORCUTT, CA 93455

Site 10 of 16 in cluster A

Actual: **1325 ft.**
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	ORCUTT HILL OIL FIELD, 1555 ORCUTT HILL ROAD
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	16-1667
OES notification:	03/17/2016
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported

(Continued) **S118738150**

More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Oil Field
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	1945
Year:	2016
Agency:	Pacific Coast Energy
Incident Date:	03/16/2016
Admin Agency:	Santa Barbara County Environmental Health Services
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Oil & Water Mixture
Quantity Released:	1
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Caller stated that they have a release of less then 1 Bbl.(s) of an Oil & Water mixture due to

(Continued) **S118738150**

natural seepage, caller stated that the release is on Orcutt Hill Oil Field, caller stated that they will be setting a new can to contain the release, no waterw

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A12 **CHMIRS** **S110423245**
Target Property **NEWLOVE 32 WELL SITE, 1555 ORCUTT HILL ROAD, ORCUTT HILL OIL ORCUTT, CA 93455** **N/A**

Site 11 of 16 in cluster A

Actual: **1325 ft.**

Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	NEWLOVE 32 WELL SITE, 1555 ORCUTT HILL ROAD, ORCUTT HILL OIL FIELD
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	08-5394
OES notification:	07/24/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Oil Field
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	0700
Year:	2008
Agency:	Breitburn Energy
Incident Date:	7/24/2008
Admin Agency:	Santa Barbara County Environmental Health

(Continued) **S110423245**

Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states a leak from the well head resulted in the release of substance. Substance made it into the a seasonal dry creek bed that currently does not have water in it and on site personnel have contained substance with oil spill pads. Also, substance is contained within the ground adjacent to the well head and the seasonal dry creek bed, thus it will not impact any waterways.

A13 **CHMIRS** **S110423475**
Target Property **ORCHID HILL OIL FIELD, 1555 ORCHID HILL RD** **N/A**
SANTA MARIA, CA 93455

Site 12 of 16 in cluster A

Actual: 1325 ft.
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	ORCHID HILL OIL FIELD, 1555 ORCHID HILL RD
City,State,Zip:	SANTA MARIA, CA 93455
OES Incident Number:	08-3273
OES notification:	05/05/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported

(Continued) **S110423475**

Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Oil Field
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	1430
Year:	2008
Agency:	Breitburn Energy
Incident Date:	5/5/2008
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	2
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP states that a gasket failed and caused a release of crude oil into containment. Clean up is in process.

A14
Target Property **1555 OCRUTT HILL ROAD**
SANTA MARIA, CA 93455

Site 13 of 16 in cluster A

Actual: **1325 ft.**

Focus Map: **5**

CHMIRS **S109036449**
N/A

CHMIRS:

Name:	Not reported
Address:	1555 OCRUTT HILL ROAD
City,State,Zip:	SANTA MARIA, CA 93455
OES Incident Number:	7-6184
OES notification:	10/11/2007
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2007
Agency:	Brieitburn Energy
Incident Date:	10/11/2007 12:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced water
BBLS:	80

(Continued) **S109036449**

Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP States: The failure of an aluminium cam-lock fitting on a 500 barrel portable tank (FRAC tank) caused the release.

A15 **CHMIRS** **S106394670**
Target Property **ORCUTT HILL FIELD/1555 ORCUTT HILL RD., NEW LOVE INJECTION P** **N/A**
ORCUTT, CA 93455

Site 14 of 16 in cluster A

Actual: **1325 ft.**

Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	ORCUTT HILL FIELD/1555 ORCUTT HILL RD., NEW LOVE INJECTION PLANT AREA
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	1-4181
OES notification:	07/20/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported

(Continued) **S106394670**

Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Nuevo Energy Company
Incident Date:	7/20/200112:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced Water
BBLS:	4
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A backhoe accidentally ruptured a 10 water section of pipe.

A16 **CHMIRS** **S106393568**
Target Property **OCUTT HILL, FIELD SQUIRES #7 WELL, 1555 ORCUT HILL RD UNINCORPORATED COUNTY AREA, CA 93455** **N/A**

Site 15 of 16 in cluster A

Actual: 1325 ft.
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	OCUTT HILL, FIELD SQUIRES #7 WELL, 1555 ORCUT HILL RD
City,State,Zip:	UNINCORPORATED COUNTY AREA, CA 93455
OES Incident Number:	9-4477
OES notification:	10/22/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported

(Continued) **S106393568**

Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	Nuevo Energy
Incident Date:	10/22/199912:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	produced water
BBLS:	4.2
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported

(Continued) **S106393568**

Comments:	Not reported
Description:	Corrosion leak on a 3" water injection line. Line has been isolated and shut down. Repairs and cleanup in progress.

A17 **CHMIRS** **S105885247**
Target Property **1555 ORCUTT ROAD** **N/A**
ORCUTT, CA 93455

Site 16 of 16 in cluster A

Actual: **1325 ft.**
Focus Map: 5

CHMIRS:

Name:	Not reported
Address:	1555 ORCUTT ROAD
City,State,Zip:	ORCUTT, CA 93455
OES Incident Number:	2-3532
OES notification:	06/28/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Nuevo Energy
Incident Date:	6/28/200212:00:00 AM
Admin Agency:	Santa Barbara County Environmental Health

(Continued) **S105885247**

Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced water
BBLS:	138
Gallons:	30
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The oil and water are mixed. Equipment malfunction caused the release. The water/oil has flowed into an unknown name dry creek bed. Oil is recoverable but the produced water has sunk into the dirt.

B18 **BEACON SITE #4 AAF** **FUDS** **1024903481**
Target Property **ORCUTT, CA** **N/A**

Site 1 of 2 in cluster B

Actual: 1181 ft.
Focus Map: 5

FUDS:

EPA Region:	9
Installation ID:	CA99799F536600
Congressional District Number:	24
Name:	BEACON SITE #4 AAF
FUDS Number:	J09CA0238
City:	ORCUTT
State:	CA
County:	SANTA BARBARA
Object ID:	2212
USACE Division:	spd
USACE District:	spl
Status:	Properties without projects
Current Owner:	Priv: Private Union Oil Company Of Ca
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=53854
Eligibility:	Eligible
Has Projects:	no
NPL Status:	Not on the NPL
Project Required:	no
Feature Description:	This Site Was A Beacon Site.
Latitude:	34.83472222
Longitude:	-120.38222222

B19 **BEACON SITE #4 AAF** **ENVIROSTOR** **S109548261**
Target **N/A**
Property **ORCUTT, CA**

Site 2 of 2 in cluster B

Actual:
1177 ft.

Focus Map:
5

ENVIROSTOR:

Name:	BEACON SITE #4 AAF
Address:	Not reported
City,State,Zip:	ORCUTT, CA
Facility ID:	80000194
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	37
Senate:	21
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.83472
Longitude:	-120.3822
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F536600
Alias Type:	Federal Facility ID
Alias Name:	J09CA0238
Alias Type:	INPR
Alias Name:	80000194
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	08/03/1990
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

20 **SOLOMON HILLS** **CERS** **S132628288**
Target Property **SANTA MARIA, CA 93455** **N/A**

Actual: 1116 ft.
Focus Map: 5

CERS:

Name:	SOLOMON HILLS
Address:	Not reported
City,State,Zip:	SANTA MARIA, CA 93455
Site ID:	943198
CERS ID:	T10000022945
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	TOM REJZEK - SANTA BARBARA COUNTY
Entity Title:	Not reported
Affiliation Address:	2125 S. Centerpointe Parkway, Suite 333
Affiliation City:	Santa Maria
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	8053468216,

C21 **NEWBRIDGE RESOURCES, LLC** **UIC** **S130566110**
Target Property **SANTA BARBARA (County), CA** **N/A**

Site 1 of 3 in cluster C

Actual: 946 ft.
Focus Map: 9

UIC:

Name:	NEWBRIDGE RESOURCES, LLC
Address:	Not reported
City,State,Zip:	CA
API Number:	0408320317
Confidential Well:	No
Well Number:	B-5
Direction:	N
Lease Name:	Careaga
Field Name:	Orcutt
Area Name:	Main
Section:	32
Township:	09N
Range:	33W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Well Summary
Latitude:	34.81763
Longitude:	-120.3769
Well Type:	Water Disposal
Well Status:	Idle
Operator Code:	10379
Operator Name:	NewBridge Resources, LLC
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

C22 **CAREAGA LEASE - PHOENIX ENERGY** **FINDS** **1015889501**
Target Property **CAREAGA LEASE, ORCUTT HILL OILFIELD (10910)** **N/A**
N. SANTA BARBARA COU, CA 93456

Site 2 of 3 in cluster C

Actual: 933 ft.

Focus Map: 9

FINDS:
Registry ID: 110054195517

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES
Registry ID: 110071771857

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

C23 **CAREAGA LEASE - PHOENIX ENERGY** **EMI** **S109603555**
Target Property **CAREAGA LEASE, ORCUTT HILL OILFIELD (10910)** **CERS** **N/A**
N. SANTA BARBARA COU, CA 93456

Site 3 of 3 in cluster C

Actual: 933 ft.

Focus Map: 9

EMI:

Name:	CAREAGA LEASE - PHOENIX ENERGY
Address:	CAREAGA LEASE, ORCUTT HILL OILFIELD
City,State,Zip:	N. SANTA BARBARA COU, CA 93456
Year:	2006
County Code:	42
Air Basin:	SCC
Facility ID:	3062
Air District Name:	SB
SIC Code:	1311
Air District Name:	SANTA BARBARA COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	23.1
Reactive Organic Gases Tons/Yr:	12.60382
Carbon Monoxide Emissions Tons/Yr:	11.1
NOX - Oxides of Nitrogen Tons/Yr:	2.04
SOX - Oxides of Sulphur Tons/Yr:	.72
Particulate Matter Tons/Yr:	.6
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.6

Name:	CAREAGA LEASE - PHOENIX ENERGY
Address:	CAREAGA LEASE, ORCUTT HILL OILFIELD
City,State,Zip:	N. SANTA BARBARA COU, CA 93771
Year:	2007
County Code:	42
Air Basin:	SCC

CAREAGA LEASE - PHOENIX ENERGY (Continued) **S109603555**

Facility ID:	3062
Air District Name:	SB
SIC Code:	1311
Air District Name:	SANTA BARBARA COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	12.53453
Carbon Monoxide Emissions Tons/Yr:	13.01
NOX - Oxides of Nitrogen Tons/Yr:	2.39
SOX - Oxides of Sulphur Tons/Yr:	.84
Particulate Matter Tons/Yr:	.7
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.7

Name:	CAREAGA LEASE - PHOENIX ENERGY
Address:	CAREAGA LEASE, ORCUTT HILL OILFIELD
City,State,Zip:	N. SANTA BARBARA COU, CA 93456
Year:	2008
County Code:	42
Air Basin:	SCC
Facility ID:	3062
Air District Name:	SB
SIC Code:	1311
Air District Name:	SANTA BARBARA COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	23.06
Reactive Organic Gases Tons/Yr:	13.15843
Carbon Monoxide Emissions Tons/Yr:	13.73
NOX - Oxides of Nitrogen Tons/Yr:	2.52
SOX - Oxides of Sulphur Tons/Yr:	.89
Particulate Matter Tons/Yr:	.74
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.74

Name:	CAREAGA LEASE - PHOENIX ENERGY
Address:	CAREAGA LEASE, ORCUTT HILL OILFIELD (10910)
City,State,Zip:	N. SANTA BARBARA COU, CA 93456
Year:	2012
County Code:	42
Air Basin:	SCC
Facility ID:	1517
Air District Name:	SB
SIC Code:	1311
Air District Name:	SANTA BARBARA COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	30.650101
Reactive Organic Gases Tons/Yr:	14.668975302
Carbon Monoxide Emissions Tons/Yr:	23.049977
NOX - Oxides of Nitrogen Tons/Yr:	4.906114
SOX - Oxides of Sulphur Tons/Yr:	1.376478
Particulate Matter Tons/Yr:	1.147064
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.147064

CERS:

Name:	CAREAGA LEASE - PHOENIX ENERGY
Address:	CAREAGA LEASE, ORCUTT HILL OILFIELD

CAREAGA LEASE - PHOENIX ENERGY (Continued) **S109603555**

City,State,Zip: N. SANTA BARBARA COU, CA 93456
Site ID: 457839
CERS ID: 110054195517
CERS Description: US EPA Air Emission Inventory System (EIS)

24
SSE
1/8-1/4
0.133 mi.
704 ft.

NEWBRIDGE RESOURCES LLC - CAREAGA LEASE **CERS TANKS** **S129448238**
7930 GRACIOSA RD **N/A**
SANTA MARIA, CA 93455

Actual:
405 ft.

Focus Map:
11

CERS TANKS:
Name: NEWBRIDGE RESOURCES LLC - CAREAGA LEASE
Address: 7930 GRACIOSA RD
City,State,Zip: SANTA MARIA, CA 93455
Site ID: 612720
CERS ID: 10896454
CERS Description: Aboveground Petroleum Storage

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-25-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Santa Barbara County Environmental Health Services
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Justin Martin
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1555 Orcutt Hill Road
Affiliation City: Orcutt
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93455
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Justin Martin
Entity Title: EHS Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

NEWBRIDGE RESOURCES LLC - CAREAGA LEASE (Continued) **S129448238**

Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Newbridge Acquisitions Holding (NAH)
Entity Title: Not reported
Affiliation Address: 1555 Orcutt Hill Road
Affiliation City: Orcutt
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93455
Affiliation Phone: (805) 937-2576,

Affiliation Type Desc: Operator
Entity Name: Newbridge Resources, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (805) 478-4352,

Affiliation Type Desc: Property Owner
Entity Name: Pacific Coast Energy Company, LP
Entity Title: Not reported
Affiliation Address: 1555 Orcutt Hill Road
Affiliation City: Orcutt
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93455
Affiliation Phone: (805) 937-2576,

Affiliation Type Desc: CUPA District
Entity Name: Santa Barbara County Env Health
Entity Title: Not reported
Affiliation Address: 225 Camino del Remedio
Affiliation City: Santa Barbara
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93110
Affiliation Phone: (805) 681-4900,

Affiliation Type Desc: Environmental Contact
Entity Name: Justin Martin
Entity Title: Not reported
Affiliation Address: 1555 Orcutt Hill Road
Affiliation City: Orcutt
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93455
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: PACIFIC COAST ENERGY COMPANY LP
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

NEWBRIDGE RESOURCES LLC - CAREAGA LEASE (Continued) **S129448238**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

D25 **PEI - CAREAGA LEASE** **AST** **A100338276**
SSE **7980 GRACIOSA RD** **N/A**
1/8-1/4 **SANTA MARIA, CA**
0.200 mi.
1058 ft. **Site 1 of 2 in cluster D**

Actual: **403 ft.**
Focus Map: **11**

AST:
Name: PEI - CAREAGA LEASE
Address: 7980 GRACIOSA RD
City/Zip: SANTA MARIA,
Certified Unified Program Agencies: Santa Barbara
Owner: SANTA MARIA PACIFIC LLC
Total Gallons: 42,000
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported
Fax: Not reported
Mailing Address: Not reported
Mailing Address City: Not reported
Mailing Address State: Not reported
Mailing Address Zip Code: Not reported
Operator Name: Not reported
Operator Phone: Not reported
Owner Phone: Not reported
Owner Mail Address: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Country: Not reported
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

D26 **CAREAGA LEASE** **CUPA Listings** **S109438908**
SSE **7980 GRACIOSA RD** **NPDES** **N/A**
1/8-1/4 **SANTA MARIA, CA 93456** **CIWQS**
0.200 mi. **CERS**
1058 ft. **Site 2 of 2 in cluster D**

Actual: **403 ft.**
Focus Map: **11**

CUPA SANTA BARBARA:
Name: PEI - CAREAGA LEASE-INNACTIVE
Address: 7980 GRACIOSA RD
City,State,Zip: SANTA MARIA, CA 93455
Facility Id: FA0010327
Region: SANTA BARBARA

CAREAGA LEASE (Continued) **S109438908**

Cross Street:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Mailing Name:	SANTA MARIA PACIFIC LLC
Mailing Care Of:	PHOENIX ENERGY LLC
Mailing Address:	2400 PROFESSIONAL PKWY #209
Mailing City:	SANTA MARIA
Mailing State:	CA
Mailing Zip Code:	93455
Record Id:	PR0500378
Pe #:	2161
Current Status:	2

Name:	PEI - CAREAGA LEASE-INNACTIVE
Address:	7980 GRACIOSA RD
City,State,Zip:	SANTA MARIA, CA 93455
Facility Id:	FA0010327
Region:	SANTA BARBARA
Cross Street:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Mailing Name:	SANTA MARIA PACIFIC LLC
Mailing Care Of:	PHOENIX ENERGY LLC
Mailing Address:	2400 PROFESSIONAL PKWY #209
Mailing City:	SANTA MARIA
Mailing State:	CA
Mailing Zip Code:	93455
Record Id:	PR0509429
Pe #:	1704
Current Status:	2

NPDES:

Name:	CAREAGA LEASE
Address:	7980 GRACIOSA RD
City,State,Zip:	SANTA MARIA, CA 93456
Facility Status:	Active
NPDES Number:	CAS000001
Region:	3
Agency Number:	0
Regulatory Measure ID:	339356
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	3 42I021404
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/11/2008
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2811 Airpark Drive
Discharge Name:	Santa Maria Pacific LLC
Discharge City:	Santa Maria
Discharge State:	California
Discharge Zip:	93455
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported

CAREAGA LEASE (Continued) **S109438908**

Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	3
Regulatory Measure ID:	339356
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	3 42I021404
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	01/11/2008
Status:	Active
Status Date:	08/11/2011
Place Size:	1000
Place Size Unit:	Acres
Contact:	Laurie Tamura
Contact Title:	Permit and Dev. Manager
Contact Phone:	805-621-5626
Contact Phone Ext:	Not reported
Contact Email:	ltamura@santamariaenergy.com
Operator Name:	Santa Maria Pacific LLC
Operator Address:	2811 Airpark Drive
Operator City:	Santa Maria
Operator State:	California
Operator Zip:	93455
Operator Contact:	Laurie Tamura
Operator Contact Title:	Permit and Dev. Manager
Operator Contact Phone:	805-621-5626
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Ltamura@santamariaenergy.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	805-431-6713
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported

CAREAGA LEASE (Continued) **S109438908**

Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Antonio Creek
Certifier:	Laurie Tamura
Certifier Title:	Permit Manager
Certification Date:	26-JAN-15
Primary Sic:	1311-Crude Petroleum and Natural Gas
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	3
Regulatory Measure ID:	339356
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	3 42I021404
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/11/2008
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Santa Maria Pacific LLC
Discharge Address:	2811 Airpark Drive
Discharge City:	Santa Maria
Discharge State:	California
Discharge Zip:	93455
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported

CAREAGA LEASE (Continued) **S109438908**

Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	CAREAGA LEASE
Address:	7980 GRACIOSA ROAD
City,State,Zip:	SANTA MARIA, CA 93455
Facility Status:	Active
NPDES Number:	CAS000001
Region:	3
Agency Number:	0
Regulatory Measure ID:	549209
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	3 42I029749
Regulatory Measure Type:	Enrollee
Program Type:	Industrial

CAREAGA LEASE (Continued) **S109438908**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/11/2022
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1555 Orcutt Hill Road
Discharge Name:	Newbridge Resources
Discharge City:	Orcutt
Discharge State:	California
Discharge Zip:	93455
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

Name:	CAREAGA LEASE
Address:	7980 GRACIOSA RD
City,State,Zip:	SANTA MARIA, CA 93456
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	3 42I021404
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	08/11/2011
Operator Name:	Santa Maria Pacific LLC
Operator Address:	2811 Airpark Drive
Operator City:	Santa Maria
Operator State:	California
Operator Zip:	93455

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	3
Regulatory Measure ID:	339356
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	3 42I021404
Program Type:	Not reported

CAREAGA LEASE (Continued) **S109438908**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	01/11/2008
Status:	Active
Status Date:	08/11/2011
Place Size:	1000
Place Size Unit:	Acres
Contact:	Laurie Tamura
Contact Title:	Permit and Dev. Manager
Contact Phone:	805-621-5626
Contact Phone Ext:	Not reported
Contact Email:	ltamura@santamariaenergy.com
Operator Name:	Santa Maria Pacific LLC
Operator Address:	2811 Airpark Drive
Operator City:	Santa Maria
Operator State:	California
Operator Zip:	93455
Operator Contact:	Laurie Tamura
Operator Contact Title:	Permit and Dev. Manager
Operator Contact Phone:	805-621-5626
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Ltamura@santamariaenergy.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	805-431-6713
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported

CAREAGA LEASE (Continued) **S109438908**

Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Antonio Creek
Certifier:	Laurie Tamura
Certifier Title:	Permit Manager
Certification Date:	26-JAN-15
Primary Sic:	1311-Crude Petroleum and Natural Gas
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	3
Regulatory Measure ID:	339356
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	3 42I021404
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/11/2008
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Santa Maria Pacific LLC
Discharge Address:	2811 Airpark Drive
Discharge City:	Santa Maria
Discharge State:	California
Discharge Zip:	93455
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported

CAREAGA LEASE (Continued) **S109438908**

Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	CAREAGA LEASE
Address:	7980 GRACIOSA ROAD
City,State,Zip:	SANTA MARIA, CA 93455
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	3 42I029749
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	05/11/2022
Operator Name:	Newbridge Resources
Operator Address:	1555 Orcutt Hill Road
Operator City:	Orcutt
Operator State:	California

CAREAGA LEASE (Continued) **S109438908**

Operator Zip: 93455

CIWQS:
Name: Careaga Lease
Address: 7980 GRACIOSA RD
City,State,Zip: SANTA MARIA, CA 93456
Agency: Santa Maria Pacific LLC
Agency Address: 2811 Airpark Drive, Santa Maria, CA 93455
Place/Project Type: Industrial - Crude Petroleum and Natural Gas
SIC/NAICS: 1311
Region: 3
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 3 42I021404
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 01/11/2008
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.8138
Longitude: -120.39642

Name: Careaga Lease
Address: 7980 GRACIOSA ROAD
City,State,Zip: SANTA MARIA, CA 93455
Agency: Newbridge Resources
Agency Address: 1555 Orcutt Hill Road, Orcutt, CA 93455
Place/Project Type: Industrial - Crude Petroleum and Natural Gas
SIC/NAICS: 1311
Region: 3
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 3 42I029749
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 05/11/2022
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.8131
Longitude: -120.4032

CAREAGA LEASE (Continued) **S109438908**

CERS:
Name: CAREAGA LEASE
Address: 7980 GRACIOSA RD
City,State,Zip: SANTA MARIA, CA 93456
Site ID: 528635
CERS ID: 710912
CERS Description: Industrial Facility Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Santa Maria Pacific LLC
Entity Title: Operator
Affiliation Address: 2811 Airpark Drive
Affiliation City: Santa Maria
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93455
Affiliation Phone: ,

Name: CAREAGA LEASE
Address: 7980 GRACIOSA ROAD
City,State,Zip: SANTA MARIA, CA 93455
Site ID: 619764
CERS ID: 904062
CERS Description: Industrial Facility Storm Water

Count: 9 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ORCUTT	S113998677		INTERSECTION OF TOKYO ROAD AND GRACIOSA	93455	CHMIRS
ORCUTT	S127596631		GRACIOSA RD, WHITE HILLS VINEYARD, 34.785008 -120.434131	93455	CHMIRS
ORCUTT	S109043852		WELL B- 7980 GRACIOSA ROAD, CARIAGA LEASE		CHMIRS
ORCUTT	S105884050		ESCOLLE OIL LEASE. GRACIOSA RD.		CHMIRS
ORCUTT	S111756570		ON GRACIOSA ROAD, 1.5 MILES SOUTH OF WHERE HIGHWAY 1 AND HIGHWAY 135 SPLIT		CHMIRS
ORCUTT	S123296095		RIGHT BRANCH AND GRACIOSA STREET		CHMIRS
SANTA MARIA	92020370		GRACIOSA RD		HMIRS
SANTA MARIA	S122214977		ESCOLLE LEASE, 7275 GRACIOSA RD.	93429	CHMIRS
UNINCORPORATED COUN	S106392957		GRACIOSA RD 5MI SOUTH OF RICE RANCH RD VICINITY OF ORCUTT.	93455	CHMIRS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 12/18/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 2

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/20/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/03/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/11/2024
Date Data Arrived at EDR: 11/25/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 85

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/29/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/29/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/10/2025
Date Data Arrived at EDR: 06/12/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 4

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 04/08/2025
Date Data Arrived at EDR: 04/23/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 1

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 05/13/2025
Date Data Arrived at EDR: 05/22/2025
Date Made Active in Reports: 05/27/2025
Number of Days to Update: 5

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/26/2025
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 12/06/2024
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/11/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/21/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 02/20/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 68

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 02/20/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 68

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/11/2025
Date Data Arrived at EDR: 06/12/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 4

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/18/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 72

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/08/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/03/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/28/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 7
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/15/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/13/2025
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 82
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/25/2025
Date Data Arrived at EDR: 05/01/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/01/2025
Date Data Arrived at EDR: 01/17/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 02/26/2025
Date Data Arrived at EDR: 03/03/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 05/07/2025
Date Data Arrived at EDR: 05/07/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 27

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 90

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/10/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 89
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 84

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/07/2025
Number of Days to Update: 16

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 02/12/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 15

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/15/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 02/19/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 27

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 30

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/02/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 50

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 06/04/2024
Date Data Arrived at EDR: 11/22/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 88

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 05/28/2025
Date Data Arrived at EDR: 05/28/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 6

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/22/2025
Date Data Arrived at EDR: 05/05/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 16

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/05/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/21/2024
Date Data Arrived at EDR: 12/27/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 02/14/2025
Date Data Arrived at EDR: 03/11/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 84

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/13/2025
Date Data Arrived at EDR: 02/13/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 75

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 03/07/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/23/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 04/17/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/15/2024
Date Data Arrived at EDR: 03/06/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 89

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/05/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

CUPA LIV-PLE: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 09/19/2024
Date Data Arrived at EDR: 11/05/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 87

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/22/2025
Date Data Arrived at EDR: 05/22/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 8

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

DRYCLEAN SHASTA: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 08/29/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69

Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQUIN: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77
Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 09/10/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/25/2024
Number of Days to Update: 75
Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RVR: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88
Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SONOMA: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 08/23/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 71
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81
Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/06/2024
Number of Days to Update: 72
Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN LAKE: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76
Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77
Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDOCINO: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 71
Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 09/03/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69
Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 10/02/2024
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 78
Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76
Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89
Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 72
Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

DRYCLEAN BAY AREA: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN N COAST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75
Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SIERRA: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 05/05/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTERY BAY: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/26/2024
Number of Days to Update: 76
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77
Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/14/2024
Number of Days to Update: 78
Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/26/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 30
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 03/11/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 73
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/13/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73
Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/31/2025
Date Data Arrived at EDR: 02/13/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 81

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/10/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/10/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 06/20/2025
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/19/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 03/31/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/03/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 75

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 05/29/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/02/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/05/2025
Date Data Arrived at EDR: 03/06/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 02/27/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 05/29/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 05/06/2025
Date Data Arrived at EDR: 05/06/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/19/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 72

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/11/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/16/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 79

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/23/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 70

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/06/2025
Date Data Arrived at EDR: 01/07/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 71

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/08/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/17/2024
Number of Days to Update: 75

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/11/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 07/09/2024
Date Made Active in Reports: 09/27/2024
Number of Days to Update: 80

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation LA County List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 09/26/2024
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/17/2024
Date Made Active in Reports: 01/07/2025
Number of Days to Update: 82
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/12/2025
Date Data Arrived at EDR: 05/14/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 33

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 03/27/2025
Date Made Active in Reports: 06/20/2025
Number of Days to Update: 85

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 7

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Orange County
Petroleum and non-petroleum spills.

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 36

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 75
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 15
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/06/2025
Date Data Arrived at EDR: 03/07/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 76
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2025
Date Data Arrived at EDR: 01/31/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 77

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/29/2025
Date Data Arrived at EDR: 05/29/2025
Date Made Active in Reports: 06/18/2025
Number of Days to Update: 20

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 04/28/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2024
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 72

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
A listing of properties that fall within a Maher Ordinance, for all of San Francisco. The Maher Ordinance requires San Francisco Department of Public Health (DPH) oversight for the characterization and mitigation of hazardous substances found in soil, soil vapor, and groundwater in areas designated within the Maher map. The Maher map includes areas with current or historical industrial use or zoning; areas within 100 feet of current or historical underground tanks; filled former Bay, marsh, or creek areas; or areas within 150 feet of a current or former elevated highway. City of San Francisco Planning.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 04/02/2025
Number of Days to Update: 78

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/06/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/14/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 73
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SITE MIT SANTA CRUZ: Site Mitigation Santa Cruz County List
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20
Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/05/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 02/11/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 79

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 11/21/2024
Date Data Arrived at EDR: 01/21/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 72

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/11/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 04/01/2025
Date Data Arrived at EDR: 04/09/2025
Date Made Active in Reports: 04/23/2025
Number of Days to Update: 14

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 80

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/19/2025
Date Data Arrived at EDR: 03/25/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 3

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/17/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/02/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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Solomon Hills Phase I
Santa Maria, CA 93455

Inquiry Number: 8028589.2w
June 24, 2025

EDR DataMap™ Well Search Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK VERSION 2.1
SUMMARY

FEDERAL DATABASE WELL INFORMATION

MAP ID	WELL ID
1	USGS40000155646
1	USGS40000155633
2	USGS40000155594
3	USGS40000155585
5	USGS40000155532
9	USGS40000155062
11	USGS40000154649
12	USGS40000154620
14	USGS40000154515
15	USGS40000154496
16	USGS40000154492
17	USGS40000154485
20	USGS40000154417
21	USGS40000154386
23	USGS40000154340
25	USGS40000154313
28	USGS40000154258

STATE WATER WELL INFORMATION

MAP ID	WELL ID
4	CADDW2000001093
4	CAUSGSN00009253
4	CAUSGS000002667
5	CAUSGSN00011113
5	CADWR9000013760
5	CADWR0000015801
5	CADDW2000002572
6	9333
7	CAEDF0000015894
7	CAEDF0000027458
8	CAEDF0000024688
8	CAEDF0000028963
10	CADDW2000018781
11	CAEDF0000028362
11	CAEDF0000005308
12	CAUSGSN00013512
13	CAEDF0000027526
14	CAUSGSN00019453
15	CADWR9000013163
15	CAUSGSN00017754
15	CAEDF0000025167
18	CAEDF0000025953
19	CAEDF0000019803
22	CAEDF0000026012
24	CAEDF0000026437
26	CAEDF0000025268
27	CAEDF0000004925
29	CAEDF0000011622
29	CAEDF0000003716
29	CAEDF0000030434
30	CAEDF0000027584

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
1	CAOG17000220602

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
2	CAOG17000063695
3	CAOG17000063026
4	CAOG17000063369
5	CAOG17000201727
6	CAOG17000201715
7	CAOG17000201720
8	CAOG17000063436
9	CAOG17000201249
10	CAOG17000201742
11	CAOG17000201517
12	CAOG17000063580
13	CAOG17000201725
14	CAOG17000201796
15	CAOG17000201341
16	CAOG17000201885
17	CAOG17000201719
18	CAOG17000201746
19	CAOG17000201769
20	CAOG17000201262
21	CAOG17000201747
22	CAOG17000201887
23	CAOG17000201805
24	CAOG17000201384
25	CAOG17000063684
26	CAOG17000201427
27	CAOG17000201444
28	CAOG17000201929
29	CAOG17000201969
30	CAOG17000201420
31	CAOG17000201781
32	CAOG17000201729
33	CAOG17000201957
34	CAOG17000063068
35	CAOG17000201926
36	CAOG17000201821
37	CAOG17000201804
38	CAOG17000201388
39	CAOG17000201856
40	CAOG17000201971
41	CAOG17000063253
42	CAOG17000063689
43	CAOG17000201278
44	CAOG17000063069
45	CAOG17000201459
46	CAOG17000201924
47	CAOG17000201855
48	CAOG17000201917
49	CAOG17000201916

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
50	CAOG17000201914
51	CAOG17000201892
52	CAOG17000201361
53	CAOG17000201928
54	CAOG17000201912
55	CAOG17000201882
56	CAOG17000201473
57	CAOG17000201940
58	CAOG17000201753
59	CAOG17000201721
60	CAOG17000201883
61	CAOG17000201246
62	CAOG17000201466
63	CAOG17000201859
64	CAOG17000201778
65	CAOG17000201850
66	CAOG17000201987
67	CAOG17000201770
68	CAOG17000201383
69	CAOG17000201959
70	CAOG17000201954
71	CAOG17000201627
72	CAOG17000062374
73	CAOG17000063076
74	CAOG17000062420
75	CAOG17000201819
76	CAOG17000201497
77	CAOG17000201806
78	CAOG17000201764
79	CAOG17000201858
80	CAOG17000201717
81	CAOG17000201812
82	CAOG17000201970
83	CAOG17000201408
84	CAOG17000201898
85	CAOG17000201932
86	CAOG17000201886
87	CAOG17000201442
88	CAOG17000201446
89	CAOG17000201288
90	CAOG17000062254
91	CAOG17000201958
92	CAOG17000201760
93	CAOG17000201456
94	CAOG17000201730
95	CAOG17000201907
96	CAOG17000201845
97	CAOG17000201745
98	CAOG17000201396
99	CAOG17000201791
100	CAOG17000201663
101	CAOG17000201815
102	CAOG17000062464
103	CAOG17000201955

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
104	CAOG17000201945
105	CAOG17000201820
106	CAOG17000062344
107	CAOG17000201248
108	CAOG17000201263
109	CAOG17000201799
110	CAOG17000201931
111	CAOG17000201375
112	CAOG17000201569
113	CAOG17000201340
114	CAOG17000201462
115	CAOG17000201816
116	CAOG17000201759
117	CAOG17000201772
118	CAOG17000201505
119	CAOG17000201695
120	CAOG17000201290
121	CAOG17000201531
122	CAOG17000062002
123	CAOG17000063310
124	CAOG17000201933
125	CAOG17000201986
126	CAOG17000063876
127	CAOG17000201301
128	CAOG17000201584
129	CAOG17000201810
130	CAOG17000201755
131	CAOG17000201884
132	CAOG17000201910
133	CAOG17000201577
134	CAOG17000201354
135	CAOG17000201785
136	CAOG17000201518
137	CAOG17000062007
138	CAOG17000201795
139	CAOG17000201749
140	CAOG17000201398
141	CAOG17000201558
142	CAOG17000201461
143	CAOG17000201877
144	CAOG17000201532
145	CAOG17000201743
146	CAOG17000062519
147	CAOG17000201702
148	CAOG17000201961
149	CAOG17000201245
150	CAOG17000201732
151	CAOG17000201596
152	CAOG17000201794
153	CAOG17000201255
154	CAOG17000201467
155	CAOG17000201666
156	CAOG17000201281
157	CAOG17000201949

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
158	CAOG17000201425
159	CAOG17000201777
160	CAOG17000201697
161	CAOG17000201400
162	CAOG17000201557
163	CAOG17000201469
164	CAOG17000201243
165	CAOG17000201435
166	CAOG17000201418
167	CAOG17000201864
168	CAOG17000201656
169	CAOG17000201376
170	CAOG17000201390
171	CAOG17000201978
172	CAOG17000201242
173	CAOG17000201956
174	CAOG17000201896
175	CAOG17000201412
176	CAOG17000201934
177	CAOG17000201382
178	CAOG17000201363
179	CAOG17000201366
180	CAOG17000201580
181	CAOG17000201659
182	CAOG17000201977
183	CAOG17000201241
184	CAOG17000201581
185	CAOG17000201840
186	CAOG17000201838
187	CAOG17000201314
188	CAOG17000201839
189	CAOG17000201312
190	CAOG17000201244
191	CAOG17000201313
192	CAOG17000201315
193	CAOG17000201316
194	CAOG17000201386
195	CAOG17000201319
196	CAOG17000201317
197	CAOG17000201318
198	CAOG17000201321
199	CAOG17000201322
200	CAOG17000201320
201	CAOG17000201975
202	CAOG17000201413
203	CAOG17000201646
204	CAOG17000201974
205	CAOG17000201399
206	CAOG17000201976
207	CAOG17000201325
208	CAOG17000201323
209	CAOG17000201324
210	CAOG17000201841
211	CAOG17000201293

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
212	CAOG17000201326
213	CAOG17000201592
214	CAOG17000201355
215	CAOG17000201667
216	CAOG17000201391
217	CAOG17000201567
218	CAOG17000201571
219	CAOG17000201294
220	CAOG17000201897
221	CAOG17000201365
222	CAOG17000201364
223	CAOG17000201661
224	CAOG17000201875
225	CAOG17000201570
226	CAOG17000201367
227	CAOG17000201699
228	CAOG17000201402
229	CAOG17000201562
230	CAOG17000201675
231	CAOG17000201643
232	CAOG17000201823
233	CAOG17000201824
234	CAOG17000201686
235	CAOG17000201825
236	CAOG17000201827
237	CAOG17000201826
238	CAOG17000201588
239	CAOG17000201828
240	CAOG17000201830
241	CAOG17000201829
242	CAOG17000201831
243	CAOG17000201833
244	CAOG17000201832
245	CAOG17000201834
246	CAOG17000201835
247	CAOG17000201836
248	CAOG17000201837
249	CAOG17000201670
250	CAOG17000201966
251	CAOG17000201593
252	CAOG17000201392
253	CAOG17000201568
254	CAOG17000201589
255	CAOG17000201349
256	CAOG17000201716
257	CAOG17000201572
258	CAOG17000201662
259	CAOG17000201561
260	CAOG17000201356
261	CAOG17000201538
262	CAOG17000201537
263	CAOG17000201534
264	CAOG17000201541
265	CAOG17000201327

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
266	CAOG17000201536
267	CAOG17000201535
268	CAOG17000201330
269	CAOG17000201528
270	CAOG17000201533
271	CAOG17000201529
272	CAOG17000201542
273	CAOG17000201543
274	CAOG17000201544
275	CAOG17000201332
276	CAOG17000201333
277	CAOG17000201334
278	CAOG17000201502
279	CAOG17000201503
280	CAOG17000201501
281	CAOG17000201553
282	CAOG17000201292
283	CAOG17000201818
284	CAOG17000201526
285	CAOG17000201235
286	CAOG17000201574
287	CAOG17000201527
288	CAOG17000201303
289	CAOG17000201495
290	CAOG17000201701
291	CAOG17000201573
292	CAOG17000201524
293	CAOG17000201564
294	CAOG17000201500
295	CAOG17000201545
296	CAOG17000201304
297	CAOG17000201548
298	CAOG17000201523
299	CAOG17000201522
300	CAOG17000201302
301	CAOG17000201900
302	CAOG17000201465
303	CAOG17000201849
304	CAOG17000201549
305	CAOG17000201550
306	CAOG17000201504
307	CAOG17000201475
308	CAOG17000201508
309	CAOG17000201509
310	CAOG17000201513
311	CAOG17000201493
312	CAOG17000201563
313	CAOG17000201516
314	CAOG17000201494
315	CAOG17000201510
316	CAOG17000201368
317	CAOG17000201296
318	CAOG17000201305
319	CAOG17000201511

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
320	CAOG17000201512
321	CAOG17000201307
322	CAOG17000201337
323	CAOG17000201299
324	CAOG17000201298
325	CAOG17000201521
326	CAOG17000201868
327	CAOG17000201857
328	CAOG17000201866
329	CAOG17000201300
330	CAOG17000201814
331	CAOG17000201817
332	CAOG17000201525
333	CAOG17000201515
334	CAOG17000201950
335	CAOG17000201948
336	CAOG17000201653
337	CAOG17000201411
338	CAOG17000201352
339	CAOG17000201422
340	CAOG17000201357
341	CAOG17000201258
342	CAOG17000201585
343	CAOG17000201605
344	CAOG17000010445
345	CAOG17000201784
346	CAOG17000201930
347	CAOG17000201297
348	CAOG17000201484
349	CAOG17000201483
350	CAOG17000201481
351	CAOG17000201482
352	CAOG17000201479
353	CAOG17000201295
354	CAOG17000201480
355	CAOG17000201936
356	CAOG17000201913
357	CAOG17000201923
358	CAOG17000201491
359	CAOG17000201486
360	CAOG17000201492
361	CAOG17000201485
362	CAOG17000201487
363	CAOG17000201488
364	CAOG17000201490
365	CAOG17000201489
366	CAOG17000201514
367	CAOG17000201651
368	CAOG17000201579
369	CAOG17000201640
370	CAOG17000201669
371	CAOG17000201688
372	CAOG17000201684
373	CAOG17000201668

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
374	CAOG17000201343
375	CAOG17000201703
376	CAOG17000201405
377	CAOG17000201984
378	CAOG17000201252
379	CAOG17000201403
380	CAOG17000201254
381	CAOG17000201348
382	CAOG17000201888
383	CAOG17000201906
384	CAOG17000201972
385	CAOG17000201345
386	CAOG17000201291
387	CAOG17000201414
388	CAOG17000201748
389	CAOG17000201642
390	CAOG17000201395
391	CAOG17000201679
392	CAOG17000201905
393	CAOG17000201346
394	CAOG17000201694
395	CAOG17000201236
396	CAOG17000201575
397	CAOG17000201762
398	CAOG17000201256
399	CAOG17000201623
400	CAOG17000201765
401	CAOG17000201253
402	CAOG17000201983
403	CAOG17000201266
404	CAOG17000201406
405	CAOG17000201870
406	CAOG17000201415
407	CAOG17000003733
408	CAOG17000201257
409	CAOG17000201920
410	CAOG17000201351
411	CAOG17000201576
412	CAOG17000201582
413	CAOG17000201468
414	CAOG17000201733
415	CAOG17000201452
416	CAOG17000201788
417	CAOG17000201911
418	CAOG17000201985
419	CAOG17000201893
420	CAOG17000201903
421	CAOG17000201238
422	CAOG17000201645
423	CAOG17000201566
424	CAOG17000201901
425	CAOG17000201881
426	CAOG17000201362
427	CAOG17000201880

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
428	CAOG17000201775
429	CAOG17000201559
430	CAOG17000201787
431	CAOG17000201611
432	CAOG17000201918
433	CAOG17000201268
434	CAOG17000201710
435	CAOG17000201798
436	CAOG17000201555
437	CAOG17000201600
438	CAOG17000201622
439	CAOG17000201625
440	CAOG17000010878
441	CAOG17000201935
442	CAOG17000201229
443	CAOG17000201259
444	CAOG17000201385
445	CAOG17000201234
446	CAOG17000201633
447	CAOG17000201776
448	CAOG17000201652
449	CAOG17000201744
450	CAOG17000201767
451	CAOG17000201650
452	CAOG17000201477
453	CAOG17000201696
454	CAOG17000201973
455	CAOG17000201519
456	CAOG17000201560
457	CAOG17000201474
458	CAOG17000201678
459	CAOG17000201811
460	CAOG17000201951
461	CAOG17000201982
462	CAOG17000201704
463	CAOG17000201782
464	CAOG17000201700
465	CAOG17000201404
466	CAOG17000201628
467	CAOG17000201685
468	CAOG17000201706
469	CAOG17000201735
470	CAOG17000201754
471	CAOG17000201409
472	CAOG17000201239
473	CAOG17000201967
474	CAOG17000201979
475	CAOG17000201953
476	CAOG17000201738
477	CAOG17000201378
478	CAOG17000201507
479	CAOG17000201498
480	CAOG17000201377
481	CAOG17000201267

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
482	CAOG17000201228
483	CAOG17000201851
484	CAOG17000201614
485	CAOG17000201615
486	CAOG17000201616
487	CAOG17000201617
488	CAOG17000201654
489	CAOG17000201618
490	CAOG17000201373
491	CAOG17000201619
492	CAOG17000201620
493	CAOG17000201455
494	CAOG17000201649
495	CAOG17000201641
496	CAOG17000010226
497	CAOG17000201647
498	CAOG17000201658
499	CAOG17000201687
500	CAOG17000201980
501	CAOG17000201631
502	CAOG17000201848
503	CAOG17000201689
504	CAOG17000201889
505	CAOG17000201429
506	CAOG17000201430
507	CAOG17000201431
508	CAOG17000201401
509	CAOG17000201530
510	CAOG17000201433
511	CAOG17000201428
512	CAOG17000201432
513	CAOG17000201671
514	CAOG17000201846
515	CAOG17000201419
516	CAOG17000201674
517	CAOG17000201705
518	CAOG17000201644
519	CAOG17000201607
520	CAOG17000201698
521	CAOG17000201925
522	CAOG17000201813
523	CAOG17000201463
524	CAOG17000201282
525	CAOG17000201270
526	CAOG17000201450
527	CAOG17000201680
528	CAOG17000201464
529	CAOG17000201655
530	CAOG17000201458
531	CAOG17000201451
532	CAOG17000201275
533	CAOG17000201939
534	CAOG17000201271
535	CAOG17000201240

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
536	CAOG17000201677
537	CAOG17000201393
538	CAOG17000201336
539	CAOG17000201981
540	CAOG17000201286
541	CAOG17000201606
542	CAOG17000201283
543	CAOG17000201279
544	CAOG17000201230
545	CAOG17000201272
546	CAOG17000201276
547	CAOG17000201287
548	CAOG17000201284
549	CAOG17000201280
550	CAOG17000201277
551	CAOG17000201603
552	CAOG17000201874
553	CAOG17000201273
554	CAOG17000201626
555	CAOG17000201554
556	CAOG17000201690
557	CAOG17000201353
558	CAOG17000201609
559	CAOG17000201915
560	CAOG17000008924
561	CAOG17000201873
562	CAOG17000201718
563	CAOG17000201226
564	CAOG17000201728
565	CAOG17000201862
566	CAOG17000201807
567	CAOG17000201797
568	CAOG17000201869
569	CAOG17000201860
570	CAOG17000201938
571	CAOG17000201944
572	CAOG17000201842
573	CAOG17000201681
574	CAOG17000201714
575	CAOG17000201876
576	CAOG17000201594
577	CAOG17000201648
578	CAOG17000201676
579	CAOG17000201707
580	CAOG17000201660
581	CAOG17000201359
582	CAOG17000201439
583	CAOG17000201610
584	CAOG17000201344
585	CAOG17000201331
586	CAOG17000201434
587	CAOG17000201899
588	CAOG17000201424
589	CAOG17000201637

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
590	CAOG17000201946
591	CAOG17000201621
592	CAOG17000201447
593	CAOG17000201591
594	CAOG17000201844
595	CAOG17000201374
596	CAOG17000201773
597	CAOG17000201539
598	CAOG17000201237
599	CAOG17000201612
600	CAOG17000201750
601	CAOG17000201894
602	CAOG17000201639
603	CAOG17000201389
604	CAOG17000201904
605	CAOG17000201673
606	CAOG17000201595
607	CAOG17000201774
608	CAOG17000201921
609	CAOG17000201867
610	CAOG17000201878
611	CAOG17000201871
612	CAOG17000201879
613	CAOG17000201740
614	CAOG17000201962
615	CAOG17000201963
616	CAOG17000201947
617	CAOG17000010467
618	CAOG17000100345
619	CAOG17000201964
620	CAOG17000097358
621	CAOG17000201723
622	CAOG17000201937
623	CAOG17000003508
624	CAOG17000201792
625	CAOG17000201965
626	CAOG17000009771
627	CAOG17000097369
628	CAOG17000097362
629	CAOG17000097361
630	CAOG17000097359
631	CAOG17000201808
632	CAOG17000097360
633	CAOG17000097371
634	CAOG17000097351
635	CAOG17000097353
636	CAOG17000097375
637	CAOG17000201861
638	CAOG17000201371
639	CAOG17000097373
640	CAOG17000097374
641	CAOG17000097372
642	CAOG17000201922
643	CAOG17000097376

GEOCHECK VERSION 2.1
SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID
644	CAOG17000097355
645	CAOG17000100346
646	CAOG17000008930

PUBLIC WATER SUPPLY SYSTEM INFORMATION

NO WELLS FOUND

USGS TOPOGRAPHIC MAP(S)

34120-G3 SISQUOC, CA
34120-G4 ORCUTT, CA

AREA RADON INFORMATION

Federal Area Radon Information for Zip Code: 93455

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.318 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

Federal EPA Radon Zone for SANTA BARBARA County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SANTA BARBARA COUNTY, CA

Number of sites tested: 82

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.543 pCi/L	93%	7%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.620 pCi/L	100%	0%	0%

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Water Well Information:

Map ID:	1		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N033W18J001S	Type:	Well
Description:	Not Reported	HUC:	18060008
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19530101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	583
Well Hole Depth Units:	ft		

Map ID:	1		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N033W18K001S	Type:	Well
Description:	Not Reported	HUC:	18060008
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560101	Well Depth:	275
Well Depth Units:	ft	Well Hole Depth:	338
Well Hole Depth Units:	ft		

Map ID:	2		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N033W18M001S	Type:	Well
Description:	Not Reported	HUC:	18060008
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19710101	Well Depth:	702
Well Depth Units:	ft	Well Hole Depth:	705
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1971-12-13
Feet below surface:	484.83	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1971-12-01	Feet below surface:	485.00

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-13	Feet below surface:	475
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

Map ID:	3		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N033W17J001S	Type:	Well
Description:	Not Reported	HUC:	18060008
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1961-05-18
Feet below surface:	24.71	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1961-05-01	Feet below surface:	25.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	5		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N033W18R001S	Type:	Well
Description:	Not Reported	HUC:	18060008
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19580101	Well Depth:	644
Well Depth Units:	ft	Well Hole Depth:	650
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1967-07-19
Feet below surface:	521.8	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1964-01	Feet below surface:	514
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-29	Feet below surface:	483
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Map ID:	9		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N033W28M001S	Type:	Well
Description:	WELL DESTROYED IN 1992.	HUC:	18060008
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	385
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	36	Level reading date:	1992-03-27
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		

Level reading date:	1991-04-08	Feet below surface:	263.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-04-20	Feet below surface:	263.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-28	Feet below surface:	263.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-25	Feet below surface:	263.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-04-20	Feet below surface:	263.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-03	Feet below surface:	264.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-04-01	Feet below surface:	264.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-07	Feet below surface:	263.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-18	Feet below surface:	266.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-04-06	Feet below surface:	264.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-07	Feet below surface:	265.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-28	Feet below surface:	220.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-12	Feet below surface:	198.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-05	Feet below surface:	215.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-11	Feet below surface:	269.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-04-06	Feet below surface:	238.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-25	Feet below surface:	228.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-02	Feet below surface:	213.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-09	Feet below surface:	222.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-12	Feet below surface:	267.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-15	Feet below surface:	230.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-15	Feet below surface:	270.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-18	Feet below surface:	269.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-15	Feet below surface:	270.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-02	Feet below surface:	270.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-27	Feet below surface:	270.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-08	Feet below surface:	271.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-10-17	Feet below surface:	271.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-13	Feet below surface:	271.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-15	Feet below surface:	268.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-25	Feet below surface:	203.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-30	Feet below surface:	204.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05	Feet below surface:	270.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02	Feet below surface:	233.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-02-03	Feet below surface:	269.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	11		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N034W34R001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	402
Well Hole Depth Units:	ft		

Map ID:	12		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N033W05A001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510101	Well Depth:	215
Well Depth Units:	ft	Well Hole Depth:	250
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1978-02-02
Feet below surface:	153.22	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1977-06-15	Feet below surface:	156.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-22	Feet below surface:	155
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	14		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N034W22Q009S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19881003	Well Depth:	36
Well Depth Units:	ft	Well Hole Depth:	40
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1988-12-20
Feet below surface:	24.40	Feet to sea level:	Not Reported

Note:	Not Reported		
Level reading date:	1988-10-18	Feet below surface:	22.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-10-05	Feet below surface:	23.0
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		

Map ID:	15		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W02M001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	77	Level reading date:	2004-02-25
Feet below surface:	119.67	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2003-04-02	Feet below surface:	126.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-02-19	Feet below surface:	118.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-23	Feet below surface:	118.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-29	Feet below surface:	121.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-15	Feet below surface:	120.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-26	Feet below surface:	119.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-17	Feet below surface:	121.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-03-24	Feet below surface:	119.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-06-15	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1994-09-08	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1993-05-12	Feet below surface:	Not Reported

Feet to sea level:	Not Reported		
Note:	An obstruction was encountered in the well above the water surface (no water level recorded).		
Level reading date:	1992-09-09	Feet below surface:	129.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-08-14	Feet below surface:	131.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-04-24	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-08-15	Feet below surface:	116.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-14	Feet below surface:	124.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-08-28	Feet below surface:	117.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-06-21	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-05-16	Feet below surface:	113.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-09-26	Feet below surface:	111.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-21	Feet below surface:	110.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-05-24	Feet below surface:	110.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-10-01	Feet below surface:	111.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-07-22	Feet below surface:	120.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-07-01	Feet below surface:	108.76
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1986-09-19	Feet below surface:	113.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-26	Feet below surface:	118.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-09-25	Feet below surface:	110.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-26	Feet below surface:	104.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-09-27	Feet below surface:	107.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-28	Feet below surface:	104.44
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-09-26	Feet below surface:	120.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-04	Feet below surface:	110.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-09-23	Feet below surface:	104.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-25	Feet below surface:	105.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-29	Feet below surface:	104.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-24	Feet below surface:	102.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-04-27	Feet below surface:	101.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-24	Feet below surface:	100.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-27	Feet below surface:	98.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-12-21	Feet below surface:	99.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-23	Feet below surface:	100.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-27	Feet below surface:	98.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-01	Feet below surface:	103.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-27	Feet below surface:	101.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-26	Feet below surface:	97.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-23	Feet below surface:	95.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-24	Feet below surface:	93.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-24	Feet below surface:	93.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-26	Feet below surface:	95.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-19	Feet below surface:	95.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-19	Feet below surface:	96.55
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-10-23	Feet below surface:	96.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-22	Feet below surface:	94.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-29	Feet below surface:	97.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-24	Feet below surface:	92.06
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		
Level reading date:	1980-07-01	Feet below surface:	91.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-27	Feet below surface:	89.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-24	Feet below surface:	88.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-27	Feet below surface:	86.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-11	Feet below surface:	85.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-23	Feet below surface:	85.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-18	Feet below surface:	90.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-21	Feet below surface:	88.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-24	Feet below surface:	86.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-25	Feet below surface:	86.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-24	Feet below surface:	89.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-25	Feet below surface:	88.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-20	Feet below surface:	86.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-24	Feet below surface:	84.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-24	Feet below surface:	83.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-22	Feet below surface:	84.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-15	Feet below surface:	84.54

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-01	Feet below surface:	83.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-18	Feet below surface:	83.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-15	Feet below surface:	87.39
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	16		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W02L001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	402
Well Hole Depth Units:	ft		

Map ID:	17		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W03J001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1978-01-18
Feet below surface:	73.85	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	20		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W01N001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported

Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1980-01-30
Feet below surface:	187.70	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	21		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W11C001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	504
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1980-01-30
Feet below surface:	74.94	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	23		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W11B001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1978-01-18
Feet below surface:	118.78	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1977-06-15	Feet below surface:	122.41
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Map ID:	25		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W11A001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19700101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	580
Well Hole Depth Units:	ft		

Map ID:	28		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N034W11F001S	Type:	Well
Description:	Not Reported	HUC:	18060009
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	554
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1980-01-30
Feet below surface:	69.40	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

State Well Information:

Map ID: 4

GAMA:

Well ID:	CA4200851_004_004	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	4200851-004
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA4200851_004_004&store_num=		
GeoTracker Data:	Not Reported		

Map ID: 4

Well ID:	USGS-345100120220001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345100120220001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345100120220001&store_num=		
GeoTracker Data:	Not Reported		

Map ID: 4

GAMA:

Well ID:	SCRC-B06	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Names:	SCRC-B06	GAMA Pfas testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=SCRC-B06&store_num=		
GeoTracker Data:	Not Reported		

Map ID: 5

Well ID:	USGS-345106120225601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-345106120225601	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-345106120225601&store_num=		
GeoTracker Data:	Not Reported		

Map ID: 5

State Well #:	09N33W18R001S	Station ID:	49574
Well Name:	09N33W18R001S	Basin Name:	Santa Maria
Well Use:	Unknown	Well Type:	Single Well
Well Depth:	644	Well Completion Rpt #:	Not Reported

Map ID: 5

Well ID:	09N33W18R001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	09N33W18R001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=09N33W18R001S&store_num=		

GeoTracker Data: Not Reported

Map ID: 5

GAMA:

Well ID:	CA4200851_001_001	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	4200851-001
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA4200851_001_001&store_num=		
GeoTracker Data:	Not Reported		

Map ID:	6		
Seq:	9333	Prim sta c:	09N/34W-18R01 S
Frds no:	4200851001	County:	42
District:	72	User id:	42C
System no:	4200851	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	345100.0	Longitude:	1202300.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	4200851	System nam:	Rolling Hills Water Co
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		
Sample date:	31-JUL-17	Finding:	19.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	31-JUL-17	Finding:	2.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-JUN-12	Finding:	0.246
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-JUN-12	Finding:	910.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	17-JUN-12	Finding:	1.09
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Map ID:	7		
Well ID:	AGL020037042-RRWELL#1_IW	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	RRWELL#1_IW

GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020037042&assigned_name=RRWELL#1_IW&store_num=
GeoTracker Data: Not Reported

Map ID: 7
Well ID: AGL020005184-AG WELL Well Type: MONITORING
Source: Agricultural Lands Other Name: AG WELL
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020005184&assigned_name=AG WELL&store_num=
GeoTracker Data: Not Reported

Map ID: 8
Well ID: AGL020027374-PRIMARY Well Type: MONITORING
Source: Agricultural Lands Other Name: PRIMARY
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020027374&assigned_name=PRIMARY&store_num=
GeoTracker Data: Not Reported

Map ID: 8
Well ID: AGL020014955-WELL 1 Well Type: MONITORING
Source: Agricultural Lands Other Name: WELL 1
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020014955&assigned_name=WELL 1&store_num=
GeoTracker Data: Not Reported

Map ID: 10

GAMA:

Well ID: CA4200901_001_001 Well Type: MUNICIPAL
Source: DDW Other Names: 4200901-001
GAMA Pfas testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA4200901_001_001&store_num=
GeoTracker Data: Not Reported

Map ID: 11
Well ID: AGL020028062-3RAN2701_I Well Type: MONITORING
Source: Agricultural Lands Other Name: 3RAN2701_I
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020028062&assigned_name=3RAN2701_I&store_num=
GeoTracker Data: Not Reported

Map ID: 11

Well ID: AGL020000787-WELL 5 Well Type: MONITORING
Source: Agricultural Lands Other Name: WELL 5
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020000787&assigned_name=WELL 5&store_num=
GeoTracker Data: Not Reported

Map ID: 12
Well ID: USGS-344822120215901 Well Type: UNK
Source: United States Geological Survey
Other Name: USGS-344822120215901 GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-344822120215901&store_num=
GeoTracker Data: Not Reported

Map ID: 13
Well ID: AGC100000001-CCGC_0516 Well Type: MONITORING
Source: Agricultural Lands Other Name: CCGC_0516
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGC100000001&assigned_name=CCGC_0516&store_num=
GeoTracker Data: Not Reported

Map ID: 14
Well ID: USGS-344808120264101 Well Type: UNK
Source: United States Geological Survey
Other Name: USGS-344808120264101 GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-344808120264101&store_num=
GeoTracker Data: Not Reported

Map ID: 15
State Well #: 08N34W02M001S Station ID: 23886
Well Name: Not Reported Basin Name: San Antonio Creek Valley
Well Use: Unknown Well Type: Unknown
Well Depth: 0 Well Completion Rpt #: Not Reported

Map ID: 15
Well ID: USGS-344802120255901 Well Type: UNK
Source: United States Geological Survey
Other Name: USGS-344802120255901 GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-344802120255901&store_num=
GeoTracker Data: Not Reported

Map ID: 15

Well ID: AGL020026466-WELL6_IRR
Well Type: MONITORING
Source: Agricultural Lands
Other Name: WELL6_IRR
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020026466&assigned_name=WELL6_IRR&store_num=
GeoTracker Data: Not Reported

Map ID: 18
Well ID: AGL020022802-RANCH9_IRR
Well Type: MONITORING
Source: Agricultural Lands
Other Name: RANCH9_IRR
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020022802&assigned_name=RANCH9_IRR&store_num=
GeoTracker Data: Not Reported

Map ID: 19
Well ID: AGL020011862-WELL 10
Well Type: MONITORING
Source: Agricultural Lands
Other Name: WELL 10
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020011862&assigned_name=WELL 10&store_num=
GeoTracker Data: Not Reported

Map ID: 22
Well ID: AGL020018082-WHTEH23A_I
Well Type: MONITORING
Source: Agricultural Lands
Other Name: WHTEH23A_I
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020018082&assigned_name=WHTEH23A_I&store_num=
GeoTracker Data: Not Reported

Map ID: 24
Well ID: AGL020000787-OFFICE_D
Well Type: MONITORING
Source: Agricultural Lands
Other Name: OFFICE_D
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020000787&assigned_name=OFFICE_D&store_num=
GeoTracker Data: Not Reported

Map ID: 26
Well ID: AGL020028148-WHITE48
Well Type: MONITORING
Source: Agricultural Lands
Other Name: WHITE48
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020028148&assigned_name=WHITE48&store_num=
GeoTracker Data: Not Reported

Map ID: 27

Well ID:	AGL020027576-AW GLAD	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	AW GLAD
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020027576&assigned_name=AW GLAD&store_num=		
GeoTracker Data:	Not Reported		

Map ID:	29		
Well ID:	AGC100000001-CCGC_0581	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	CCGC_0581
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGC100000001&assigned_name=CCGC_0581&store_num=		
GeoTracker Data:	Not Reported		

Map ID:	29		
Well ID:	AGL020018102-WHTEH5A_I	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	WHTEH5A_I
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020018102&assigned_name=WHTEH5A_I&store_num=		
GeoTracker Data:	Not Reported		

Map ID:	29		
Well ID:	AGL020018102-WELL 12	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	WELL 12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020018102&assigned_name=WELL 12&store_num=		
GeoTracker Data:	Not Reported		

Map ID:	30		
Well ID:	AGL020007205-DOMESTIC	Well Type:	MONITORING
Source:	Agricultural Lands	Other Name:	DOMESTIC
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&samp_date=&global_id=AGL020007205&assigned_name=DOMESTIC&store_num=		
GeoTracker Data:	Not Reported		

Map ID: 1

OIL_GAS:

API #:	0408304059	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Doan	Well Design:	Doan 1
Operator ID:	05080	Operator Name:	L. E. Doan
Field Name:	Santa Maria Valley	Area Name:	Not Reported

Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08304059		

Map ID: 2

OIL_GAS:

API #:	0408321950	Well #:	45-17
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Studer	Well Design:	Studer 45-17
Operator ID:	G3515	Operator Name:	HVI Cat Canyon, Inc.
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321950		

Map ID: 3

OIL_GAS:

API #:	0408321300	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ellis	Well Design:	Ellis 1
Operator ID:	M1700	Operator Name:	Marathon Oil Company
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321300		

Map ID: 4

OIL_GAS:

API #:	0408321401	Well #:	2
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	C. N. White Fee	Well Design:	C. N. White Fee 2
Operator ID:	V0725	Operator Name:	Vaquero Energy, Inc.
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321401		

Map ID: 5

OIL_GAS:

API #:	0408322387	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Wiley	Well Design:	Wiley 1
Operator ID:	06238	Operator Name:	New Pennsylvania Pet Co.
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=08322387

Map ID: 6

OIL_GAS:

API #:	0408301980	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Drumm	Well Design:	Drumm 1
Operator ID:	01222	Operator Name:	California Coast Oil Co.
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301980		

Map ID: 7

OIL_GAS:

API #:	0408301985	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Righetti	Well Design:	Righetti 1
Operator ID:	05185	Operator Name:	Laguna Oil Co.
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301985		

Map ID: 8

OIL_GAS:

API #:	0408300525	Well #:	21-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fullerton	Well Design:	Fullerton 21-21
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300525		

Map ID: 9

OIL_GAS:

API #:	0408321714	Well #:	1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Union-Getty Rice Ranch	Well Design:	Union-Getty Rice Ranch 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=08321714

Map ID: 10

OIL_GAS:

API #:	0408322275	Well #:	1-24
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Kantzer-Fox	Well Design:	Kantzer-Fox 1-24
Operator ID:	T4500	Operator Name:	Tri-Valley Oil & Gas Co.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322275		

Map ID: 11

OIL_GAS:

API #:	0408321599	Well #:	23X
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Union-Getty Hobbs	Well Design:	Union-Getty Hobbs 23X
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321599		

Map ID: 12

OIL_GAS:

API #:	0408300781	Well #:	32W-21
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	White	Well Design:	White 32W-21
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300781		

Map ID: 13

OIL_GAS:

API #:	0408301986	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Unspecified	Well Design:	Unspecified 1
Operator ID:	05481	Operator Name:	Lucerne Oil Co.
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301986		

Map ID: 14

OIL_GAS:

API #:	0408302033	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	West	Well Design:	West 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302033		

Map ID: 15

OIL_GAS:

API #:	0408302034	Well #:	3
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	West	Well Design:	West 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302034		

Map ID: 16

OIL_GAS:

API #:	0408302035	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	West	Well Design:	West 4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302035		

Map ID: 17

OIL_GAS:

API #:	0408302032	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	West	Well Design:	West 1
Operator ID:	R1200	Operator Name:	Getty Reserve Oil, Co.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302032		

Map ID: 18

OIL_GAS:

API #:	0408302208	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 10
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302208		

Map ID: 19

OIL_GAS:

API #:	0408302211	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 14
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302211		

Map ID: 20

OIL_GAS:

API #:	0408302209	Well #:	12
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Hobbs	Well Design:	Hobbs 12
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302209		

Map ID: 21

OIL_GAS:

API #:	0408302169	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fox	Well Design:	Fox 10
Operator ID:	N2305	Operator Name:	Nuevo Energy Company
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302169		

Map ID: 22

OIL_GAS:

API #:	0408302216	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Kaiser	Well Design:	Kaiser 4
Operator ID:	N2305	Operator Name:	Nuevo Energy Company
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302216		

Map ID: 23

OIL_GAS:

API #:	0408302215	Well #:	2
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Kaiser	Well Design:	Kaiser 2
Operator ID:	S2641		
Operator Name:	Sentinel Peak Resources California LLC		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302215		

Map ID: 24

OIL_GAS:

API #:	0408302205	Well #:	7
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Hobbs	Well Design:	Hobbs 7
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302205		

Map ID: 25

OIL_GAS:

API #:	0408301275	Well #:	43-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	White	Well Design:	White 43-21
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301275		

Map ID: 26

OIL_GAS:

API #:	0408302210	Well #:	13
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Hobbs	Well Design:	Hobbs 13
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302210		

Map ID: 27

OIL_GAS:

API #:	0408302212	Well #:	15
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Hobbs	Well Design:	Hobbs 15
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302212		

Map ID: 28

OIL_GAS:

API #:	0408302218	Well #:	6
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Kaiser	Well Design:	Kaiser 6
Operator ID:	N2305	Operator Name:	Nuevo Energy Company
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302218		

Map ID: 29

OIL_GAS:

API #:	0408302207	Well #:	9
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 9
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302207		

Map ID: 30

OIL_GAS:

API #:	0408300104	Well #:	11
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Hobbs	Well Design:	Hobbs 11
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300104		

Map ID: 31

OIL_GAS:

API #:	0408302213	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 16
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302213		

Map ID: 32

OIL_GAS:

API #:	0408302214	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Kaiser	Well Design:	Kaiser 1
Operator ID:	N2305	Operator Name:	Nuevo Energy Company
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302214		

Map ID: 33

OIL_GAS:

API #:	0408302206	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 8
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302206		

Map ID: 34

OIL_GAS:

API #:	0408300375	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Unspecified	Well Design:	Unspecified 1
Operator ID:	06337	Operator Name:	O. C. Field Gasoline Corp.
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300375		

Map ID: 35

OIL_GAS:

API #:	0408302167	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fox	Well Design:	Fox 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	02/14/1906		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302167		

Map ID: 36

OIL_GAS:

API #:	0408302283	Well #:	24
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 24
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302283		

Map ID: 37

OIL_GAS:

API #:	0408302024	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302024		

Map ID: 38

OIL_GAS:

API #:	0408302030	Well #:	8
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Penn	Well Design:	Penn 8
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302030		

Map ID: 39

OIL_GAS:

API #:	0408302025	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302025		

Map ID: 40

OIL_GAS:

API #:	0408302031	Well #:	9
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 9
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302031		

Map ID: 41

OIL_GAS:

API #:	0408301278	Well #:	144-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	White	Well Design:	White 144-21
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301278		

Map ID: 42

OIL_GAS:

API #:	0408301276	Well #:	44-21
Well Type:	Oil & Gas	Well Status:	Plugged

Lease Name:	White	Well Design:	White 44-21
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301276		

Map ID: 43

OIL_GAS:

API #:	0408300229	Well #:	17
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Hobbs	Well Design:	Hobbs 17
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300229		

Map ID: 44

OIL_GAS:

API #:	0408304568	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Unspecified	Well Design:	Unspecified 1
Operator ID:	06487	Operator Name:	Oro W L & P Co.
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08304568		

Map ID: 45

OIL_GAS:

API #:	0408320452	Well #:	19
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Hobbs	Well Design:	Hobbs 19
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320452		

Map ID: 46

OIL_GAS:

API #:	0408302204	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged

Lease Name:	Hobbs	Well Design:	Hobbs 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302204		

Map ID: 47

OIL_GAS:

API #:	0408300331	Well #:	3
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Kaiser	Well Design:	Kaiser 3
Operator ID:	S2641		
Operator Name:	Sentinel Peak Resources California LLC		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300331		

Map ID: 48

OIL_GAS:

API #:	0408302217	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Kaiser	Well Design:	Kaiser 5
Operator ID:	N2305	Operator Name:	Nuevo Energy Company
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302217		

Map ID: 49

OIL_GAS:

API #:	0408302027	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 5
Operator ID:	R1200	Operator Name:	Getty Reserve Oil, Co.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302027		

Map ID: 50

OIL_GAS:

API #:	0408302203	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged

Lease Name:	Hobbs	Well Design:	Hobbs 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302203		

Map ID: 51

OIL_GAS:

API #:	0408300246	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300246		

Map ID: 52

OIL_GAS:

API #:	0408302165	Well #:	4
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Fox	Well Design:	Fox 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302165		

Map ID: 53

OIL_GAS:

API #:	0408302028	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302028		

Map ID: 54

OIL_GAS:

API #:	0408302166	Well #:	5

Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fox	Well Design:	Fox 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302166		

Map ID: 55

OIL_GAS:

API #:	0408302026	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302026		

Map ID: 56

OIL_GAS:

API #:	0408320570	Well #:	20
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Hobbs	Well Design:	Hobbs 20
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	06/26/1973		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320570		

Map ID: 57

OIL_GAS:

API #:	0408321766	Well #:	6A
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 6A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321766		

Map ID: 58

OIL_GAS:

API #:	0408302004	Well #:	11

Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 11
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302004		

Map ID: 59

OIL_GAS:

API #:	0408301995	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301995		

Map ID: 60

OIL_GAS:

API #:	0408301999	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301999		

Map ID: 61

OIL_GAS:

API #:	0408302145	Well #:	1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Dome	Well Design:	Dome 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302145		

Map ID: 62

OIL_GAS:

API #:	0408302146	Well #:	2
Well Type:	Oil & Gas	Well Status:	Active

Lease Name:	Dome	Well Design:	Dome 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302146		

Map ID: 63

OIL_GAS:

API #:	0408301998	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301998		

Map ID: 64

OIL_GAS:

API #:	0408302264	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 15
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302264		

Map ID: 65

OIL_GAS:

API #:	0408302147	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302147		

Map ID: 66

OIL_GAS:

API #:	0408321648	Well #:	WD-1
Well Type:	Water Disposal	Well Status:	Plugged

Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee WD-1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321648		

Map ID: 67

OIL_GAS:

API #:	0408300337	Well #:	14
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 14
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300337		

Map ID: 68

OIL_GAS:

API #:	0408302029	Well #:	7
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Penn	Well Design:	Penn 7
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302029		

Map ID: 69

OIL_GAS:

API #:	0408302345	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 8
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302345		

Map ID: 70

OIL_GAS:

API #:	0408302002	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 8

Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302002		

Map ID: 71

OIL_GAS:

API #:	0408321411	Well #:	4A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Dome	Well Design:	Dome 4A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321411		

Map ID: 72

OIL_GAS:

API #:	0408301431	Well #:	45W-21
Well Type:	Water Disposal	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	45W-21	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Cat Canyon
Area Name:	West	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	10/25/1950
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301431		

Map ID: 73

OIL_GAS:

API #:	0408301240	Well #:	1-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 1-21
Operator ID:	11639	Operator Name:	Maria Joaquin Basin, LLC
Field Name:	Cat Canyon	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301240		

Map ID: 74

OIL_GAS:

API #:	0408301108	Well #:	55-21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Los Flores	Well Design:	Los Flores 55-21
Operator ID:	11800	Operator Name:	Angel Petroleum, LLC

Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301108		

Map ID: 75

OIL_GAS:

API #:	0408302281	Well #:	22
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 22
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302281		

Map ID: 76

OIL_GAS:

API #:	0408321255	Well #:	22
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Hobbs	Well Design:	Hobbs 22
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321255		

Map ID: 77

OIL_GAS:

API #:	0408301997	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301997		

Map ID: 78

OIL_GAS:

API #:	0408302006	Well #:	13
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 13
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.

Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302006		

Map ID: 79

OIL_GAS:

API #:	0408302202	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302202		

Map ID: 80

OIL_GAS:

API #:	0408300240	Well #:	1
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Penn	Well Design:	Penn 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300240		

Map ID: 81

OIL_GAS:

API #:	0408322439	Well #:	20-16Z
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 20-16Z
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	12/08/2005		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322439		

Map ID: 82

OIL_GAS:

API #:	0408302263	Well #:	9
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 9
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.

Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302263		

Map ID: 83

OIL_GAS:

API #:	0408302347	Well #:	10
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 10
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302347		

Map ID: 84

OIL_GAS:

API #:	0408302296	Well #:	41
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 41
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302296		

Map ID: 85

OIL_GAS:

API #:	0408300672	Well #:	6
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300672		

Map ID: 86

OIL_GAS:

API #:	0408302148	Well #:	4
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 4

Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302148		

Map ID: 87

OIL_GAS:

API #:	0408302154	Well #:	15
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Dome	Well Design:	Dome 15
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/16/1941		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302154		

Map ID: 88

OIL_GAS:

API #:	0408302155	Well #:	16
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Dome	Well Design:	Dome 16
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302155		

Map ID: 89

OIL_GAS:

API #:	0408302164	Well #:	2
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Fox	Well Design:	Fox 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	10/07/1903		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302164		

Map ID: 90

OIL_GAS:

API #:	0408301242	Well #:	3-21

Well Type:	Water Disposal	Well Status:	Idle
Lease Name:	Los Flores	Well Design:	Los Flores 3-21
Operator ID:	11800	Operator Name:	Angel Petroleum, LLC
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301242		

Map ID: 91

OIL_GAS:

API #:	0408302168	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fox	Well Design:	Fox 8
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302168		

Map ID: 92

OIL_GAS:

API #:	0408302005	Well #:	12
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 12
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302005		

Map ID: 93

OIL_GAS:

API #:	0408320323	Well #:	18
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Hobbs	Well Design:	Hobbs 18
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320323		

Map ID: 94

OIL_GAS:

API #:	0408302201	Well #:	1

Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302201		

Map ID: 95

OIL_GAS:

API #:	0408302000	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302000		

Map ID: 96

OIL_GAS:

API #:	0408302361	Well #:	28
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 28
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302361		

Map ID: 97

OIL_GAS:

API #:	0408302003	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 10
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302003		

Map ID: 98

OIL_GAS:

API #:	0408300106	Well #:	9

Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Fox	Well Design:	Fox 9
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300106		

Map ID: 99

OIL_GAS:

API #:	0408302157	Well #:	18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 18
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302157		

Map ID: 100

OIL_GAS:

API #:	0408301103	Well #:	7
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 7
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301103		

Map ID: 101

OIL_GAS:

API #:	0408302280	Well #:	21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 21
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302280		

Map ID: 102

OIL_GAS:

API #:	0408301109	Well #:	66-21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	66-21	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Cat Canyon
Area Name:	West	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301109		

Map ID: 103

OIL_GAS:

API #:	0408302150	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 8
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302150		

Map ID: 104

OIL_GAS:

API #:	0408302001	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 7
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302001		

Map ID: 105

OIL_GAS:

API #:	0408302282	Well #:	23
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 23
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302282		

Map ID: 106

OIL_GAS:

API #:	0408301243	Well #:	4-21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Los Flores	Well Design:	Los Flores 4-21
Operator ID:	11800	Operator Name:	Angel Petroleum, LLC
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301243		

Map ID: 107

OIL_GAS:

API #:	0408300244	Well #:	1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Fox	Well Design:	Fox 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	03/01/1903		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300244		

Map ID: 108

OIL_GAS:

API #:	0408302152	Well #:	13
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Dome	Well Design:	Dome 13
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302152		

Map ID: 109

OIL_GAS:

API #:	0408300074	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hobbs	Well Design:	Hobbs 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300074		

Map ID: 110

OIL_GAS:

API #:	0408300336	Well #:	6
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Rice Ranch Fee	Well Design:	Rice Ranch Fee 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300336		

Map ID: 111

OIL_GAS:

API #:	0408300241	Well #:	5
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Dome	Well Design:	Dome 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300241		

Map ID: 112

OIL_GAS:

API #:	0408300105	Well #:	31
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 31
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300105		

Map ID: 113

OIL_GAS:

API #:	0408300245	Well #:	3
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Fox	Well Design:	Fox 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300245		

Map ID: 114

OIL_GAS:

API #:	0408322226	Well #:	19
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Dome	Well Design:	Dome 19
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322226		

Map ID: 115

OIL_GAS:

API #:	0408301104	Well #:	21
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 21
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301104		

Map ID: 116

OIL_GAS:

API #:	0408300674	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 12
Operator ID:	U0200		
Operator Name:	Union Oil Company of California		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300674		

Map ID: 117

OIL_GAS:

API #:	0408302153	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 14
Operator ID:	U0200		
Operator Name:	Union Oil Company of California		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302153		

Map ID: 118

OIL_GAS:

API #:	0408302358	Well #:	23
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 23
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302358		

Map ID: 119

OIL_GAS:

API #:	0408302346	Well #:	9
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 9
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302346		

Map ID: 120

OIL_GAS:

API #:	0408302356	Well #:	20
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Pinal	Well Design:	Pinal 20
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/11/1913		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302356		

Map ID: 121

OIL_GAS:

API #:	0408302359	Well #:	25
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 25
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302359		

Map ID: 122

OIL_GAS:

API #:	0408301267	Well #:	111-21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Los Flores	Well Design:	Los Flores 111-21
Operator ID:	11800	Operator Name:	Angel Petroleum, LLC
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301267		

Map ID: 123

OIL_GAS:

API #:	0408301373	Well #:	167-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	167-21	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Cat Canyon
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301373		

Map ID: 124

OIL_GAS:

API #:	0408301029	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301029		

Map ID: 125

OIL_GAS:

API #:	0408322592	Well #:	TH-5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal TH-5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322592		

Map ID: 126

OIL_GAS:

API #:	0408301375	Well #:	67-21
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Los Flores 2	Well Design:	Los Flores 2 67-21
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301375		

Map ID: 127

OIL_GAS:

API #:	0408302357	Well #:	22
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Pinal	Well Design:	Pinal 22
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302357		

Map ID: 128

OIL_GAS:

API #:	0408302363	Well #:	33
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 33
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302363		

Map ID: 129

OIL_GAS:

API #:	0408302279	Well #:	20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 20
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302279		

Map ID: 130

OIL_GAS:

API #:	0408300332	Well #:	11
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 11
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300332		

Map ID: 131

OIL_GAS:

API #:	0408300247	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300247		

Map ID: 132

OIL_GAS:

API #:	0408300248	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300248		

Map ID: 133

OIL_GAS:

API #:	0408304607	Well #:	32
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 32
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	06/27/1947		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08304607		

Map ID: 134

OIL_GAS:

API #:	0408302364	Well #:	35
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Pinal	Well Design:	Pinal 35
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302364		

Map ID: 135

OIL_GAS:

API #:	0408302156	Well #:	17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 17
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302156		

Map ID: 136

OIL_GAS:

API #:	0408300249	Well #:	24
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 24
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300249		

Map ID: 137

OIL_GAS:

API #:	0408301269	Well #:	114-21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Los Flores	Well Design:	Los Flores 114-21
Operator ID:	11800	Operator Name:	Angel Petroleum, LLC
Field Name:	Cat Canyon	Area Name:	West
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301269		

Map ID: 138

OIL_GAS:

API #:	0408322419	Well #:	19-19Z
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 19-19Z
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	12/12/2005		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322419		

Map ID: 139

OIL_GAS:

API #:	0408302341	Well #:	101
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 101
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302341		

Map ID: 140

OIL_GAS:

API #:	0408302151	Well #:	9
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Dome	Well Design:	Dome 9
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302151		

Map ID: 141

OIL_GAS:

API #:	0408302344	Well #:	3
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302344		

Map ID: 142

OIL_GAS:

API #:	0408302278	Well #:	19
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 19
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302278		

Map ID: 143

OIL_GAS:

API #:	0408302250	Well #:	36
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 36
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302250		

Map ID: 144

OIL_GAS:

API #:	0408302284	Well #:	25
Well Type:	Water Disposal	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 25
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302284		

Map ID: 145

OIL_GAS:

API #:	0408300696	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dome	Well Design:	Dome 10
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300696		

Map ID: 146

OIL_GAS:

API #:	0408301253	Well #:	78-21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	78-21	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Cat Canyon
Area Name:	West	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301253		

Map ID: 147

OIL_GAS:

API #:	0408302337	Well #:	95
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 95
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302337		

Map ID: 148

OIL_GAS:

API #:	0408302325	Well #:	80
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 80
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302325		

Map ID: 149

OIL_GAS:

API #:	0408322591	Well #:	TH-4
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove TH-4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322591		

Map ID: 150

OIL_GAS:

API #:	0408300272	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300272		

Map ID: 151

OIL_GAS:

API #:	0408320385	Well #:	37
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 37
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320385		

Map ID: 152

OIL_GAS:

API #:	0408302355	Well #:	19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pinal	Well Design:	Pinal 19
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302355		

Map ID: 153

OIL_GAS:

API #:	0408302348	Well #:	11
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Pinal	Well Design:	Pinal 11
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302348		

Map ID: 154

OIL_GAS:

API #:	0408302343	Well #:	2
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Pinal	Well Design:	Pinal 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302343		

Map ID: 155

OIL_GAS:

API #:	0408302149	Well #:	7
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Dome	Well Design:	Dome 7
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302149		

Map ID: 156

OIL_GAS:

API #:	0408302277	Well #:	18
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 18
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302277		

Map ID: 157

OIL_GAS:

API #:	0408302246	Well #:	78
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 78
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302246		

Map ID: 158

OIL_GAS:

API #:	0408320363	Well #:	13
Well Type:	Water Disposal	Well Status:	Active
Lease Name:	Folsom	Well Design:	Folsom 13
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320363		

Map ID: 159

OIL_GAS:

API #:	0408302275	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 15
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302275		

Map ID: 160

OIL_GAS:

API #:	0408302332	Well #:	90
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 90
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302332		

Map ID: 161

OIL_GAS:

API #:	0408302335	Well #:	93
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 93
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302335		

Map ID: 162

OIL_GAS:

API #:	0408302227	Well #:	3
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Folsom	Well Design:	Folsom 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302227		

Map ID: 163

OIL_GAS:

API #:	0408302226	Well #:	2
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Folsom	Well Design:	Folsom 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302226		

Map ID: 164

OIL_GAS:

API #:	0408322541	Well #:	BC 8
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove BC 8
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322541		

Map ID: 165

OIL_GAS:

API #:	0408320453	Well #:	14
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Folsom	Well Design:	Folsom 14
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320453		

Map ID: 166

OIL_GAS:

API #:	0408302229	Well #:	11
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Folsom	Well Design:	Folsom 11
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302229		

Map ID: 167

OIL_GAS:

API #:	0408322426	Well #:	30-52Z
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 30-52Z
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/04/2006		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322426		

Map ID: 168

OIL_GAS:

API #:	0408302316	Well #:	64
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 64
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302316		

Map ID: 169

OIL_GAS:

API #:	0408302160	Well #:	5
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Folsom	Well Design:	Folsom 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302160		

Map ID: 170

OIL_GAS:

API #:	0408302326	Well #:	81
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 81
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302326		

Map ID: 171

OIL_GAS:

API #:	0408322538	Well #:	BC 5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove BC 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322538		

Map ID: 172

OIL_GAS:

API #:	0408322540	Well #:	BC 7
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove BC 7
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322540		

Map ID: 173

OIL_GAS:

API #:	0408302269	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 8
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302269		

Map ID: 174

OIL_GAS:

API #:	0408322570	Well #:	400
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 400
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/02/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322570		

Map ID: 175

OIL_GAS:

API #:	0408322227	Well #:	105
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 105
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322227		

Map ID: 176

OIL_GAS:

API #:	0408302313	Well #:	60
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 60
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302313		

Map ID: 177

OIL_GAS:

API #:	0408302315	Well #:	63
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 63
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	10/20/1946		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302315		

Map ID: 178

OIL_GAS:

API #:	0408322573	Well #:	401
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 401
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322573		

Map ID: 179

OIL_GAS:

API #:	0408322574	Well #:	402
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 402
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/01/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322574		

Map ID: 180

OIL_GAS:

API #:	0408322545	Well #:	325H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 325H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322545		

Map ID: 181

OIL_GAS:

API #:	0408302242	Well #:	67
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 67
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	11/04/1946		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302242		

Map ID: 182

OIL_GAS:

API #:	0408322537	Well #:	BC 4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove BC 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322537		

Map ID: 183

OIL_GAS:

API #:	0408322539	Well #:	BC 6
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove BC 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322539		

Map ID: 184

OIL_GAS:

API #:	0408322548	Well #:	326H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 326H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322548		

Map ID: 185

OIL_GAS:

API #:	0408322452	Well #:	25-83C
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-83C
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322452		

Map ID: 186

OIL_GAS:

API #:	0408322450	Well #:	25-83A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-83A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322450		

Map ID: 187

OIL_GAS:

API #:	0408322454	Well #:	25-83F
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83F
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/10/2007		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322454		

Map ID: 188

OIL_GAS:

API #:	0408322451	Well #:	25-83B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-83B
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322451		

Map ID: 189

OIL_GAS:

API #:	0408322453	Well #:	25-83D
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83D
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322453		

Map ID: 190

OIL_GAS:

API #:	0408322590	Well #:	TH-3
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove TH-3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322590		

Map ID: 191

OIL_GAS:

API #:	0408322455	Well #:	25-83E
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83E
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322455		

Map ID: 192

OIL_GAS:

API #:	0408322456	Well #:	25-83G
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83G
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322456		

Map ID: 193

OIL_GAS:

API #:	0408322457	Well #:	25-83J
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83J
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322457		

Map ID: 194

OIL_GAS:

API #:	0408300075	Well #:	76
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 76
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300075		

Map ID: 195

OIL_GAS:

API #:	0408322458	Well #:	25-83M
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83M
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/03/2007		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322458		

Map ID: 196

OIL_GAS:

API #:	0408322460	Well #:	25-83K
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83K
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322460		

Map ID: 197

OIL_GAS:

API #:	0408322461	Well #:	25-83L
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83L
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322461		

Map ID: 198

OIL_GAS:

API #:	0408322462	Well #:	25-83O
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83O
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322462		

Map ID: 199

OIL_GAS:

API #:	0408322463	Well #:	25-83P
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83P
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322463		

Map ID: 200

OIL_GAS:

API #:	0408322459	Well #:	25-83N
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83N
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322459		

Map ID: 201

OIL_GAS:

API #:	0408322535	Well #:	BC 2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove BC 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322535		

Map ID: 202

OIL_GAS:

API #:	0408320386	Well #:	106
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 106
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320386		

Map ID: 203

OIL_GAS:

API #:	0408302161	Well #:	6
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Folsom	Well Design:	Folsom 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	03/26/2006		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302161		

Map ID: 204

OIL_GAS:

API #:	0408322534	Well #:	BC 1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove BC 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322534		

Map ID: 205

OIL_GAS:

API #:	0408302333	Well #:	91
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 91
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/01/1949		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302333		

Map ID: 206

OIL_GAS:

API #:	0408322536	Well #:	BC 3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove BC 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322536		

Map ID: 207

OIL_GAS:

API #:	0408322553	Well #:	25-83U
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83U
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322553		

Map ID: 208

OIL_GAS:

API #:	0408322551	Well #:	25-83S
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83S
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	03/20/2009		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322551		

Map ID: 209

OIL_GAS:

API #:	0408322552	Well #:	25-83T
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83T
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322552		

Map ID: 210

OIL_GAS:

API #:	0408322550	Well #:	25-83R
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-83R
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322550		

Map ID: 211

OIL_GAS:

API #:	0408322581	Well #:	209
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 209
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/03/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322581		

Map ID: 212

OIL_GAS:

API #:	0408322583	Well #:	25-83W
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 25-83W
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/19/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322583		

Map ID: 213

OIL_GAS:

API #:	0408302291	Well #:	36
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 36
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302291		

Map ID: 214

OIL_GAS:

API #:	0408322512	Well #:	354 I
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 354 I
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322512		

Map ID: 215

OIL_GAS:

API #:	0408300265	Well #:	7
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 7
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300265		

Map ID: 216

OIL_GAS:

API #:	0408302328	Well #:	83
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 83
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302328		

Map ID: 217

OIL_GAS:

API #:	0408322510	Well #:	308 H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 308 H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322510		

Map ID: 218

OIL_GAS:

API #:	0408322519	Well #:	311H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 311H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322519		

Map ID: 219

OIL_GAS:

API #:	0408322582	Well #:	210
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 210
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322582		

Map ID: 220

OIL_GAS:

API #:	0408322576	Well #:	400P
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 400P
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322576		

Map ID: 221

OIL_GAS:

API #:	0408322613	Well #:	401P-1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 401P-1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/21/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322613		

Map ID: 222

OIL_GAS:

API #:	0408322577	Well #:	401P
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 401P
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322577		

Map ID: 223

OIL_GAS:

API #:	0408302318	Well #:	68
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 68
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302318		

Map ID: 224

OIL_GAS:

API #:	0408302290	Well #:	35
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 35
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302290		

Map ID: 225

OIL_GAS:

API #:	0408322514	Well #:	310H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 310H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322514		

Map ID: 226

OIL_GAS:

API #:	0408322578	Well #:	402P
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 402P
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322578		

Map ID: 227

OIL_GAS:

API #:	0408302334	Well #:	92
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 92
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302334		

Map ID: 228

OIL_GAS:

API #:	0408300956	Well #:	97
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 97
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/05/2005		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300956		

Map ID: 229

OIL_GAS:

API #:	0408322448	Well #:	300H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 300H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	mip
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322448		

Map ID: 230

OIL_GAS:

API #:	0408302323	Well #:	74
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 74
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/14/1947		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302323		

Map ID: 231

OIL_GAS:

API #:	0408302240	Well #:	59
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 59
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/21/1947		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302240		

Map ID: 232

OIL_GAS:

API #:	0408322486	Well #:	25-55A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322486		

Map ID: 233

OIL_GAS:

API #:	0408322487	Well #:	25-55B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55B
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322487		

Map ID: 234

OIL_GAS:

API #:	0408302247	Well #:	85
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 85
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	04/20/2013		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302247		

Map ID: 235

OIL_GAS:

API #:	0408322488	Well #:	25-55C
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55C
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322488		

Map ID: 236

OIL_GAS:

API #:	0408322490	Well #:	25-55E
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55E
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322490		

Map ID: 237

OIL_GAS:

API #:	0408322489	Well #:	25-55D
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55D
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322489		

Map ID: 238

OIL_GAS:

API #:	0408322511	Well #:	353 I
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 353 I
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322511		

Map ID: 239

OIL_GAS:

API #:	0408322491	Well #:	25-55F
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55F
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322491		

Map ID: 240

OIL_GAS:

API #:	0408322493	Well #:	25-55J
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55J
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322493		

Map ID: 241

OIL_GAS:

API #:	0408322492	Well #:	25-55G
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55G
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322492		

Map ID: 242

OIL_GAS:

API #:	0408322494	Well #:	25-55K
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55K
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322494		

Map ID: 243

OIL_GAS:

API #:	0408322496	Well #:	25-55M
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55M
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322496		

Map ID: 244

OIL_GAS:

API #:	0408322495	Well #:	25-55L
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55L
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322495		

Map ID: 245

OIL_GAS:

API #:	0408322497	Well #:	25-55N
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55N
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322497		

Map ID: 246

OIL_GAS:

API #:	0408322498	Well #:	25-55O
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55O
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322498		

Map ID: 247

OIL_GAS:

API #:	0408322499	Well #:	25-55P
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55P
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322499		

Map ID: 248

OIL_GAS:

API #:	0408322500	Well #:	25-55Q
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 25-55Q
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322500		

Map ID: 249

OIL_GAS:

API #:	0408302321	Well #:	72
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 72
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302321		

Map ID: 250

OIL_GAS:

API #:	0408302331	Well #:	89
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 89
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302331		

Map ID: 251

OIL_GAS:

API #:	0408302292	Well #:	37
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 37
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302292		

Map ID: 252

OIL_GAS:

API #:	0408302329	Well #:	84
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 84
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302329		

Map ID: 253

OIL_GAS:

API #:	0408322518	Well #:	309H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 309H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322518		

Map ID: 254

OIL_GAS:

API #:	0408322520	Well #:	355 I
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 355 I
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	05/21/2008		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322520		

Map ID: 255

OIL_GAS:

API #:	0408302288	Well #:	32
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 32
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302288		

Map ID: 256

OIL_GAS:

API #:	0408322915	Well #:	1
Well Type:	Observation	Well Status:	New
Lease Name:	AB	Well Design:	AB 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322915		

Map ID: 257

OIL_GAS:

API #:	0408322515	Well #:	312H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 312H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322515		

Map ID: 258

OIL_GAS:

API #:	0408302319	Well #:	69
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 69
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302319		

Map ID: 259

OIL_GAS:

API #:	0408300697	Well #:	30
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 30
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	04/07/1909		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300697		

Map ID: 260

OIL_GAS:

API #:	0408322516	Well #:	356 I
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 356 I
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322516		

Map ID: 261

OIL_GAS:

API #:	0408322728	Well #:	258
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 258
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	03/27/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322728		

Map ID: 262

OIL_GAS:

API #:	0408322735	Well #:	257
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 257
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/02/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322735		

Map ID: 263

OIL_GAS:

API #:	0408322700	Well #:	251
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 251
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/24/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322700		

Map ID: 264

OIL_GAS:

API #:	0408322729	Well #:	261
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 261
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/31/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322729		

Map ID: 265

OIL_GAS:

API #:	0408322734	Well #:	254
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 254
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/28/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322734		

Map ID: 266

OIL_GAS:

API #:	0408322727	Well #:	253
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 253
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/24/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322727		

Map ID: 267

OIL_GAS:

API #:	0408322672	Well #:	252
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 252
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/22/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322672		

Map ID: 268

OIL_GAS:

API #:	0408322673	Well #:	260
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 260
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	09/08/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322673		

Map ID: 269

OIL_GAS:

API #:	0408322699	Well #:	247
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 247
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	01/20/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322699		

Map ID: 270

OIL_GAS:

API #:	0408322733	Well #:	250
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 250
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322733		

Map ID: 271

OIL_GAS:

API #:	0408322726	Well #:	248
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 248
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/19/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322726		

Map ID: 272

OIL_GAS:

API #:	0408322736	Well #:	263
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 263
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/17/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322736		

Map ID: 273

OIL_GAS:

API #:	0408322737	Well #:	264
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 264
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/13/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322737		

Map ID: 274

OIL_GAS:

API #:	0408322738	Well #:	265
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 265
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/10/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322738		

Map ID: 275

OIL_GAS:

API #:	0408322730	Well #:	266
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 266
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/23/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322730		

Map ID: 276

OIL_GAS:

API #:	0408322701	Well #:	267
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 267
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/04/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322701		

Map ID: 277

OIL_GAS:

API #:	0408322702	Well #:	268
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 268
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	02/01/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322702		

Map ID: 278

OIL_GAS:

API #:	0408322617	Well #:	227
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 227
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/02/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322617		

Map ID: 279

OIL_GAS:

API #:	0408322618	Well #:	228
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 228
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322618		

Map ID: 280

OIL_GAS:

API #:	0408322614	Well #:	222
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 222
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/04/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322614		

Map ID: 281

OIL_GAS:

API #:	0408322732	Well #:	283
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 283
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/14/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322732		

Map ID: 282

OIL_GAS:

API #:	0408322586	Well #:	206
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 206
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/23/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322586		

Map ID: 283

OIL_GAS:

API #:	0408322608	Well #:	218
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 218
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/04/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322608		

Map ID: 284

OIL_GAS:

API #:	0408322698	Well #:	245
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 245
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	01/17/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322698		

Map ID: 285

OIL_GAS:

API #:	0408322615	Well #:	223
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove 223
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322615		

Map ID: 286

OIL_GAS:

API #:	0408322531	Well #:	314H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 314H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322531		

Map ID: 287

OIL_GAS:

API #:	0408322725	Well #:	246
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 246
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/10/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322725		

Map ID: 288

OIL_GAS:

API #:	0408322616	Well #:	224
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 224
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322616		

Map ID: 289

OIL_GAS:

API #:	0408322609	Well #:	219
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 219
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322609		

Map ID: 290

OIL_GAS:

API #:	0408302336	Well #:	94
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 94
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302336		

Map ID: 291

OIL_GAS:

API #:	0408322529	Well #:	313H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 313H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322529		

Map ID: 292

OIL_GAS:

API #:	0408322671	Well #:	243
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 243
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322671		

Map ID: 293

OIL_GAS:

API #:	0408322449	Well #:	304
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 304
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322449		

Map ID: 294

OIL_GAS:

API #:	0408322610	Well #:	220
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 220
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322610		

Map ID: 295

OIL_GAS:

API #:	0408322674	Well #:	269
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 269
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	09/13/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322674		

Map ID: 296

OIL_GAS:

API #:	0408322612	Well #:	225
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 225
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/14/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322612		

Map ID: 297

OIL_GAS:

API #:	0408322703	Well #:	271
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 271
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/07/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322703		

Map ID: 298

OIL_GAS:

API #:	0408322683	Well #:	242
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 242
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322683		

Map ID: 299

OIL_GAS:

API #:	0408322670	Well #:	241
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 241
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/29/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322670		

Map ID: 300

OIL_GAS:

API #:	0408322611	Well #:	221
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 221
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322611		

Map ID: 301

OIL_GAS:

API #:	0408302298	Well #:	43
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 43
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302298		

Map ID: 302

OIL_GAS:

API #:	0408322916	Well #:	2
Well Type:	Observation	Well Status:	Active
Lease Name:	AB	Well Design:	AB 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/24/2015		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322916		

Map ID: 303

OIL_GAS:

API #:	0408322921	Well #:	2A
Well Type:	Observation	Well Status:	Plugged
Lease Name:	AB	Well Design:	AB 2A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	09/02/2015		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322921		

Map ID: 304

OIL_GAS:

API #:	0408322704	Well #:	273
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 273
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/18/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322704		

Map ID: 305

OIL_GAS:

API #:	0408322705	Well #:	274
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 274
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/14/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322705		

Map ID: 306

OIL_GAS:

API #:	0408322619	Well #:	229
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 229
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/16/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322619		

Map ID: 307

OIL_GAS:

API #:	0408322585	Well #:	207
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 207
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322585		

Map ID: 308

OIL_GAS:

API #:	0408322620	Well #:	230
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 230
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/11/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322620		

Map ID: 309

OIL_GAS:

API #:	0408322621	Well #:	231
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 231
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/13/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322621		

Map ID: 310

OIL_GAS:

API #:	0408322627	Well #:	235
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 235
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/15/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322627		

Map ID: 311

OIL_GAS:

API #:	0408322606	Well #:	216
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 216
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/02/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322606		

Map ID: 312

OIL_GAS:

API #:	0408322434	Well #:	301
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 301
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322434		

Map ID: 313

OIL_GAS:

API #:	0408322669	Well #:	238
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 238
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/10/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322669		

Map ID: 314

OIL_GAS:

API #:	0408322607	Well #:	217
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 217
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322607		

Map ID: 315

OIL_GAS:

API #:	0408322622	Well #:	232
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 232
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322622		

Map ID: 316

OIL_GAS:

API #:	0408322695	Well #:	403
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 403
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	11/29/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322695		

Map ID: 317

OIL_GAS:

API #:	0408322593	Well #:	211
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 211
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322593		

Map ID: 318

OIL_GAS:

API #:	0408322598	Well #:	226
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 226
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322598		

Map ID: 319

OIL_GAS:

API #:	0408322625	Well #:	233
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 233
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/21/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322625		

Map ID: 320

OIL_GAS:

API #:	0408322626	Well #:	234
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 234
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/04/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322626		

Map ID: 321

OIL_GAS:

API #:	0408322706	Well #:	239
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 239
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/01/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322706		

Map ID: 322

OIL_GAS:

API #:	0408322731	Well #:	275
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 275
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/16/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322731		

Map ID: 323

OIL_GAS:

API #:	0408322595	Well #:	213
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 213
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/21/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322595		

Map ID: 324

OIL_GAS:

API #:	0408322594	Well #:	212
Well Type:	Multi-Purpose	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 212
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	05/16/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322594		

Map ID: 325

OIL_GAS:

API #:	0408322707	Well #:	240
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 240
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/08/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322707		

Map ID: 326

OIL_GAS:

API #:	0408322542	Well #:	316H
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 316H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/22/2008		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322542		

Map ID: 327

OIL_GAS:

API #:	0408322917	Well #:	3
Well Type:	Observation	Well Status:	New
Lease Name:	AB	Well Design:	AB 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/14/2015		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322917		

Map ID: 328

OIL_GAS:

API #:	0408302287	Well #:	31
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 31
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	05/14/1909		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302287		

Map ID: 329

OIL_GAS:

API #:	0408322596	Well #:	214
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 214
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322596		

Map ID: 330

OIL_GAS:

API #:	0408322584	Well #:	208
Well Type:	Cyclic Steam	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 208
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322584		

Map ID: 331

OIL_GAS:

API #:	0408322597	Well #:	215
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 215
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/13/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322597		

Map ID: 332

OIL_GAS:

API #:	0408322690	Well #:	244
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 244
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	10/04/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322690		

Map ID: 333

OIL_GAS:

API #:	0408322668	Well #:	237
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 237
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/22/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322668		

Map ID: 334

OIL_GAS:

API #:	0408302324	Well #:	79
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 79
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302324		

Map ID: 335

OIL_GAS:

API #:	0408302244	Well #:	75
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 75
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/24/1947		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302244		

Map ID: 336

OIL_GAS:

API #:	0408302314	Well #:	62
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 62
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302314		

Map ID: 337

OIL_GAS:

API #:	0408300648	Well #:	100
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 100
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300648		

Map ID: 338

OIL_GAS:

API #:	0408322642	Well #:	329H
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 329H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	02/22/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322642		

Map ID: 339

OIL_GAS:

API #:	0408322524	Well #:	112
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 112
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322524		

Map ID: 340

OIL_GAS:

API #:	0408322530	Well #:	357I
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 357I
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	10/20/2008		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322530		

Map ID: 341

OIL_GAS:

API #:	0408322526	Well #:	113
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 113
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322526		

Map ID: 342

OIL_GAS:

API #:	0408302238	Well #:	34
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 34
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	09/16/1909		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302238		

Map ID: 343

OIL_GAS:

API #:	0408302297	Well #:	42
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 42
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302297		

Map ID: 344

OIL_GAS:

API #:	0408321415	Well #:	102
Well Type:	Injection	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 102
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Any Field	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321415		

Map ID: 345

OIL_GAS:

API #:	0408302276	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 16
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302276		

Map ID: 346

OIL_GAS:

API #:	0408322920	Well #:	6
Well Type:	Observation	Well Status:	Plugged
Lease Name:	AB	Well Design:	AB 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322920		

Map ID: 347

OIL_GAS:

API #:	0408322676	Well #:	2110
Well Type:	Cyclic Steam	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 2110
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322676		

Map ID: 348

OIL_GAS:

API #:	0408322745	Well #:	2113
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2113
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/04/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322745		

Map ID: 349

OIL_GAS:

API #:	0408322744	Well #:	2112
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2112
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/29/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322744		

Map ID: 350

OIL_GAS:

API #:	0408322742	Well #:	2107
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2107
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/31/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322742		

Map ID: 351

OIL_GAS:

API #:	0408322743	Well #:	2108
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2108
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/26/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322743		

Map ID: 352

OIL_GAS:

API #:	0408322741	Well #:	2102
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2102
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/02/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322741		

Map ID: 353

OIL_GAS:

API #:	0408322740	Well #:	2101
Well Type:	Multi-Purpose	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 2101
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/20/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322740		

Map ID: 354

OIL_GAS:

API #:	0408322675	Well #:	2103
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2103
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/02/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322675		

Map ID: 355

OIL_GAS:

API #:	0408302241	Well #:	66
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 66
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	10/06/1946		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302241		

Map ID: 356

OIL_GAS:

API #:	0408322919	Well #:	5
Well Type:	Observation	Well Status:	New
Lease Name:	AB	Well Design:	AB 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322919		

Map ID: 357

OIL_GAS:

API #:	0408322923	Well #:	5A
Well Type:	Observation	Well Status:	Plugged
Lease Name:	AB	Well Design:	AB 5A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322923		

Map ID: 358

OIL_GAS:

API #:	0408322754	Well #:	2124
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2124
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/14/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322754		

Map ID: 359

OIL_GAS:

API #:	0408322677	Well #:	2116
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2116
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/20/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322677		

Map ID: 360

OIL_GAS:

API #:	0408322755	Well #:	2125
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2125
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/13/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322755		

Map ID: 361

OIL_GAS:

API #:	0408322751	Well #:	2115
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2115
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/07/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322751		

Map ID: 362

OIL_GAS:

API #:	0408322752	Well #:	2117
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2117
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/11/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322752		

Map ID: 363

OIL_GAS:

API #:	0408322678	Well #:	2119
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2119
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/26/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322678		

Map ID: 364

OIL_GAS:

API #:	0408322679	Well #:	2123
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2123
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/21/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322679		

Map ID: 365

OIL_GAS:

API #:	0408322753	Well #:	2120
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2120
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/10/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322753		

Map ID: 366

OIL_GAS:

API #:	0408322643	Well #:	236
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 236
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/02/2011		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322643		

Map ID: 367

OIL_GAS:

API #:	0408302251	Well #:	61
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 61
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	05/14/1947		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302251		

Map ID: 368

OIL_GAS:

API #:	0408322547	Well #:	322H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 322H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322547		

Map ID: 369

OIL_GAS:

API #:	0408302311	Well #:	57
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 57
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302311		

Map ID: 370

OIL_GAS:

API #:	0408302320	Well #:	71
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 71
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302320		

Map ID: 371

OIL_GAS:

API #:	0408302330	Well #:	87
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 87
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302330		

Map ID: 372

OIL_GAS:

API #:	0408302327	Well #:	82
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 82
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302327		

Map ID: 373

OIL_GAS:

API #:	0408302243	Well #:	70
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 70
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	02/19/1947		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302243		

Map ID: 374

OIL_GAS:

API #:	0408322425	Well #:	302
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 302
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322425		

Map ID: 375

OIL_GAS:

API #:	0408302338	Well #:	96
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 96
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302338		

Map ID: 376

OIL_GAS:

API #:	0408322630	Well #:	TH-1A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove TH-1A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322630		

Map ID: 377

OIL_GAS:

API #:	0408322589	Well #:	TH-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove TH-1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322589		

Map ID: 378

OIL_GAS:

API #:	0408302342	Well #:	102
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 102
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	11/26/1951		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302342		

Map ID: 379

OIL_GAS:

API #:	0408302340	Well #:	99
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 99
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302340		

Map ID: 380

OIL_GAS:

API #:	0408320510	Well #:	107
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 107
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320510		

Map ID: 381

OIL_GAS:

API #:	0408322544	Well #:	318H
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 318H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	01/25/2009		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322544		

Map ID: 382

OIL_GAS:

API #:	0408322918	Well #:	4
Well Type:	Observation	Well Status:	Plugged
Lease Name:	AB	Well Design:	AB 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/11/2015		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322918		

Map ID: 383

OIL_GAS:

API #:	0408322922	Well #:	4A
Well Type:	Observation	Well Status:	Plugged
Lease Name:	AB	Well Design:	AB 4A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322922		

Map ID: 384

OIL_GAS:

API #:	0408302339	Well #:	98
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 98
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302339		

Map ID: 385

OIL_GAS:

API #:	0408322447	Well #:	303
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 303
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322447		

Map ID: 386

OIL_GAS:

API #:	0408321377	Well #:	200
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 200
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321377		

Map ID: 387

OIL_GAS:

API #:	0408321433	Well #:	108
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 108
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/05/1980		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321433		

Map ID: 388

OIL_GAS:

API #:	0408302271	Well #:	10
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 10
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302271		

Map ID: 389

OIL_GAS:

API #:	0408302312	Well #:	58
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 58
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302312		

Map ID: 390

OIL_GAS:

API #:	0408302249	Well #:	88
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 88
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302249		

Map ID: 391

OIL_GAS:

API #:	0408302245	Well #:	77
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 77
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302245		

Map ID: 392

OIL_GAS:

API #:	0408302304	Well #:	49
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 49
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302304		

Map ID: 393

OIL_GAS:

API #:	0408322502	Well #:	305H
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 305H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/01/2007		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322502		

Map ID: 394

OIL_GAS:

API #:	0408302270	Well #:	9
Well Type:	Water Disposal	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 9
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302270		

Map ID: 395

OIL_GAS:

API #:	0408322532	Well #:	358I
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove 358I
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322532		

Map ID: 396

OIL_GAS:

API #:	0408322533	Well #:	315H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 315H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322533		

Map ID: 397

OIL_GAS:

API #:	0408302272	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 12
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302272		

Map ID: 398

OIL_GAS:

API #:	0408302234	Well #:	11
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 11
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302234		

Map ID: 399

OIL_GAS:

API #:	0408302303	Well #:	48
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 48
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302303		

Map ID: 400

OIL_GAS:

API #:	0408302273	Well #:	13
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 13
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/30/1907		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302273		

Map ID: 401

OIL_GAS:

API #:	0408320320	Well #:	104
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 104
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320320		

Map ID: 402

OIL_GAS:

API #:	0408322821	Well #:	TH-09
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove TH-09
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322821		

Map ID: 403

OIL_GAS:

API #:	0408302274	Well #:	14
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 14
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	07/06/1907		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302274		

Map ID: 404

OIL_GAS:

API #:	0408322588	Well #:	TH-2
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove TH-2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	03/26/2010		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322588		

Map ID: 405

OIL_GAS:

API #:	0408322428	Well #:	32-21Z
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 32-21Z
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/10/2006		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322428		

Map ID: 406

OIL_GAS:

API #:	0408321892	Well #:	109
Well Type:	Water Disposal	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 109
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321892		

Map ID: 407

OIL_GAS:

API #:	0408301225	Well #:	1
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Lease by Los Flores Land & Oil Co.		
Well Design:	1	Operator ID:	05433
Operator Name:	Los Flores Land & Oil Co.	Field Name:	Any Field
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301225		

Map ID: 408

OIL_GAS:

API #:	0408322525	Well #:	111
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 111
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	09/25/2008		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322525		

Map ID: 409

OIL_GAS:

API #:	0408302305	Well #:	50
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 50
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302305		

Map ID: 410

OIL_GAS:

API #:	0408322549	Well #:	327H
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 327H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322549		

Map ID: 411

OIL_GAS:

API #:	0408322543	Well #:	317H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 317H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322543		

Map ID: 412

OIL_GAS:

API #:	0408322629	Well #:	328H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 328H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322629		

Map ID: 413

OIL_GAS:

API #:	0408302266	Well #:	2
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/01/1906		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302266		

Map ID: 414

OIL_GAS:

API #:	0408302265	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302265		

Map ID: 415

OIL_GAS:

API #:	0408321951	Well #:	17A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 17A
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321951		

Map ID: 416

OIL_GAS:

API #:	0408302235	Well #:	17
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 17
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302235		

Map ID: 417

OIL_GAS:

API #:	0408302232	Well #:	5
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302232		

Map ID: 418

OIL_GAS:

API #:	0408322820	Well #:	TH-12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove TH-12
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	06/01/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322820		

Map ID: 419

OIL_GAS:

API #:	0408302268	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302268		

Map ID: 420

OIL_GAS:

API #:	0408302300	Well #:	45
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 45
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302300		

Map ID: 421

OIL_GAS:

API #:	0408302302	Well #:	47
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Newlove	Well Design:	Newlove 47
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302302		

Map ID: 422

OIL_GAS:

API #:	0408302233	Well #:	6
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/01/1907		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302233		

Map ID: 423

OIL_GAS:

API #:	0408322506	Well #:	307H
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 307H
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322506		

Map ID: 424

OIL_GAS:

API #:	0408302299	Well #:	44
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 44
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302299		

Map ID: 425

OIL_GAS:

API #:	0408302294	Well #:	39
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 39
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302294		

Map ID: 426

OIL_GAS:

API #:	0408302295	Well #:	40
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Newlove	Well Design:	Newlove 40
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302295		

Map ID: 427

OIL_GAS:

API #:	0408302293	Well #:	38
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Newlove	Well Design:	Newlove 38
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302293		

Map ID: 428

OIL_GAS:

API #:	0408302182	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 15
Operator ID:	N2305	Operator Name:	Nuevo Energy Company
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302182		

Map ID: 429

OIL_GAS:

API #:	0408302267	Well #:	3
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302267		

Map ID: 430

OIL_GAS:

API #:	0408302183	Well #:	17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 17
Operator ID:	N2305	Operator Name:	Nuevo Energy Company
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302183		

Map ID: 431

OIL_GAS:

API #:	0408302301	Well #:	46
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Newlove	Well Design:	Newlove 46
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302301		

Map ID: 432

OIL_GAS:

API #:	0408302174	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302174		

Map ID: 433

OIL_GAS:

API #:	0408302231	Well #:	14
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	Graciosa	Well Design:	Graciosa 14
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302231		

Map ID: 434

OIL_GAS:

API #:	0408302170	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302170		

Map ID: 435

OIL_GAS:

API #:	0408302171	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302171		

Map ID: 436

OIL_GAS:

API #:	0408302172	Well #:	3
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Graciosa	Well Design:	Graciosa 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302172		

Map ID: 437

OIL_GAS:

API #:	0408302040	Well #:	4
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	4	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302040		

Map ID: 438

OIL_GAS:

API #:	0408302082	Well #:	48
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	48	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302082		

Map ID: 439

OIL_GAS:

API #:	0408302083	Well #:	49
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	49	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302083		

Map ID: 440

OIL_GAS:

API #:	0408321414	Well #:	18-33
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	18-33	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Any Field
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321414		

Map ID: 441

OIL_GAS:

API #:	0408302099	Well #:	65
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 65
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302099		

Map ID: 442

OIL_GAS:

API #:	0408302053	Well #:	17
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Careaga	Well Design:	Careaga 17
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302053		

Map ID: 443

OIL_GAS:

API #:	0408302048	Well #:	12
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	12	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302048		

Map ID: 444

OIL_GAS:

API #:	0408302043	Well #:	7
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	7	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302043		

Map ID: 445

OIL_GAS:

API #:	0408302055	Well #:	19
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	19	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302055		

Map ID: 446

OIL_GAS:

API #:	0408302086	Well #:	52
Well Type:	Oil & Gas	Well Status:	Active

Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	52	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302086		

Map ID: 447

OIL_GAS:

API #:	0408302051	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	15	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302051		

Map ID: 448

OIL_GAS:

API #:	0408302096	Well #:	62
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 62
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302096		

Map ID: 449

OIL_GAS:

API #:	0408302046	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	10	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302046		

Map ID: 450

OIL_GAS:

API #:	0408302049	Well #:	13
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	13	Operator ID:	10379

Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302049		

Map ID: 451

OIL_GAS:

API #:	0408302095	Well #:	61
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 61
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302095		

Map ID: 452

OIL_GAS:

API #:	0408302057	Well #:	21
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 21
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302057		

Map ID: 453

OIL_GAS:

API #:	0408302122	Well #:	90
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	90	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302122		

Map ID: 454

OIL_GAS:

API #:	0408302037	Well #:	A-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	A-1	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County

GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302037		

Map ID: 455

OIL_GAS:

API #:	0408302060	Well #:	24
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 24
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302060		

Map ID: 456

OIL_GAS:

API #:	0408302039	Well #:	3
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	3	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302039		

Map ID: 457

OIL_GAS:

API #:	0408321828	Well #:	20
Well Type:	Waterflood	Well Status:	Active
Lease Name:	Graciosa	Well Design:	Graciosa 20
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	04/20/1983		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321828		

Map ID: 458

OIL_GAS:

API #:	0408302110	Well #:	77
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	77	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N

Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302110		

Map ID: 459

OIL_GAS:

API #:	0408302056	Well #:	20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	20	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302056		

Map ID: 460

OIL_GAS:

API #:	0408302044	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	8	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302044		

Map ID: 461

OIL_GAS:

API #:	0408322959	Well #:	D-5
Well Type:	Observation	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	D-5	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	03/10/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322959		

Map ID: 462

OIL_GAS:

API #:	0408302038	Well #:	B-1
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	B-1	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302038		

Map ID: 463

OIL_GAS:

API #:	0408302052	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	16	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302052		

Map ID: 464

OIL_GAS:

API #:	0408302124	Well #:	92
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	92	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302124		

Map ID: 465

OIL_GAS:

API #:	0408320317	Well #:	B-5
Well Type:	Water Disposal	Well Status:	Idle
Lease Name:	Careaga	Well Design:	Careaga B-5
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	11/12/1970		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320317		

Map ID: 466

OIL_GAS:

API #:	0408302041	Well #:	5
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	5	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302041		

Map ID: 467

OIL_GAS:

API #:	0408302117	Well #:	84
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 84
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302117		

Map ID: 468

OIL_GAS:

API #:	0408320291	Well #:	B-3
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	B-3	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320291		

Map ID: 469

OIL_GAS:

API #:	0408321952	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Schlitz	Well Design:	Schlitz 1
Operator ID:	U0200		
Operator Name:	Union Oil Company of California		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321952		

Map ID: 470

OIL_GAS:

API #:	0408302180	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 11
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	11/12/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302180		

Map ID: 471

OIL_GAS:

API #:	0408302179	Well #:	10
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Graciosa	Well Design:	Graciosa 10
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302179		

Map ID: 472

OIL_GAS:

API #:	0408302188	Well #:	5
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Harris	Well Design:	Harris 5
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302188		

Map ID: 473

OIL_GAS:

API #:	0408302045	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	9	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302045		

Map ID: 474

OIL_GAS:

API #:	0408322958	Well #:	D-2
Well Type:	Observation	Well Status:	New
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	D-2	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Notice of Intent to Drill	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322958		

Map ID: 475

OIL_GAS:

API #:	0408302177	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 8
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302177		

Map ID: 476

OIL_GAS:

API #:	0408302184	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Harris	Well Design:	Harris 1
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302184		

Map ID: 477

OIL_GAS:

API #:	0408302088	Well #:	54
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	54	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302088		

Map ID: 478

OIL_GAS:

API #:	0408302059	Well #:	23
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 23
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302059		

Map ID: 479

OIL_GAS:

API #:	0408302058	Well #:	22
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 22
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302058		

Map ID: 480

OIL_GAS:

API #:	0408302084	Well #:	50
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	50	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302084		

Map ID: 481

OIL_GAS:

API #:	0408302050	Well #:	14
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	14	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302050		

Map ID: 482

OIL_GAS:

API #:	0408302181	Well #:	13
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Graciosa	Well Design:	Graciosa 13
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302181		

Map ID: 483

OIL_GAS:

API #:	0408302186	Well #:	3

Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Harris	Well Design:	Harris 3
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302186		

Map ID: 484

OIL_GAS:

API #:	0408322951	Well #:	47-A
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47-A	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	02/28/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322951		

Map ID: 485

OIL_GAS:

API #:	0408322952	Well #:	47-B
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47-B	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	02/24/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322952		

Map ID: 486

OIL_GAS:

API #:	0408322953	Well #:	47-C
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47-C	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	02/21/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322953		

Map ID: 487

OIL_GAS:

API #:	0408322954	Well #:	47-D
Well Type:	Cyclic Steam	Well Status:	Active

Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47-D	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	02/17/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322954		

Map ID: 488

OIL_GAS:

API #:	0408302097	Well #:	63
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 63
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302097		

Map ID: 489

OIL_GAS:

API #:	0408322955	Well #:	47-E
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47-E	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	02/13/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322955		

Map ID: 490

OIL_GAS:

API #:	0408302081	Well #:	47
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302081		

Map ID: 491

OIL_GAS:

API #:	0408322956	Well #:	47-F
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47-F	Operator ID:	10379

Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Notice of Intent to Drill	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322956		

Map ID: 492

OIL_GAS:

API #:	0408322957	Well #:	47-G
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47-G	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	02/07/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322957		

Map ID: 493

OIL_GAS:

API #:	0408302054	Well #:	18
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	18	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302054		

Map ID: 494

OIL_GAS:

API #:	0408302094	Well #:	60
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 60
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302094		

Map ID: 495

OIL_GAS:

API #:	0408302091	Well #:	57
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	57	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County

GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302091		

Map ID: 496

OIL_GAS:

API #:	0408301365	Well #:	1-5
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	1-5	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Any Field
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301365		

Map ID: 497

OIL_GAS:

API #:	0408302042	Well #:	6
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	6	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302042		

Map ID: 498

OIL_GAS:

API #:	0408302100	Well #:	66
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 66
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	10/09/2012		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302100		

Map ID: 499

OIL_GAS:

API #:	0408302119	Well #:	86
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	86	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=08302119

Map ID: 500

OIL_GAS:

API #:	0408322961	Well #:	D-3
Well Type:	Observation	Well Status:	New
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	D-3	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Notice of Intent to Drill	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322961		

Map ID: 501

OIL_GAS:

API #:	0408302085	Well #:	51
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	51	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302085		

Map ID: 502

OIL_GAS:

API #:	0408302065	Well #:	29
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	29	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302065		

Map ID: 503

OIL_GAS:

API #:	0408302120	Well #:	88
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	88	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302120		

Map ID: 504

OIL_GAS:

API #:	0408302173	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302173		

Map ID: 505

OIL_GAS:

API #:	0408322946	Well #:	1312-A
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1312-A	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Notice of Intent to Drill	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322946		

Map ID: 506

OIL_GAS:

API #:	0408322947	Well #:	1312-B
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1312-B	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	01/14/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322947		

Map ID: 507

OIL_GAS:

API #:	0408322948	Well #:	1312-C
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1312-C	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	01/20/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322948		

Map ID: 508

OIL_GAS:

API #:	0408302125	Well #:	93
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	93	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302125		

Map ID: 509

OIL_GAS:

API #:	0408302061	Well #:	25
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 25
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302061		

Map ID: 510

OIL_GAS:

API #:	0408322950	Well #:	1312-E
Well Type:	Cyclic Steam	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1312-E	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Notice of Intent to Drill	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322950		

Map ID: 511

OIL_GAS:

API #:	0408322554	Well #:	1312
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1312	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322554		

Map ID: 512

OIL_GAS:

API #:	0408322949	Well #:	1312-D
Well Type:	Cyclic Steam	Well Status:	Active

Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1312-D	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Notice of Intent to Drill	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322949		

Map ID: 513

OIL_GAS:

API #:	0408302106	Well #:	73
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	73	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302106		

Map ID: 514

OIL_GAS:

API #:	0408302064	Well #:	28-36
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 28-36
Operator ID:	P3127	Operator Name:	Santa Maria Energy, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	11/30/1905		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302064		

Map ID: 515

OIL_GAS:

API #:	0408302047	Well #:	11
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	11	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302047		

Map ID: 516

OIL_GAS:

API #:	0408302107	Well #:	74
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 74
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC

Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302107		

Map ID: 517

OIL_GAS:

API #:	0408320283	Well #:	B-2
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	B-2	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320283		

Map ID: 518

OIL_GAS:

API #:	0408302093	Well #:	59
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	59	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302093		

Map ID: 519

OIL_GAS:

API #:	0408302078	Well #:	44
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	44	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302078		

Map ID: 520

OIL_GAS:

API #:	0408302123	Well #:	91
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 91
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302123		

Map ID: 521

OIL_GAS:

API #:	0408302175	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 6
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302175		

Map ID: 522

OIL_GAS:

API #:	0408322507	Well #:	2014X
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	2014X	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322507		

Map ID: 523

OIL_GAS:

API #:	0408322653	Well #:	1914
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1914	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	03/16/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322653		

Map ID: 524

OIL_GAS:

API #:	0408322557	Well #:	1814
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1814	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N

Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322557		

Map ID: 525

OIL_GAS:

API #:	0408322644	Well #:	1514
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1514	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	04/10/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322644		

Map ID: 526

OIL_GAS:

API #:	0408322651	Well #:	1714
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1714	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	03/22/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322651		

Map ID: 527

OIL_GAS:

API #:	0408302111	Well #:	78
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 78
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302111		

Map ID: 528

OIL_GAS:

API #:	0408322561	Well #:	1915
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1915	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322561		

Map ID: 529

OIL_GAS:

API #:	0408302098	Well #:	64
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 64
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302098		

Map ID: 530

OIL_GAS:

API #:	0408322558	Well #:	1815
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1815	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	05/17/2009
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322558		

Map ID: 531

OIL_GAS:

API #:	0408322555	Well #:	1715
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1715	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	05/15/2009
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322555		

Map ID: 532

OIL_GAS:

API #:	0408322654	Well #:	1615
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1615	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	04/01/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322654		

Map ID: 533

OIL_GAS:

API #:	0408302103	Well #:	69
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 69
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302103		

Map ID: 534

OIL_GAS:

API #:	0408322645	Well #:	1515
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1515	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	04/15/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322645		

Map ID: 535

OIL_GAS:

API #:	0408302178	Well #:	9
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Graciosa	Well Design:	Graciosa 9
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302178		

Map ID: 536

OIL_GAS:

API #:	0408302109	Well #:	76
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	76	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302109		

Map ID: 537

OIL_GAS:

API #:	0408302118	Well #:	85

Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	85	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302118		

Map ID: 538

OIL_GAS:

API #:	0408322476	Well #:	2716X
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	2716X	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322476		

Map ID: 539

OIL_GAS:

API #:	0408322960	Well #:	D-4
Well Type:	Observation	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	D-4	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	03/13/2019
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322960		

Map ID: 540

OIL_GAS:

API #:	0408322562	Well #:	1916
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1916	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322562		

Map ID: 541

OIL_GAS:

API #:	0408302077	Well #:	43
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		

Well Design:	43	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302077		

Map ID: 542

OIL_GAS:

API #:	0408322559	Well #:	1816
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1816	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	05/13/2009
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322559		

Map ID: 543

OIL_GAS:

API #:	0408322556	Well #:	1716
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1716	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	05/19/2009
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322556		

Map ID: 544

OIL_GAS:

API #:	0408322571	Well #:	1716E
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1716E	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Operator	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322571		

Map ID: 545

OIL_GAS:

API #:	0408322646	Well #:	1516
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1516	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt

Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	04/02/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322646		

Map ID: 546

OIL_GAS:

API #:	0408322649	Well #:	1616
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1616	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	04/06/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322649		

Map ID: 547

OIL_GAS:

API #:	0408322563	Well #:	1917
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1917	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	05/07/2009
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322563		

Map ID: 548

OIL_GAS:

API #:	0408322560	Well #:	1817
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1817	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	05/02/2009
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322560		

Map ID: 549

OIL_GAS:

API #:	0408322652	Well #:	1717
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1717	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N

Directionally Drilled:	N	Spud Date:	03/28/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322652		

Map ID: 550

OIL_GAS:

API #:	0408322650	Well #:	1617
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1617	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	04/24/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322650		

Map ID: 551

OIL_GAS:

API #:	0408302075	Well #:	40
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	40	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302075		

Map ID: 552

OIL_GAS:

API #:	0408320595	Well #:	34X
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Harris Ranch	Well Design:	Harris Ranch 34X
Operator ID:	T4475	Operator Name:	Triton Oil & Gas Corp.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320595		

Map ID: 553

OIL_GAS:

API #:	0408322647	Well #:	1517
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1517	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	04/28/2011
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322647		

Map ID: 554

OIL_GAS:

API #:	0408322210	Well #:	4A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 4A
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322210		

Map ID: 555

OIL_GAS:

API #:	0408322208	Well #:	2A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 2A
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322208		

Map ID: 556

OIL_GAS:

API #:	0408302121	Well #:	89
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	89	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302121		

Map ID: 557

OIL_GAS:

API #:	0408322565	Well #:	3318
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	3318	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	05/26/2009
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322565		

Map ID: 558

OIL_GAS:

API #:	0408302079	Well #:	45
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 45
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302079		

Map ID: 559

OIL_GAS:

API #:	0408322211	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 5
Operator ID:	G0325	Operator Name:	Geo Petroleum Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322211		

Map ID: 560

OIL_GAS:

API #:	0408320182	Well #:	1
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Harris Canyon	Well Design:	Harris Canyon 1
Operator ID:	03823	Operator Name:	Harris Canyon Assoc.
Field Name:	Any Field	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320182		

Map ID: 561

OIL_GAS:

API #:	0408302070	Well #:	34
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	34	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	06/01/1907
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302070		

Map ID: 562

OIL_GAS:

API #:	0408322347	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged

Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	1	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Operator	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322347		

Map ID: 563

OIL_GAS:

API #:	0408322287	Well #:	1
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Careaga	Well Design:	Careaga 1
Operator ID:	P3125	Operator Name:	Phoenix Energy, Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322287		

Map ID: 564

OIL_GAS:

API #:	0408322207	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 1
Operator ID:	G0325	Operator Name:	Geo Petroleum Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322207		

Map ID: 565

OIL_GAS:

API #:	0408302066	Well #:	30
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	30	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302066		

Map ID: 566

OIL_GAS:

API #:	0408322348	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	2	Operator ID:	10379

Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322348		

Map ID: 567

OIL_GAS:

API #:	0408302185	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Harris	Well Design:	Harris 2
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302185		

Map ID: 568

OIL_GAS:

API #:	0408302068	Well #:	32
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 32
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302068		

Map ID: 569

OIL_GAS:

API #:	0408322209	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 3
Operator ID:	G0325	Operator Name:	Geo Petroleum Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322209		

Map ID: 570

OIL_GAS:

API #:	0408302102	Well #:	68
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 68
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Not Reported

Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302102		

Map ID: 571

OIL_GAS:

API #:	0408302176	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 7
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302176		

Map ID: 572

OIL_GAS:

API #:	0408302062	Well #:	26
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 26
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302062		

Map ID: 573

OIL_GAS:

API #:	0408302112	Well #:	79
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 79
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302112		

Map ID: 574

OIL_GAS:

API #:	0408320440	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Harris	Well Design:	Harris 1
Operator ID:	P4800	Operator Name:	Pyramid Oil Company
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320440		

Map ID: 575

OIL_GAS:

API #:	0408302071	Well #:	36
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	36	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302071		

Map ID: 576

OIL_GAS:

API #:	0408302072	Well #:	37
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	37	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302072		

Map ID: 577

OIL_GAS:

API #:	0408322220	Well #:	6
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 6
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	02/21/1992		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322220		

Map ID: 578

OIL_GAS:

API #:	0408302108	Well #:	75
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 75
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=08302108

Map ID: 579

OIL_GAS:

API #:	0408320316	Well #:	B-4
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	B-4	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320316		

Map ID: 580

OIL_GAS:

API #:	0408322214	Well #:	6724X
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 6724X
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322214		

Map ID: 581

OIL_GAS:

API #:	0408322566	Well #:	3823
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	3823	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322566		

Map ID: 582

OIL_GAS:

API #:	0408322196	Well #:	146D
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 146D
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	11/10/1989		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322196		

Map ID: 583

OIL_GAS:

API #:	0408302080	Well #:	46
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 46
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302080		

Map ID: 584

OIL_GAS:

API #:	0408322517	Well #:	3024
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	3024	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322517		

Map ID: 585

OIL_GAS:

API #:	0408322564	Well #:	2624
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	2624	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322564		

Map ID: 586

OIL_GAS:

API #:	0408321379	Well #:	136
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 136
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321379		

Map ID: 587

OIL_GAS:

API #:	0408302076	Well #:	41
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	41	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302076		

Map ID: 588

OIL_GAS:

API #:	0408322108	Well #:	126
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 126
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322108		

Map ID: 589

OIL_GAS:

API #:	0408302089	Well #:	55
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	55	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302089		

Map ID: 590

OIL_GAS:

API #:	0408302104	Well #:	70
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 70
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302104		

Map ID: 591

OIL_GAS:

API #:	0408320608	Well #:	47X
Well Type:	Oil & Gas	Well Status:	Active

Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	47X	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320608		

Map ID: 592

OIL_GAS:

API #:	0408320589	Well #:	16
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	16	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320589		

Map ID: 593

OIL_GAS:

API #:	0408320677	Well #:	36
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 36
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320677		

Map ID: 594

OIL_GAS:

API #:	0408302063	Well #:	27
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 27
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302063		

Map ID: 595

OIL_GAS:

API #:	0408321822	Well #:	47A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Careaga	Well Design:	Careaga 47A
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC

Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	05/02/1983		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321822		

Map ID: 596

OIL_GAS:

API #:	0408321957	Well #:	146
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 146
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321957		

Map ID: 597

OIL_GAS:

API #:	0408320678	Well #:	26
Well Type:	Water Disposal	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	26	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	11/12/1978
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320678		

Map ID: 598

OIL_GAS:

API #:	0408302074	Well #:	39
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	39	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302074		

Map ID: 599

OIL_GAS:

API #:	0408321223	Well #:	46
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 46
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321223		

Map ID: 600

OIL_GAS:

API #:	0408322215	Well #:	102
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 102
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322215		

Map ID: 601

OIL_GAS:

API #:	0408302187	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Harris	Well Design:	Harris 4
Operator ID:	B6127		
Operator Name:	Pacific Coast Energy Company LP		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302187		

Map ID: 602

OIL_GAS:

API #:	0408302090	Well #:	56
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	56	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302090		

Map ID: 603

OIL_GAS:

API #:	0408302113	Well #:	80
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	80	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Main	Place:	Santa Barbara County
GIS Source:	GPS	Confidential Well:	N

Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302113		

Map ID: 604

OIL_GAS:

API #:	0408321736	Well #:	46A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 46A
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321736		

Map ID: 605

OIL_GAS:

API #:	0408322474	Well #:	7330X
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 7330X
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322474		

Map ID: 606

OIL_GAS:

API #:	0408321204	Well #:	37
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Careaga	Well Design:	Careaga 37
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321204		

Map ID: 607

OIL_GAS:

API #:	0408321896	Well #:	147
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 147
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321896		

Map ID: 608

OIL_GAS:

API #:	0408302087	Well #:	53
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	53	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302087		

Map ID: 609

OIL_GAS:

API #:	0408302067	Well #:	31
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 31
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302067		

Map ID: 610

OIL_GAS:

API #:	0408321259	Well #:	37A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 37A
Operator ID:	10379	Operator Name:	NewBridge Resources, LLC
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321259		

Map ID: 611

OIL_GAS:

API #:	0408302069	Well #:	33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by NewBridge Resources, LLC		
Well Design:	33	Operator ID:	10379
Operator Name:	NewBridge Resources, LLC	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	Unknown	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302069		

Map ID: 612

OIL_GAS:

API #:	0408302073	Well #:	38
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 38
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302073		

Map ID: 613

OIL_GAS:

API #:	0408301978	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Unspecified	Well Design:	Unspecified 1
Operator ID:	00397	Operator Name:	Apache Oil Co
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301978		

Map ID: 614

OIL_GAS:

API #:	0408302114	Well #:	81
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 81
Operator ID:	S3100	Operator Name:	Shell Western E&P Inc.
Field Name:	Orcutt	Area Name:	Main
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302114		

Map ID: 615

OIL_GAS:

API #:	0408302115	Well #:	82
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 82
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302115		

Map ID: 616

OIL_GAS:

API #:	0408302105	Well #:	72
Well Type:	Oil & Gas	Well Status:	Plugged

Lease Name:	Careaga	Well Design:	Careaga 72
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302105		

Map ID: 617

OIL_GAS:

API #:	0408321739	Well #:	11
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	SLJV	Well Design:	SLJV 11
Operator ID:	02485	Operator Name:	Eagle Petro. Consultants
Field Name:	Any Field	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321739		

Map ID: 618

OIL_GAS:

API #:	0408321787	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Vandenberg	Well Design:	Vandenberg 1
Operator ID:	N2150		
Operator Name:	Northern Michigan Exploration Company		
Field Name:	Harris Canyon, Northwest (ABD)		
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321787		

Map ID: 619

OIL_GAS:

API #:	0408321680	Well #:	82
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Unspecified	Well Design:	Unspecified 82
Operator ID:	02485	Operator Name:	Eagle Petro. Consultants
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321680		

Map ID: 620

OIL_GAS:

API #:	0408301082	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 14

Operator ID:	S7200	Operator Name:	Oryx Energy Company
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301082		

Map ID: 621

OIL_GAS:

API #:	0408301984	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	1	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Orcutt
Area Name:	Not Reported	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301984		

Map ID: 622

OIL_GAS:

API #:	0408302101	Well #:	67
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 67
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302101		

Map ID: 623

OIL_GAS:

API #:	0408320104	Well #:	1
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Sharkey-Field	Well Design:	Sharkey-Field 1
Operator ID:	O0500		
Operator Name:	Occidental Petroleum Corporation		
Field Name:	Any Field	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08320104		

Map ID: 624

OIL_GAS:

API #:	0408301989	Well #:	19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graciosa	Well Design:	Graciosa 19
Operator ID:	06844	Operator Name:	Pinal Dome Corporation

Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301989		

Map ID: 625

OIL_GAS:

API #:	0408302116	Well #:	83
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 83
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302116		

Map ID: 626

OIL_GAS:

API #:	0408322052	Well #:	1-2
Well Type:	Dry Hole	Well Status:	Plugged
Lease Name:	Winters	Well Design:	Winters 1-2
Operator ID:	C7800	Operator Name:	Conoco Inc.
Field Name:	Any Field	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322052		

Map ID: 627

OIL_GAS:

API #:	0408301085	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301085		

Map ID: 628

OIL_GAS:

API #:	0408321601	Well #:	20-4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores Ranch	Well Design:	Los Flores Ranch 20-4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321601		

Map ID: 629

OIL_GAS:

API #:	0408301084	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301084		

Map ID: 630

OIL_GAS:

API #:	0408321337	Well #:	15-4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	15-4	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Four Deer (ABD)
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321337		

Map ID: 631

OIL_GAS:

API #:	0408301988	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 2
Operator ID:	07061		
Operator Name:	R. F. Oakes, F. W. Combs, et al		
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301988		

Map ID: 632

OIL_GAS:

API #:	0408321600	Well #:	19-4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores Ranch	Well Design:	Los Flores Ranch 19-4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=08321600

Map ID: 633

OIL_GAS:

API #:	0408301086	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301086		

Map ID: 634

OIL_GAS:

API #:	0408301083	Well #:	1
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301083		

Map ID: 635

OIL_GAS:

API #:	0408301080	Well #:	1-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	1-A	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Four Deer (ABD)
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301080		

Map ID: 636

OIL_GAS:

API #:	0408301089	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 8
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301089		

Map ID: 637

OIL_GAS:

API #:	0408302129	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 3
Operator ID:	S7200	Operator Name:	Oryx Energy Company
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302129		

Map ID: 638

OIL_GAS:

API #:	0408321207	Well #:	45
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Careaga	Well Design:	Careaga 45
Operator ID:	K2450	Operator Name:	Kore Energy LLC
Field Name:	Orcutt	Area Name:	Careaga
Place:	Santa Barbara County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321207		

Map ID: 639

OIL_GAS:

API #:	0408301088	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 7
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301088		

Map ID: 640

OIL_GAS:

API #:	0408301081	Well #:	7-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	7-A	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Four Deer (ABD)
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301081		

Map ID: 641

OIL_GAS:

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

API #:	0408301087	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301087		

Map ID: 642

OIL_GAS:

API #:	0408302092	Well #:	58
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Careaga	Well Design:	Careaga 58
Operator ID:	C1360	Operator Name:	CalResources LLC
Field Name:	Orcutt	Area Name:	Not Reported
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08302092		

Map ID: 643

OIL_GAS:

API #:	0408300267	Well #:	9
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 9
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08300267		

Map ID: 644

OIL_GAS:

API #:	0408301091	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Los Flores	Well Design:	Los Flores 11
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Four Deer (ABD)	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08301091		

Map ID: 645

OIL_GAS:

API #:	0408321841	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Lease Name:	Vandenberg	Well Design:	Vandenberg 2
Operator ID:	N2150		
Operator Name:	Northern Michigan Exploration Company		
Field Name:	Harris Canyon, Northwest (ABD)		
Area Name:	Any Area	Place:	Santa Barbara County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08321841		

Map ID: 646

OIL_GAS:

API #:	0408322011	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Barbara Investment	Well Design:	Barbara Investment 1
Operator ID:	G0325	Operator Name:	Geo Petroleum Inc.
Field Name:	Any Field	Area Name:	Any Area
Place:	Santa Barbara County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=08322011		

CALIFORNIA GOVERNMENT WELL RECORDS SEARCHED

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

CALIFORNIA GOVERNMENT WELL RECORDS SEARCHED

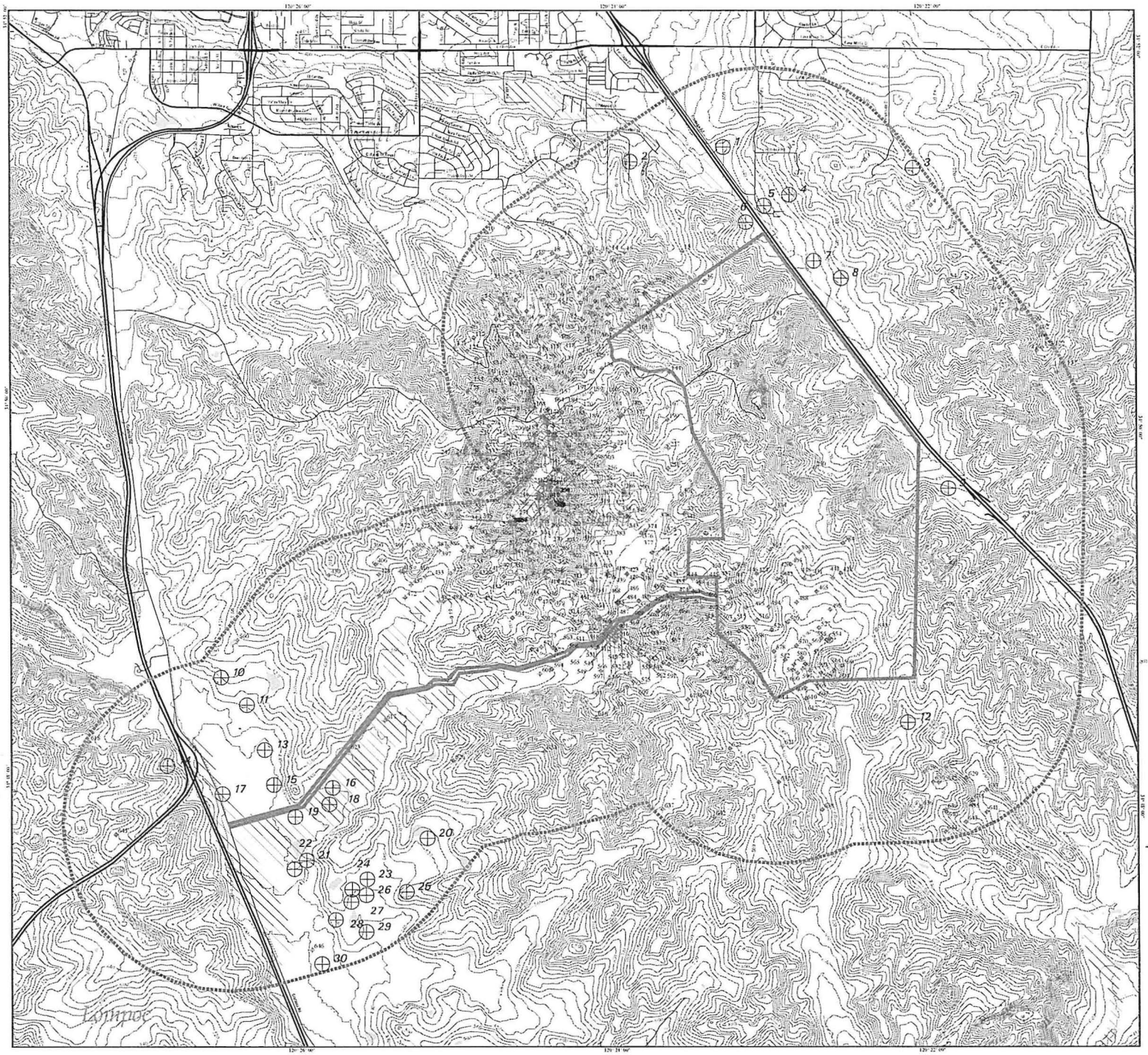
California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

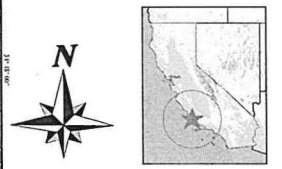
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EDR DataMap® Well Search

Solomon Hills Phase I

- Listed Water Wells
- Oil & Gas Wells
- Study Boundary
- Roads
- Major Roads
- Waterways
- Railroads
- Contour Lines
- Fault Lines
- Water
- Superfund Sites
- 100-Yr Flood Zones
- Wetlands



Santa Maria, CA

0 1/2 1

Scale in Miles

EDR® Environmental Data Resources Inc

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Appendix F

Sanborn Map Report

Careaga Lease
APN 101-020-086
Santa Maria, CA 93455

Inquiry Number: 6865426.3
February 18, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/18/22

Site Name:	Client Name:
Careaga Lease APN 101-020-086 Santa Maria, CA 93455 EDR Inquiry # 6865426.3	Waterstone Environmental Inc 2936 E. Coronado Street Anaheim, CA 92806 Contact: Heather Fields

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Waterstone Environmental Inc were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # D359-4449-B19B

PO # NA

Project 22-104

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: D359-4449-B19B

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix G

Aerial Photographs

Solstra - Solomon Hills

1555 Orcutt Hill Road

Orcutt, CA 93455

Inquiry Number: 7594917.1

March 14, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Date EDR Searched Historical Sources:

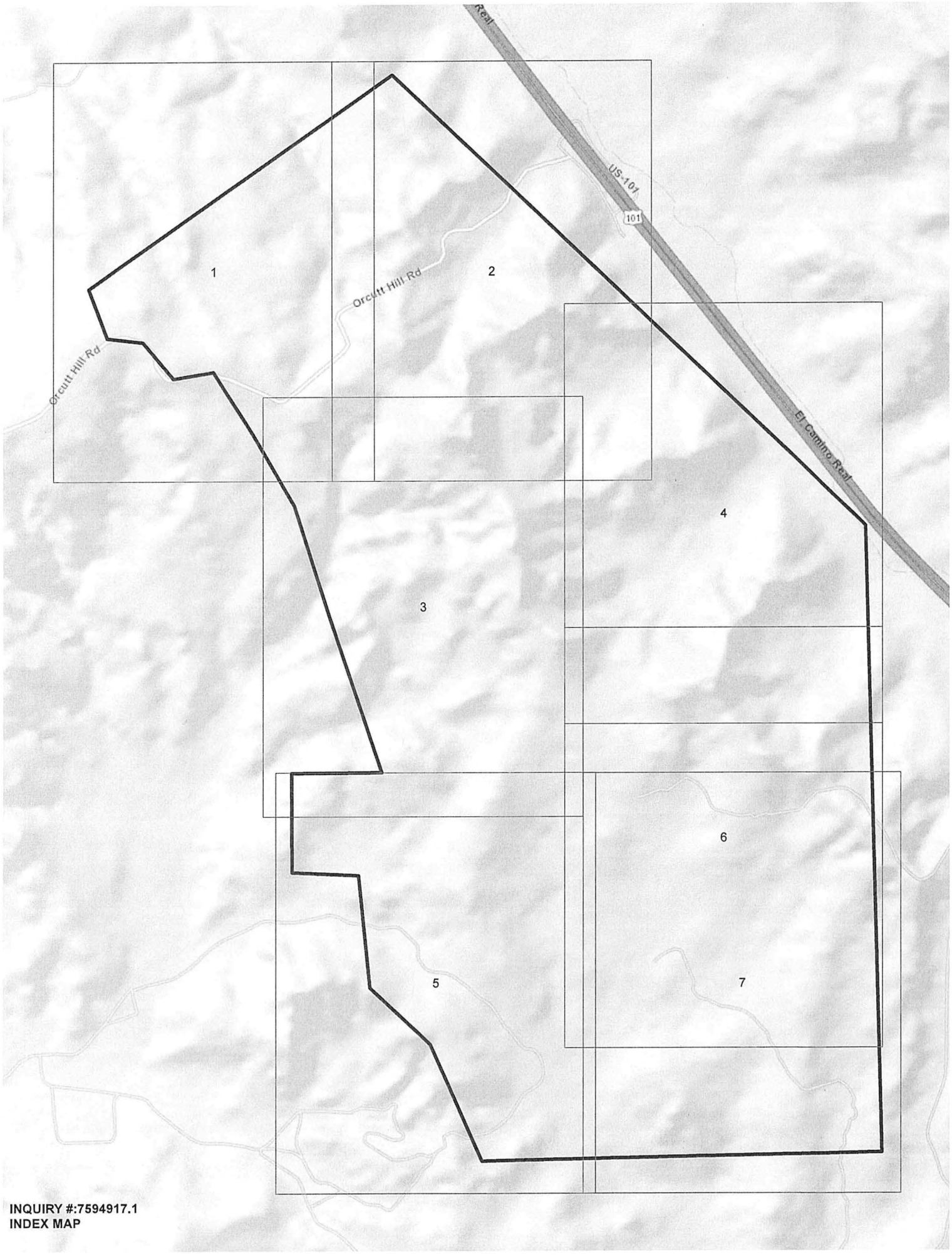
Aerial Photography March 14, 2024

Target Property:

1555 Orcutt Hill Road

Orcutt, CA 93455

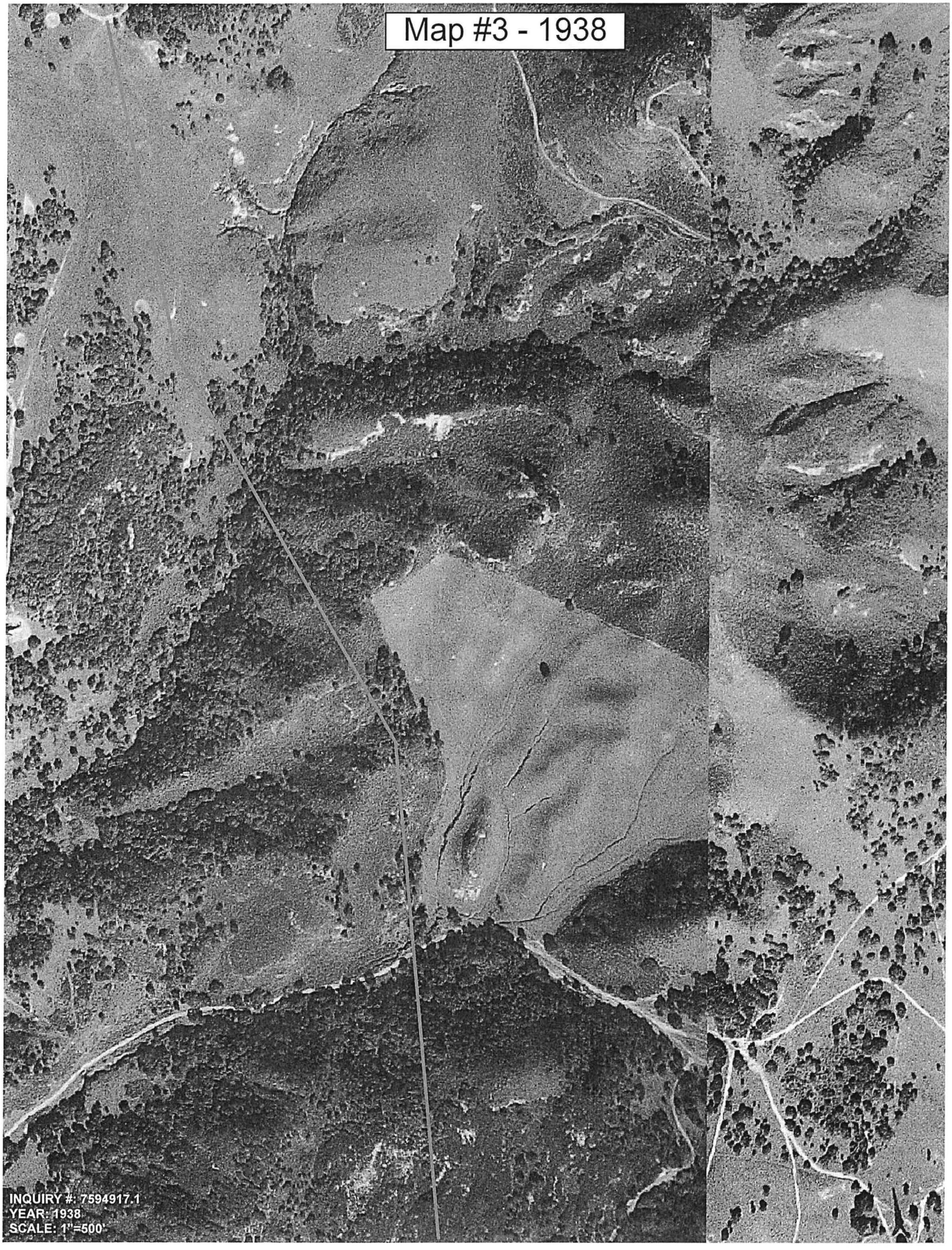
Year	*Scale*	*Details*	*Source*
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	Fairchild
1943	Aerial Photograph. Scale: 1"=500'	Flight Year: 1943	USDA
1954	Aerial Photograph. Scale: 1"=500'	Flight Year: 1954	USDA
1960	Aerial Photograph. Scale: 1"=500'	Flight Year: 1960	USAF
1967	Aerial Photograph. Scale: 1"=500'	Flight Year: 1967	USGS
1978	Aerial Photograph. Scale: 1"=500'	Flight Year: 1978	USGS
1981	Aerial Photograph. Scale: 1"=500'	Flight Year: 1981	USDA
1994	Aerial Photograph. Scale: 1"=500'	Flight Year: 1994	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2016	Aerial Photograph. Scale: 1"=500'	Flight Year: 2016	USDA/NAIP
2020	Aerial Photograph. Scale: 1"=500'	Flight Year: 2020	USDA/NAIP



INQUIRY #:7594917.1
INDEX MAP

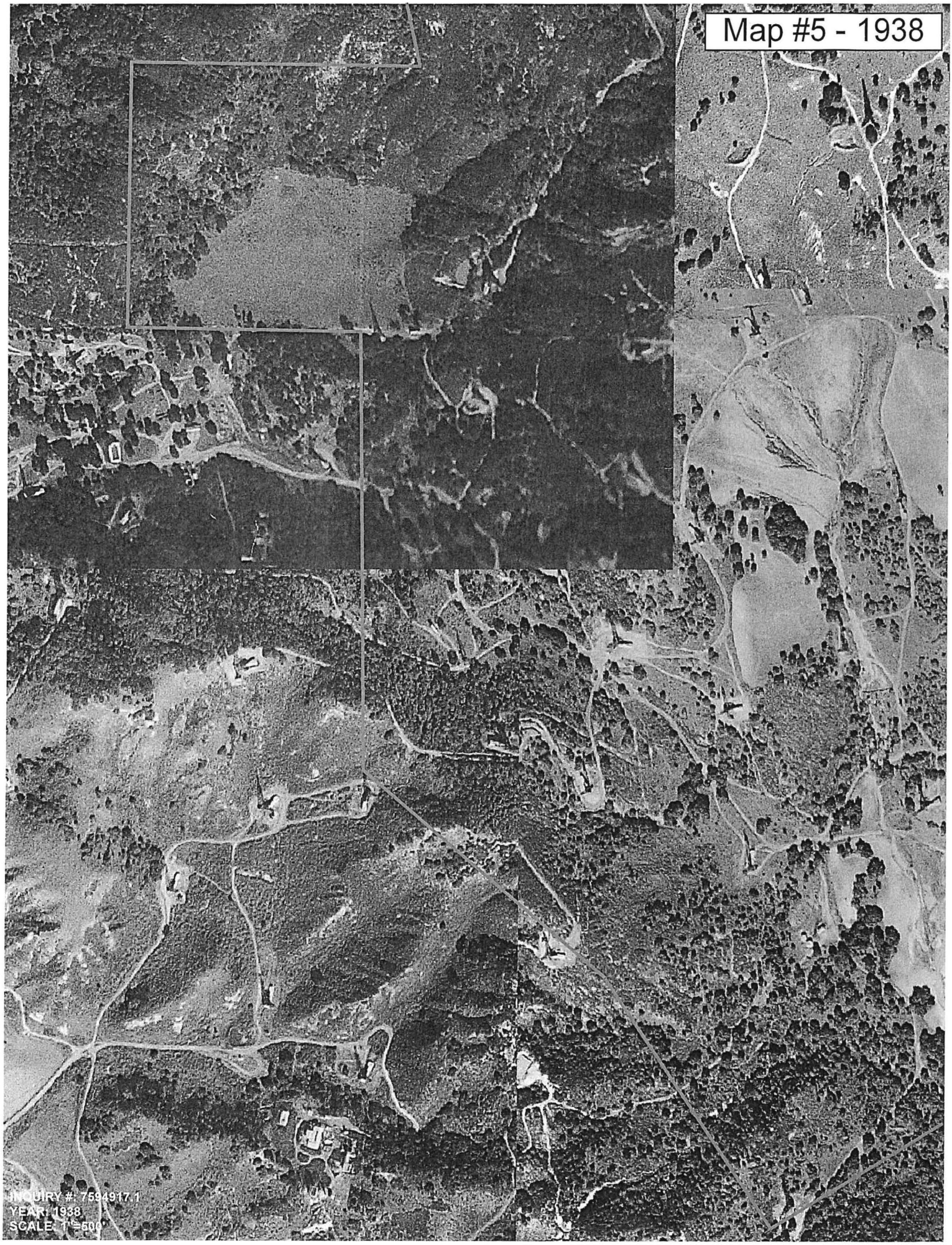

Map #1 - 1938
INQUIRY #: 7594917.1
YEAR: 1938
SCALE: 1" = 500'


Map #2 - 1938
INQUIRY #: 7594917.1
YEAR: 1938
SCALE: 1" =500'

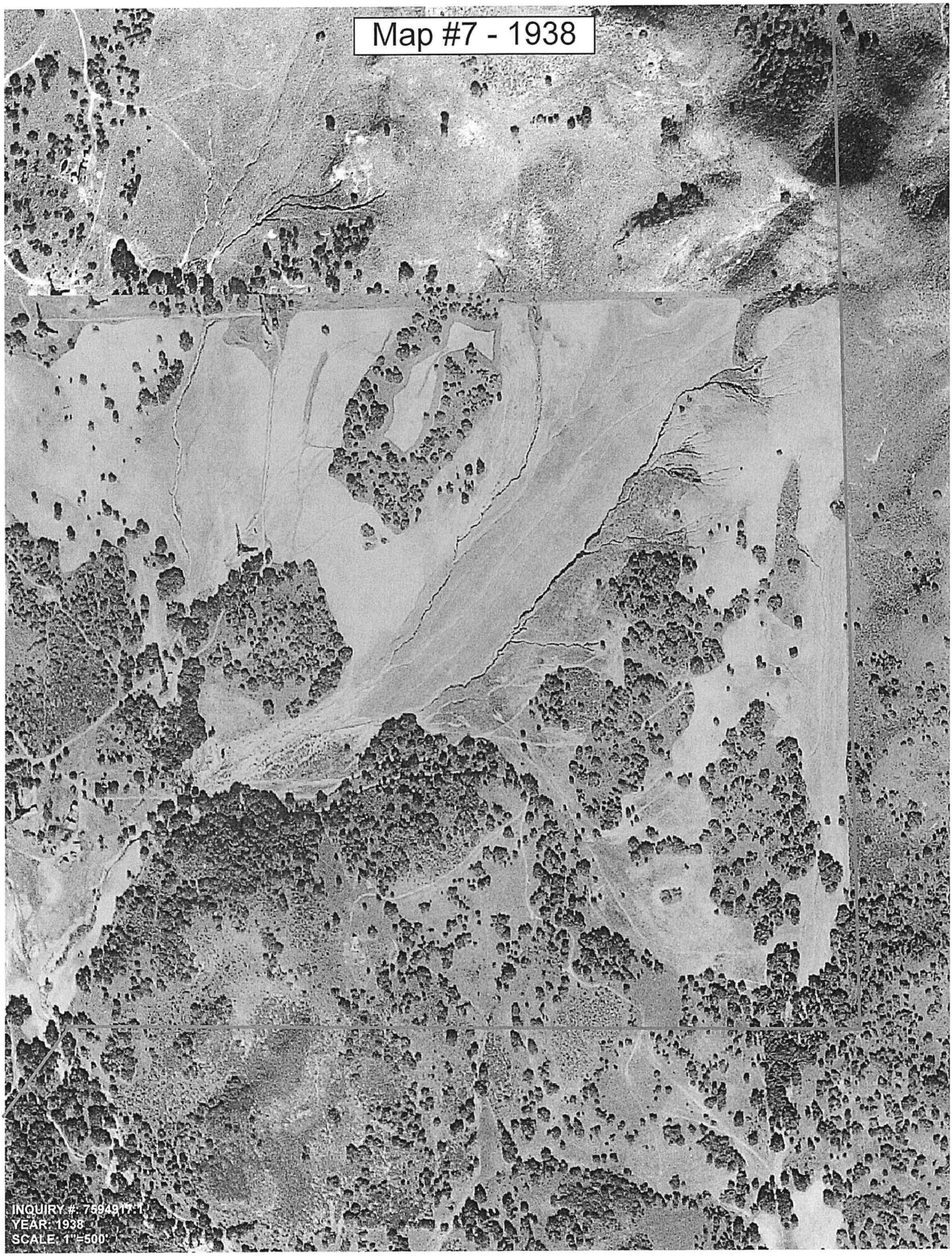

Map #3 - 1938
INQUIRY #: 7594917.1
YEAR: 1938
SCALE: 1"=500'

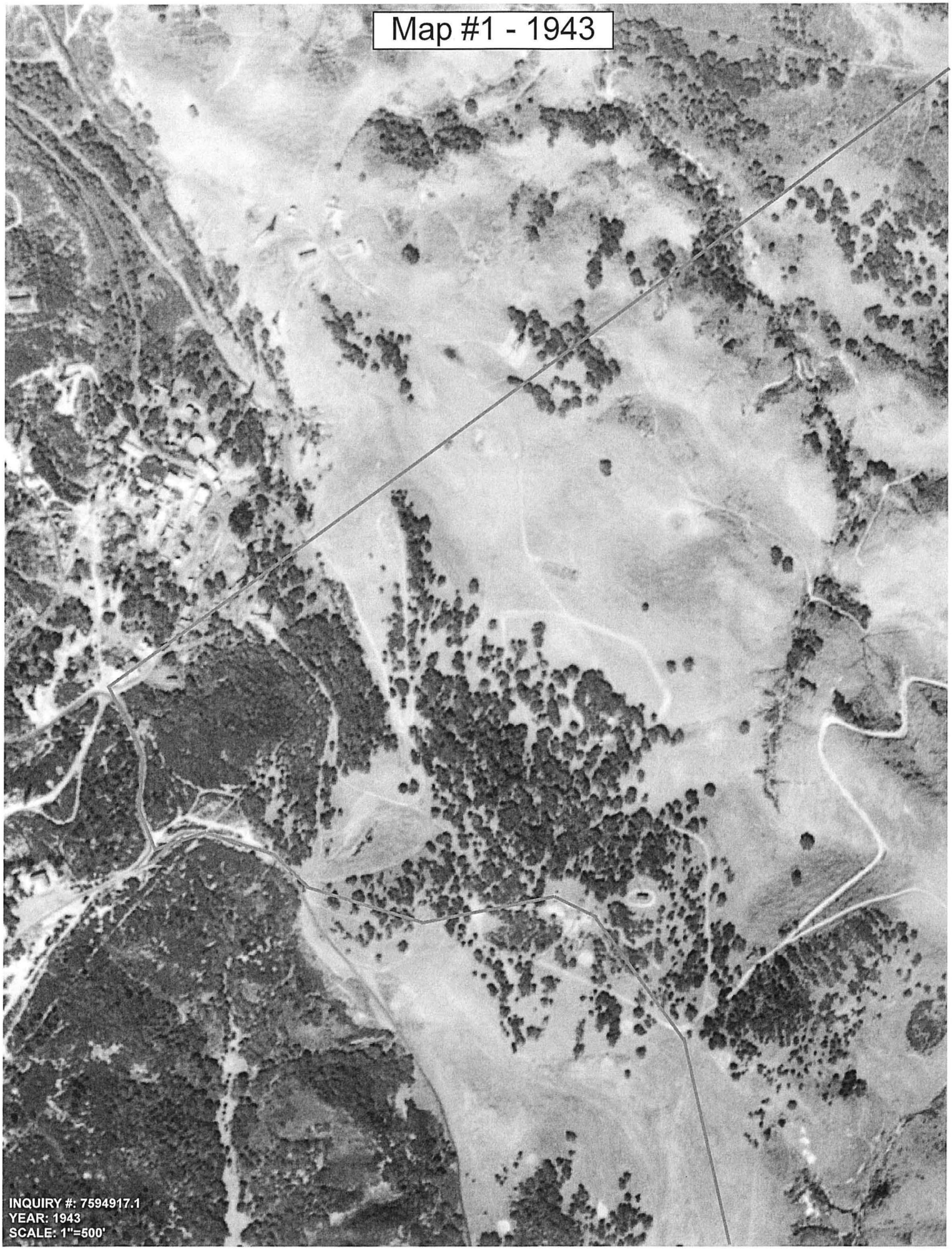
Map #4 - 1938




Map #5 - 1938
INQUIRY #: 7594917.1
YEAR: 1938
SCALE: 1" = 500'


Map #6 - 1938
INQUIRY #: 7594917.1
YEAR: 1938
SCALE: 1"=500'


Map #7 - 1938
INQUIRY #: 7594917.1
YEAR: 1938
SCALE: 1"=500'


Map #1 - 1943
INQUIRY #: 7594917.1
YEAR: 1943
SCALE: 1"=500'


Map #2 - 1943
INQUIRY #: 7594917.1
YEAR: 1943
SCALE: 1"=500'


Map #3 - 1943
INQUIRY #: 7594917.1
YEAR: 1943
SCALE: 1"=500'


Map #4 - 1943
INQUIRY #: 7594917.1
YEAR: 1943
SCALE: 1" =500'


Map #5 - 1943

Map #6 - 1943



Property boundary not shown because it exceeds image extent.

INQUIRY #: 7594917.1
YEAR: 1943
SCALE: 1"=500'


Map #7 - 1943
INQUIRY #: 7594917.1
YEAR: 1943
SCALE: 1" = 600'

Map #1 - 1954




Map #2 - 1954
INQUIRY #: 75
YEAR: 1954
SCALE: 1"=500'

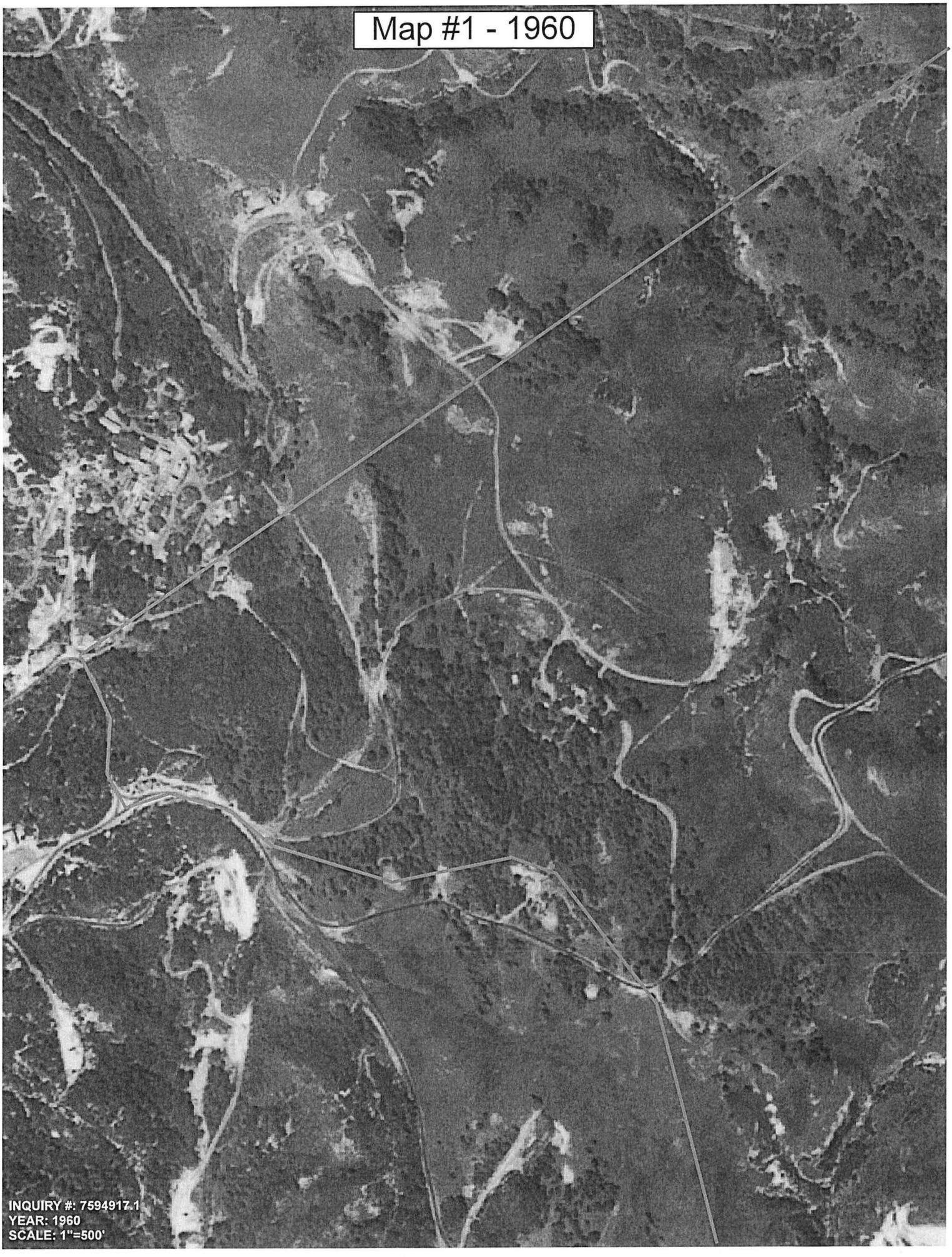

Map #3 - 1954


Map #4 - 1954
INQUIRY #: 7594917.1
YEAR: 1954
SCALE: 1"=500'


Map #5 - 1954
INQUIRY #: 75849171
YEAR: 1954
SCALE: 1"=500'


Map #6 - 1954
INQUIRY # 7594512.1
YEAR 1954
SCALE 1"=500


Map #7 - 1954
INQUIRY #: 7594917.1
YEAR: 1954
SCALE: 1"=500'


Map #1 - 1960
INQUIRY #: 7594917.1
YEAR: 1960
SCALE: 1"=500'


Map #2 - 1960
INQUIRY #: 7594917.1
YEAR: 1960
SCALE:


Map #3 - 1960
INQUIRY #: 7594917.1
YEAR: 1960
SCALE: 1"=500'


Map #4 - 1960
INQUIRY #: 7594917.1
YEAR: 1960
SCALE: 1"=500'

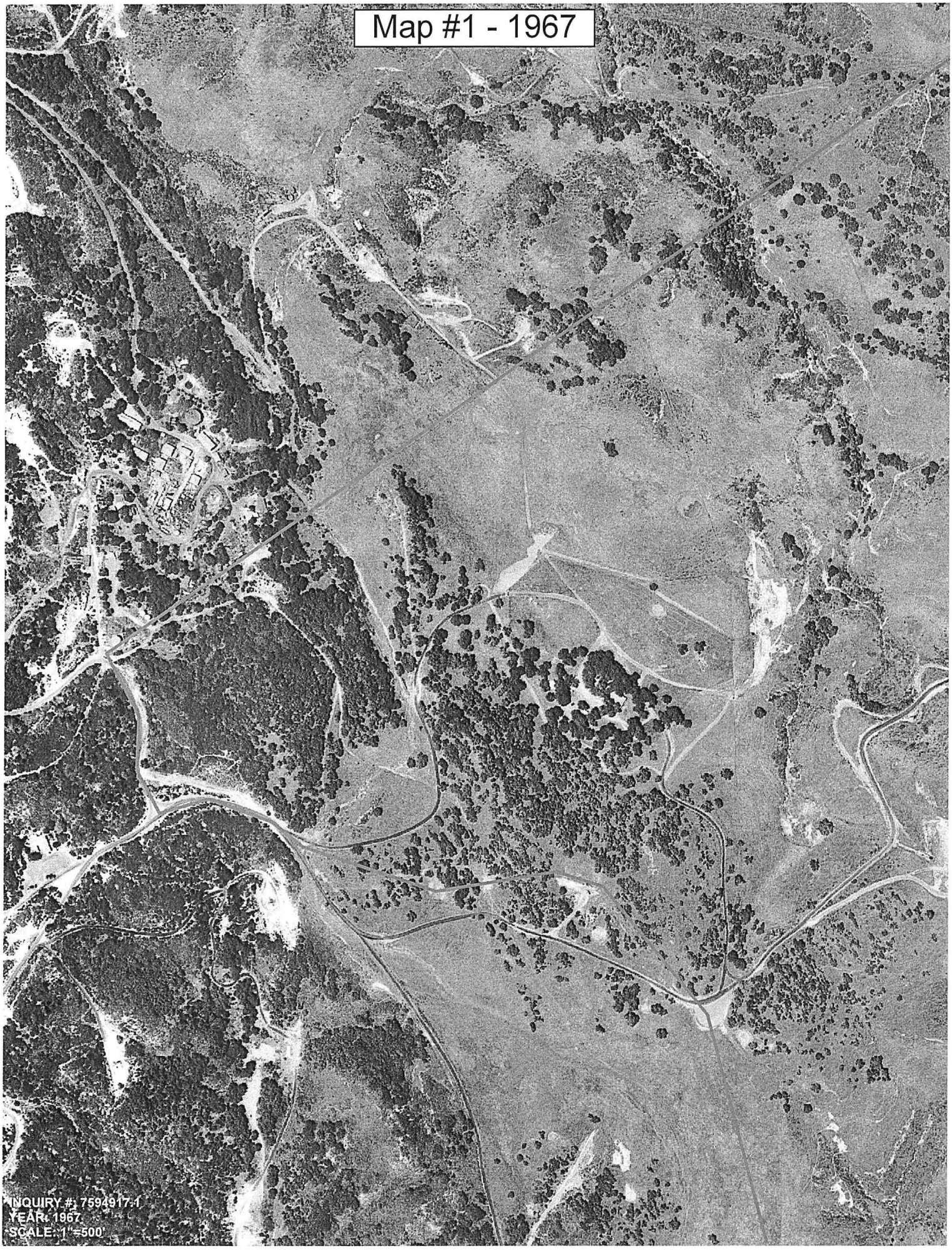

Map #5 - 1960
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YEAR: 1960
SCALE: 1"=500'

Map #6 - 1960



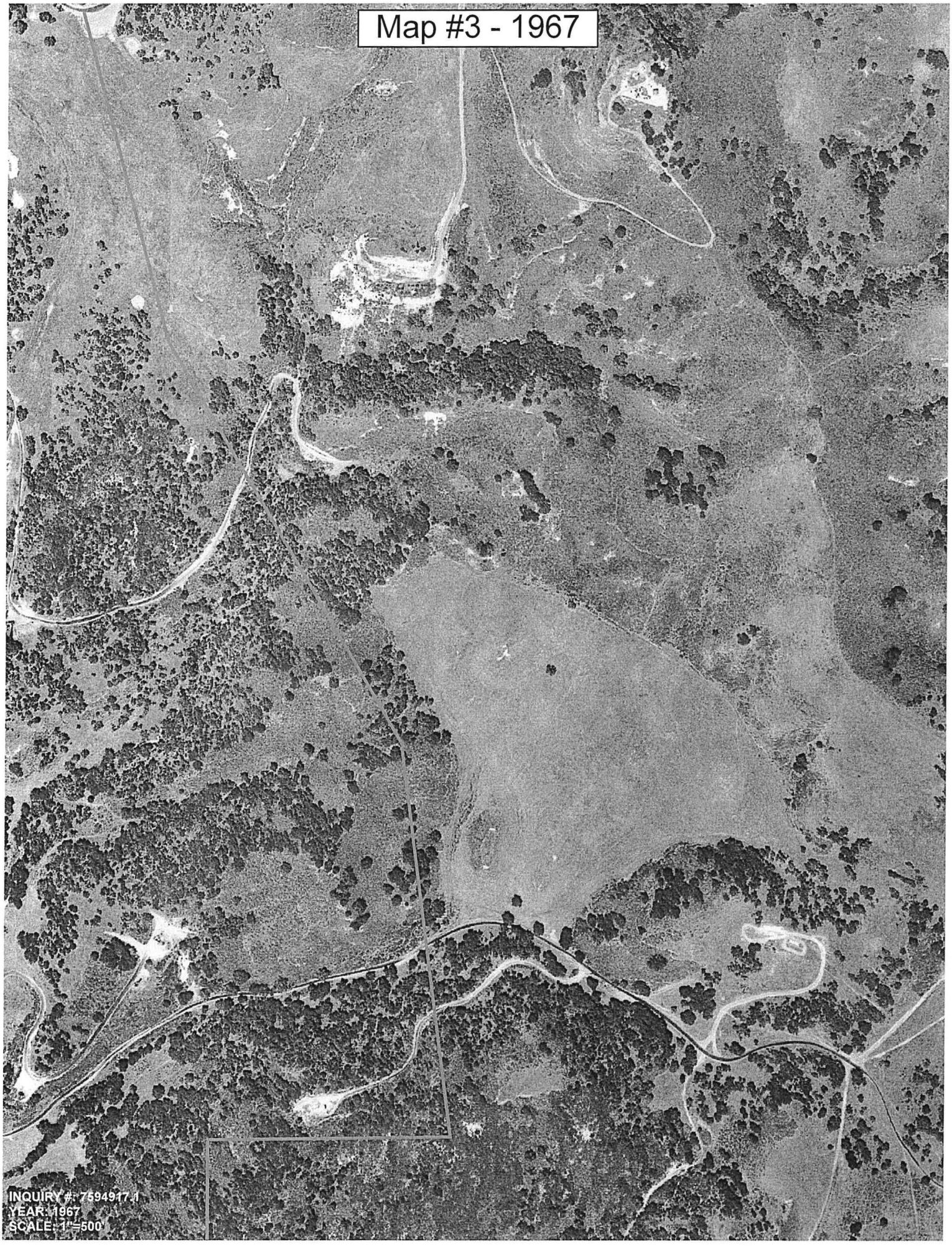

Map #7 - 1960
INQUIRY #: 7594917.1
YEAR: 1960
SCALE: 1"=500'

Map #1 - 1967

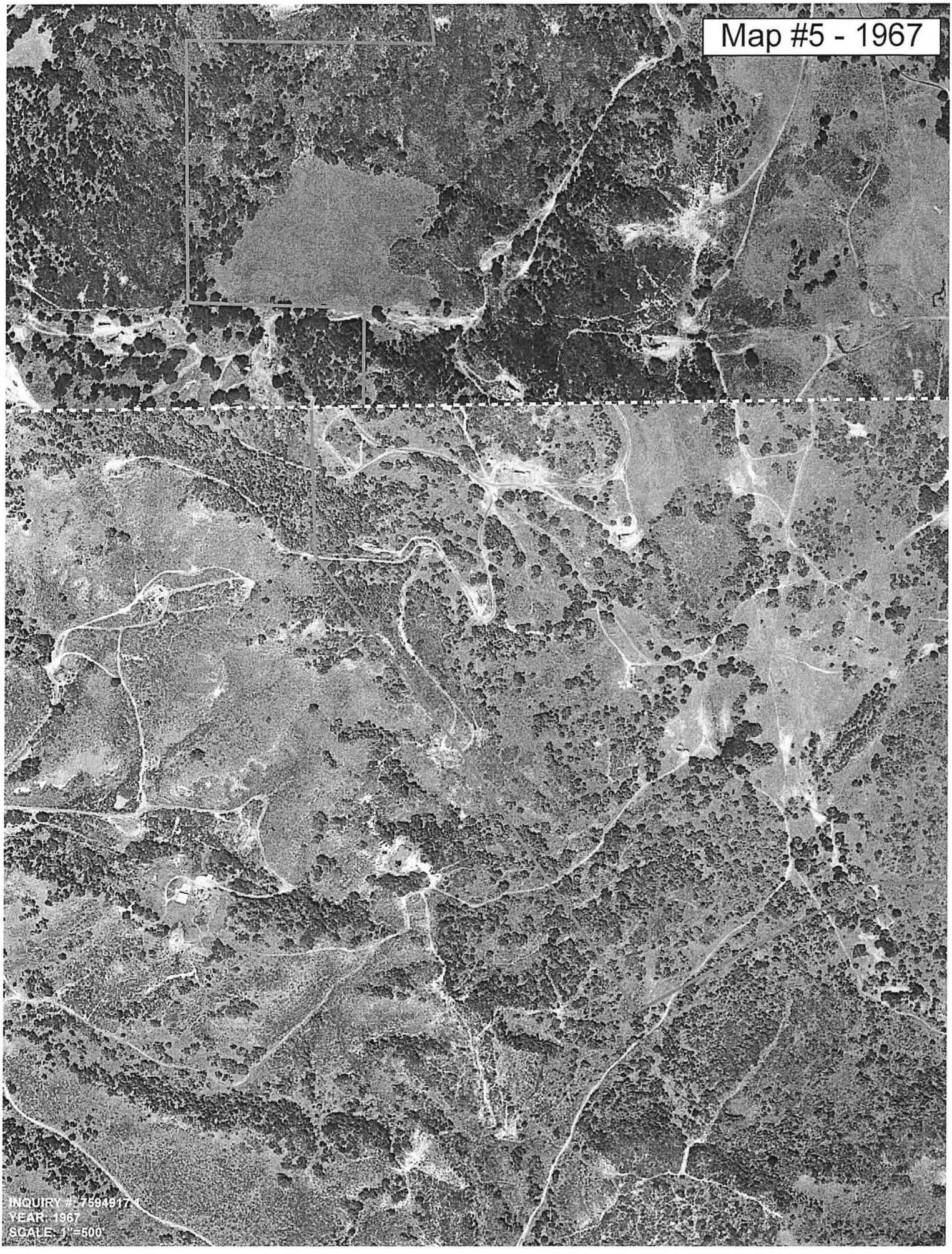



Map #2 - 1967
INQUIRY #: 7594917.1
YEAR: 1967
SCALE: 1"=500'

Map #3 - 1967

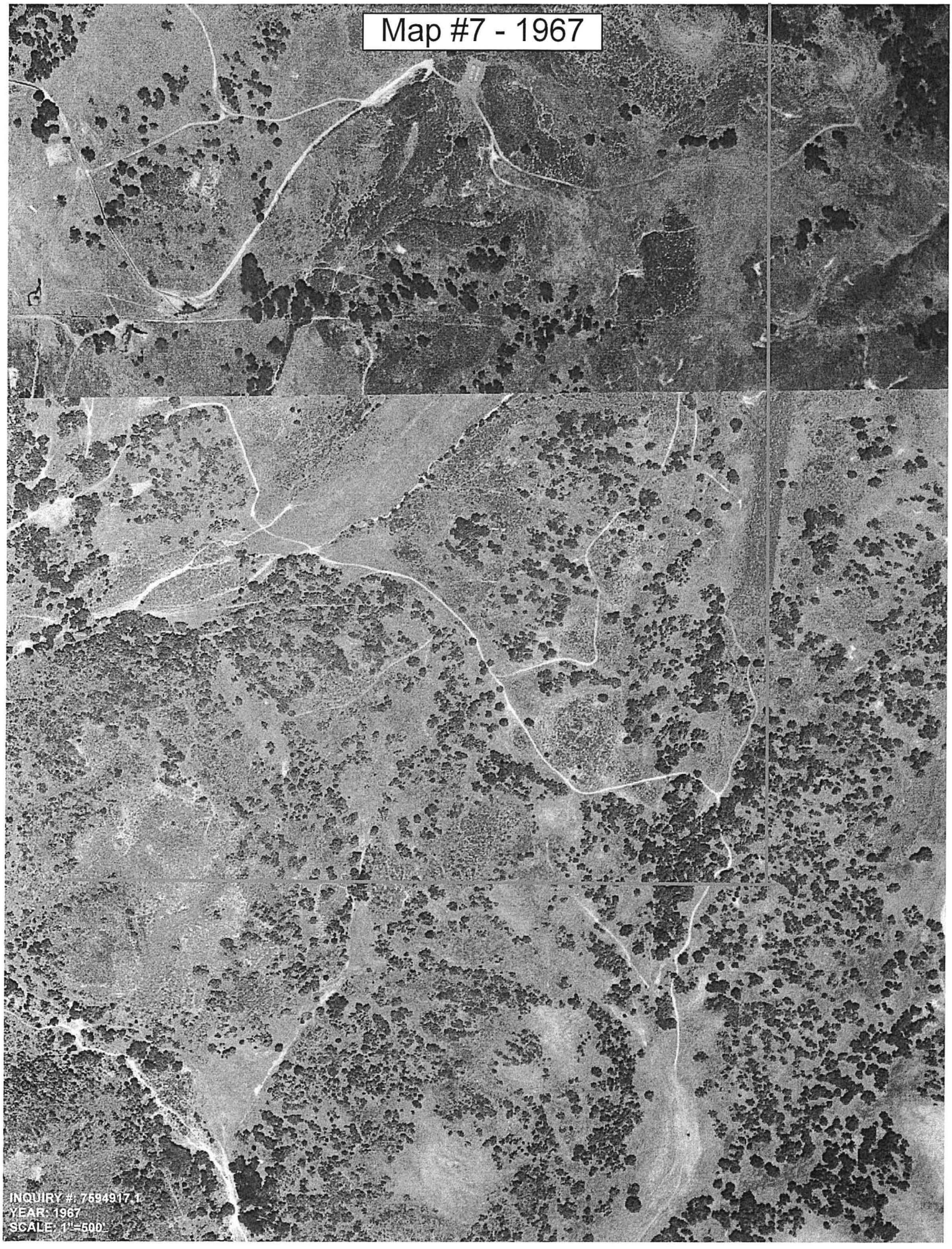



Map #4 - 1967
INQUIRY #: 7594017.1
YEAR: 1967
SCALE: 1"=500'


Map #5 - 1967
INQUIRY #: 7594917.4
YEAR: 1967
SCALE: 1"=500'


Map #6 - 1967
INQUIRY #: 7594917.1
YEAR: 1967
SCALE: 1" =500'

Map #7 - 1967

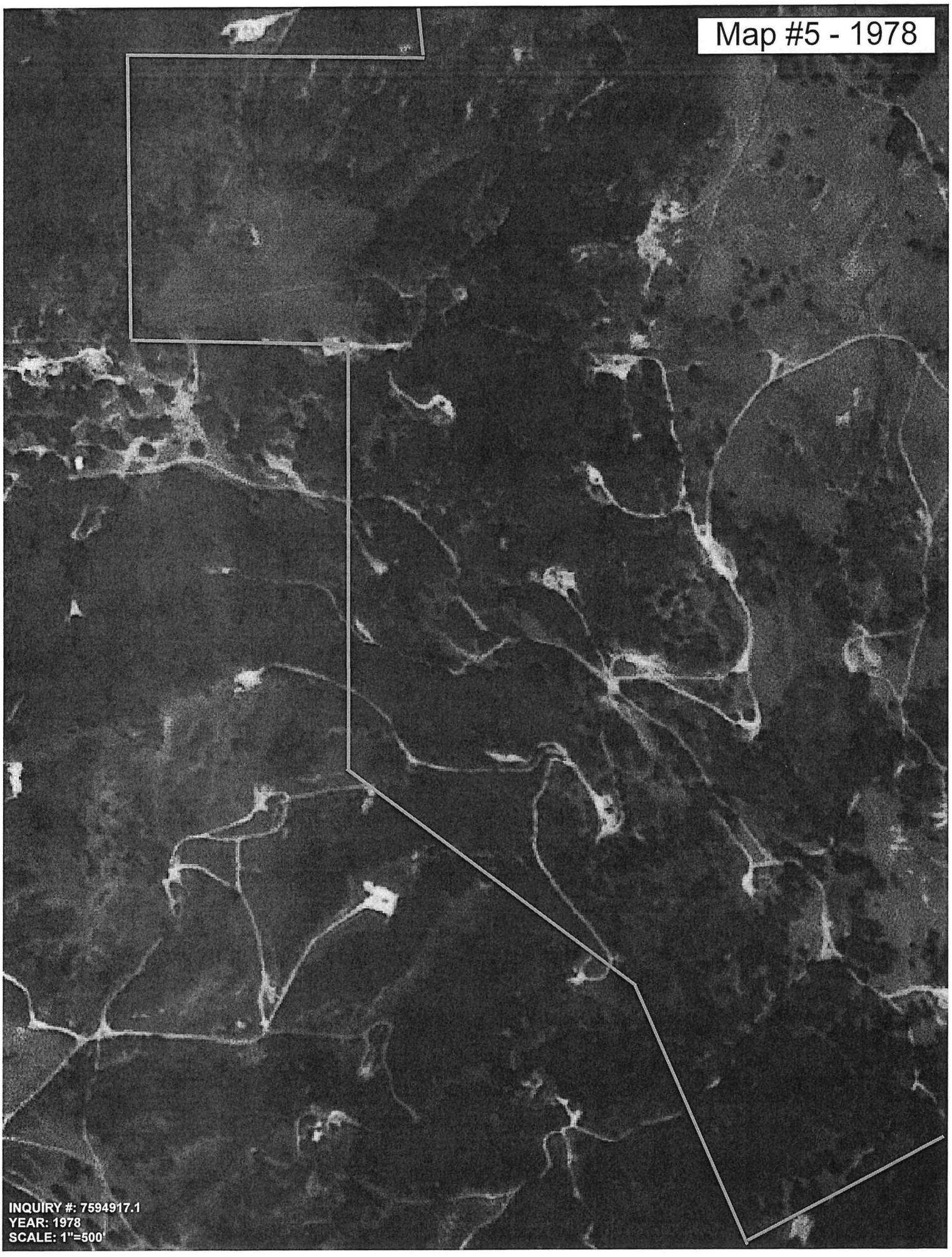



Map #1 - 1978
INQUIRY #: 7594917.1
YEAR: 1978
SCALE: 1"=500'


Map #2 - 1978
INQUIRY #: 7594917.1
YEAR: 1978
SCALE: 1"=500'


Map #3 - 1978
INQUIRY #: 7594917.1
YEAR: 1978
SCALE: 1"=500'


Map #4 - 1978
INQUIRY #: 7594917.1
YEAR: 1978
SCALE: 1"=500'


Map #5 - 1978
INQUIRY #: 7594917.1
YEAR: 1978
SCALE: 1"=500'

Map #6 - 1978

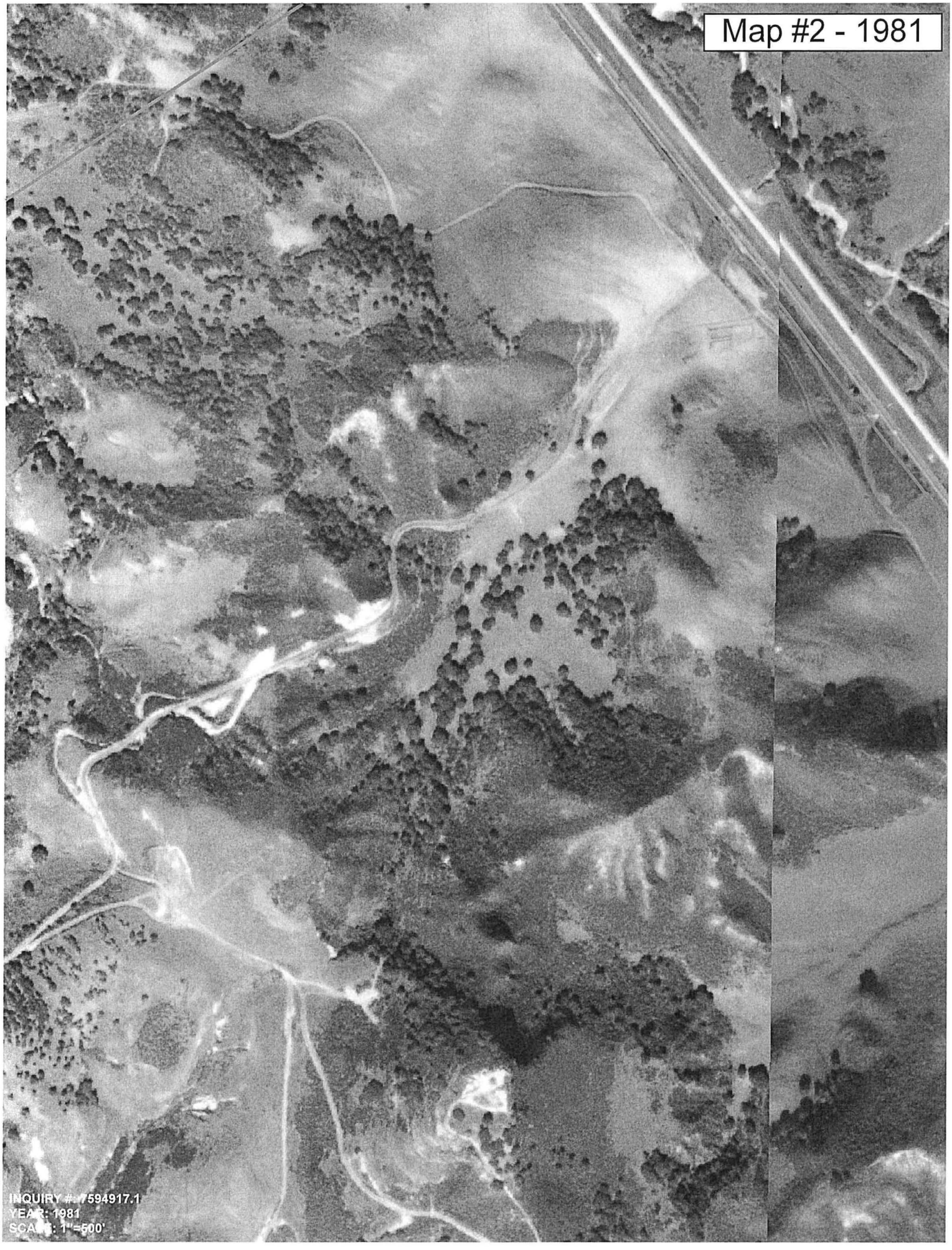


Map #7 - 1978

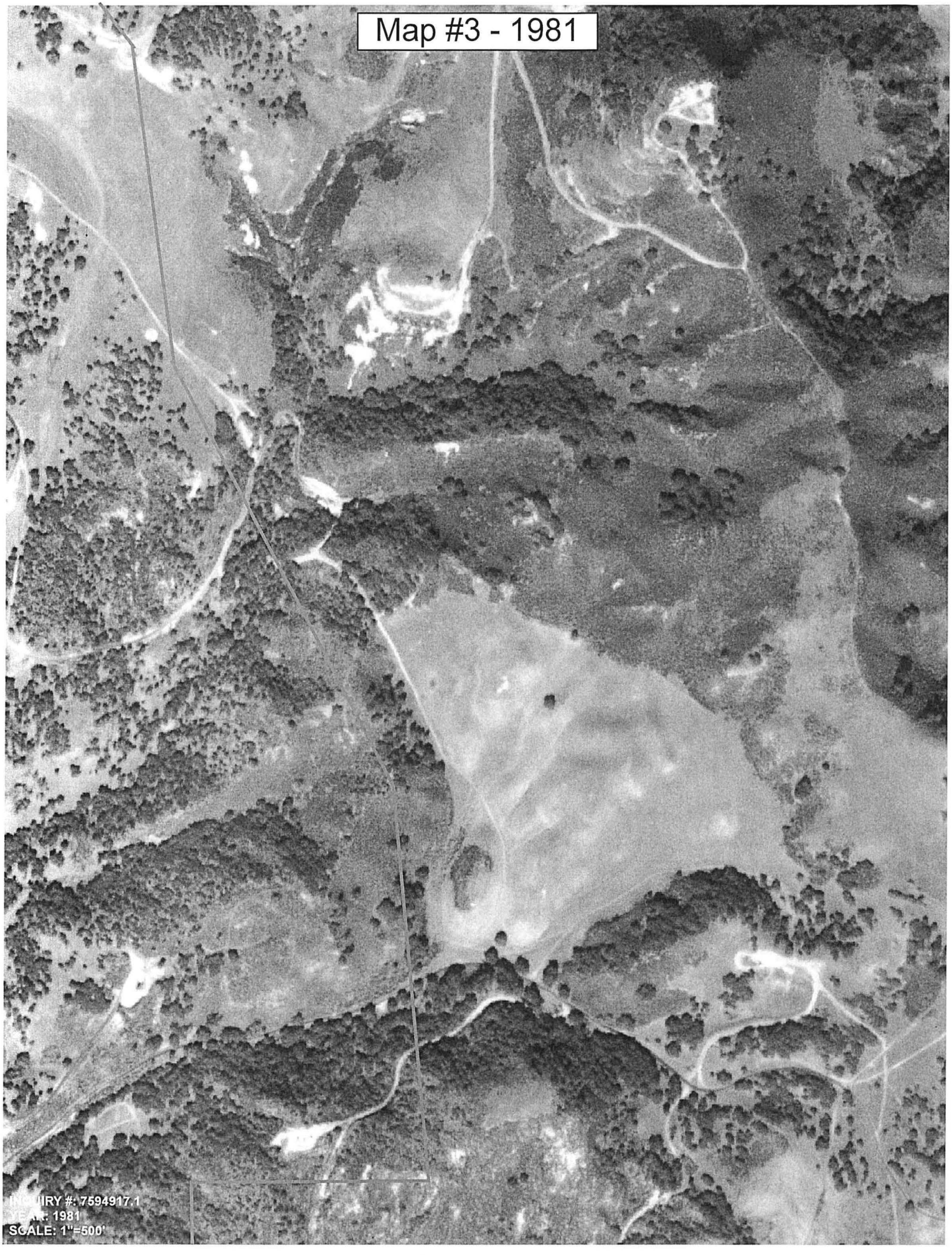


INQUIRY #: 7594917.1
YEAR: 1978
SCALE: 1"=500'


Map #1 - 1981
INQUIRY #: 7594917.1
YEAR: 1981
SCALE: 1"=500'


Map #2 - 1981
INQUIRY #: 7594917.1
YEAR: 1981
SCALE: 1"=500'

Map #3 - 1981

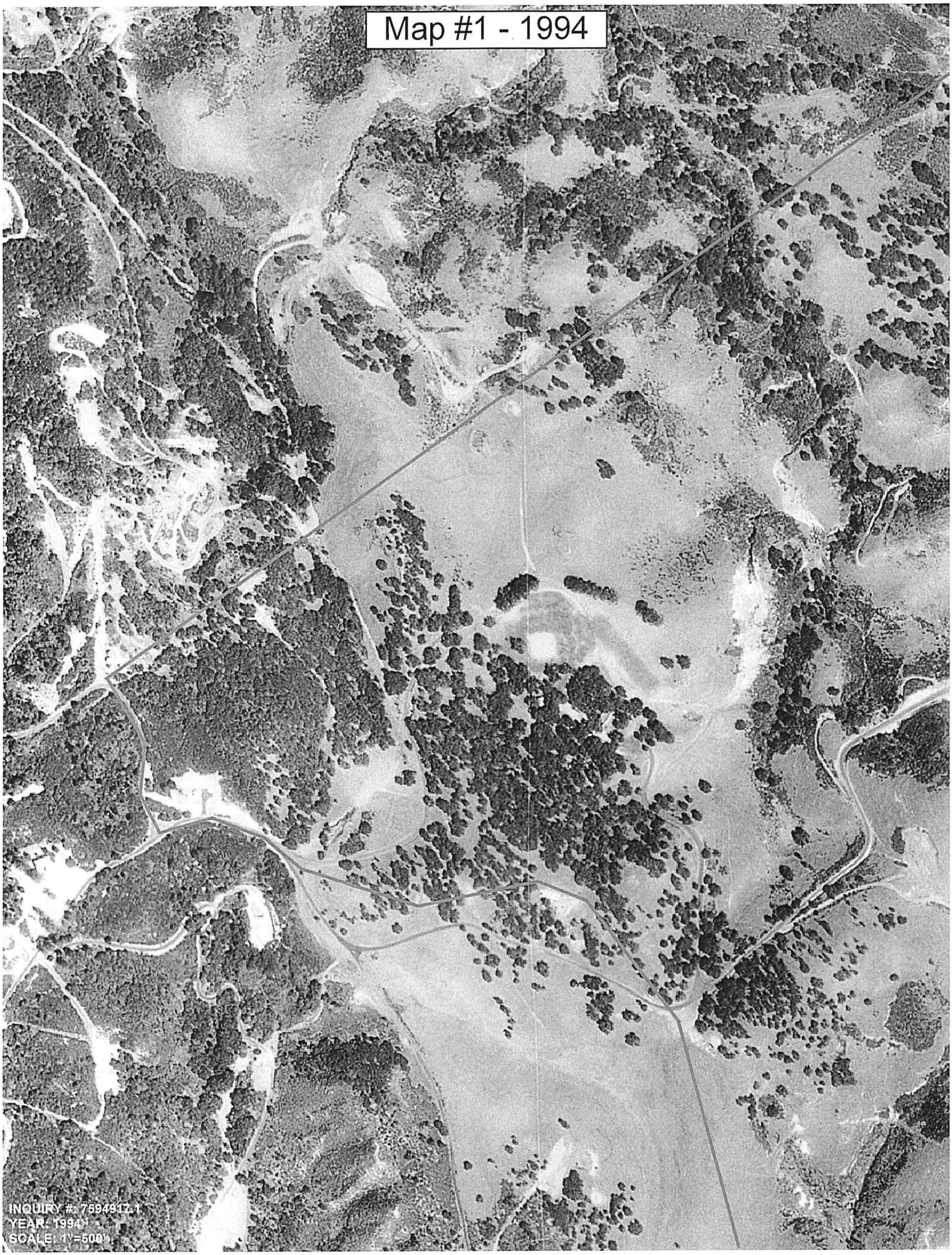



Map #4 - 1981
INQUIRY #: 7594917.1
YEAR: 1981
SCALE: 1"=500'


Map #5 - 1981
INQUIRY #: 7599
YEAR: 1981
SCALE: 1"=500'


Map #6 - 1981
INQUIRY #: 7594917.1
YEAR: 1981
SCALE: 1"=500'

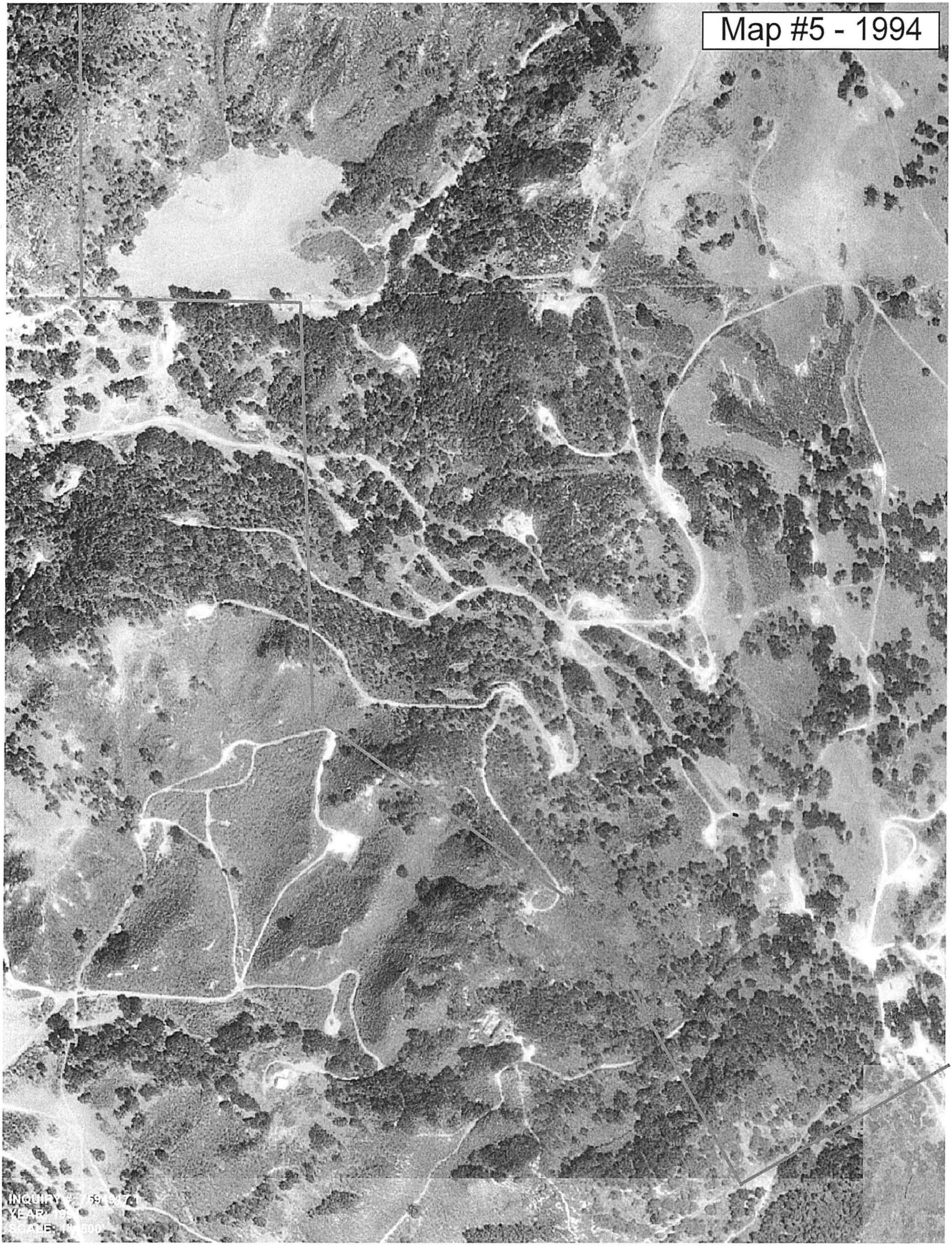

Map #7 - 1981
INQUIRY #: 7594917.1
YEAR: 1981
SCALE: 1"=500'


Map #1 - 1994
INQUIRY #: 7594917.1
YEAR: 1994
SCALE: 1"=500'


Map #2 - 1994
INQUIRY #: 7594917.1
YEAR: 1994
SCALE: 1"=500'

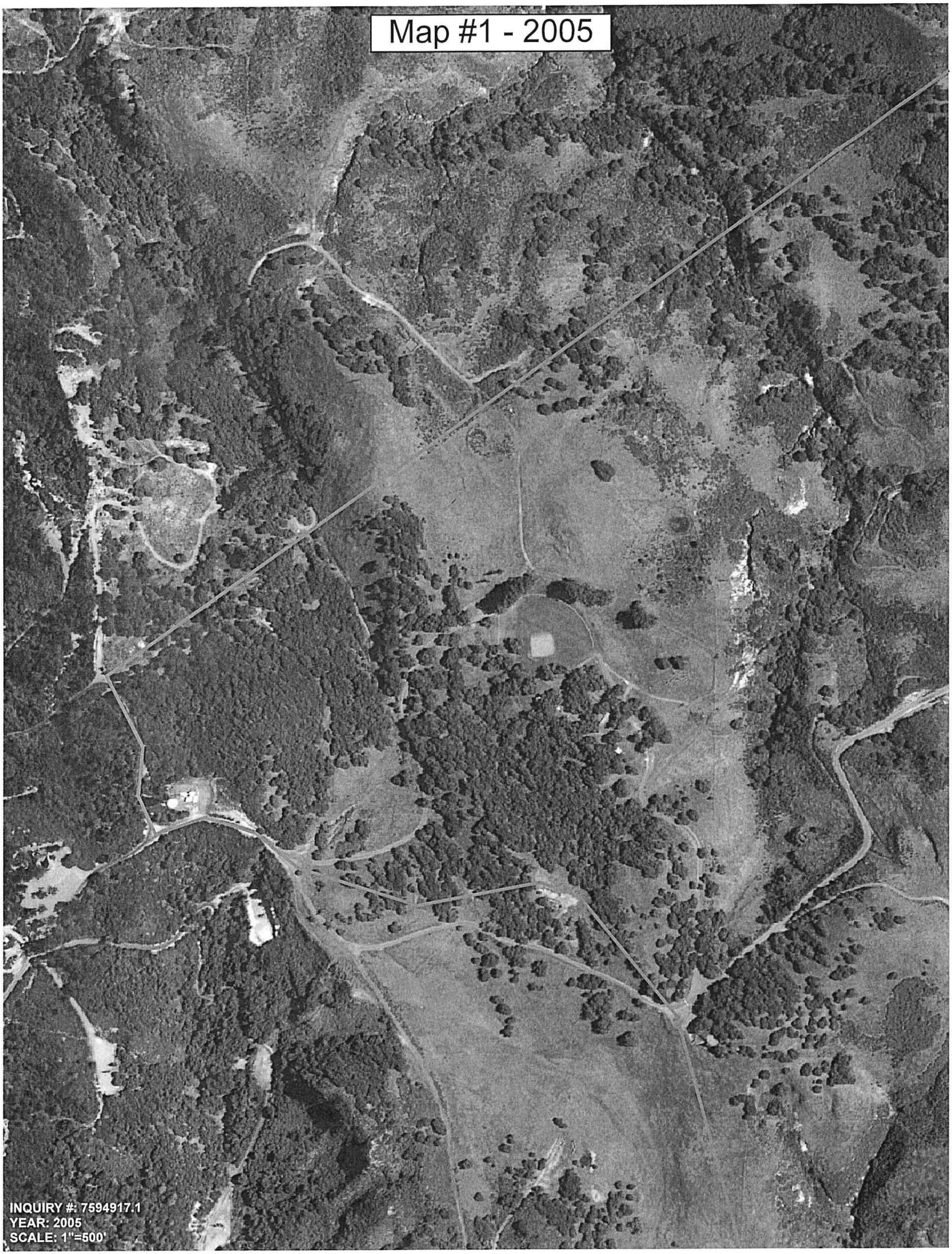

Map #3 - 1994
INQUIRY #: 7594917.1
YEAR: 1994
SCALE: 1" =500'


Map #4 - 1994
INQUIRY #: 7594917.1
YEAR: 1994
SCALE: 1"=500'


Map #5 - 1994


Map #6 - 1994
INQUIRY #: 7594017.
YEAR: 1994

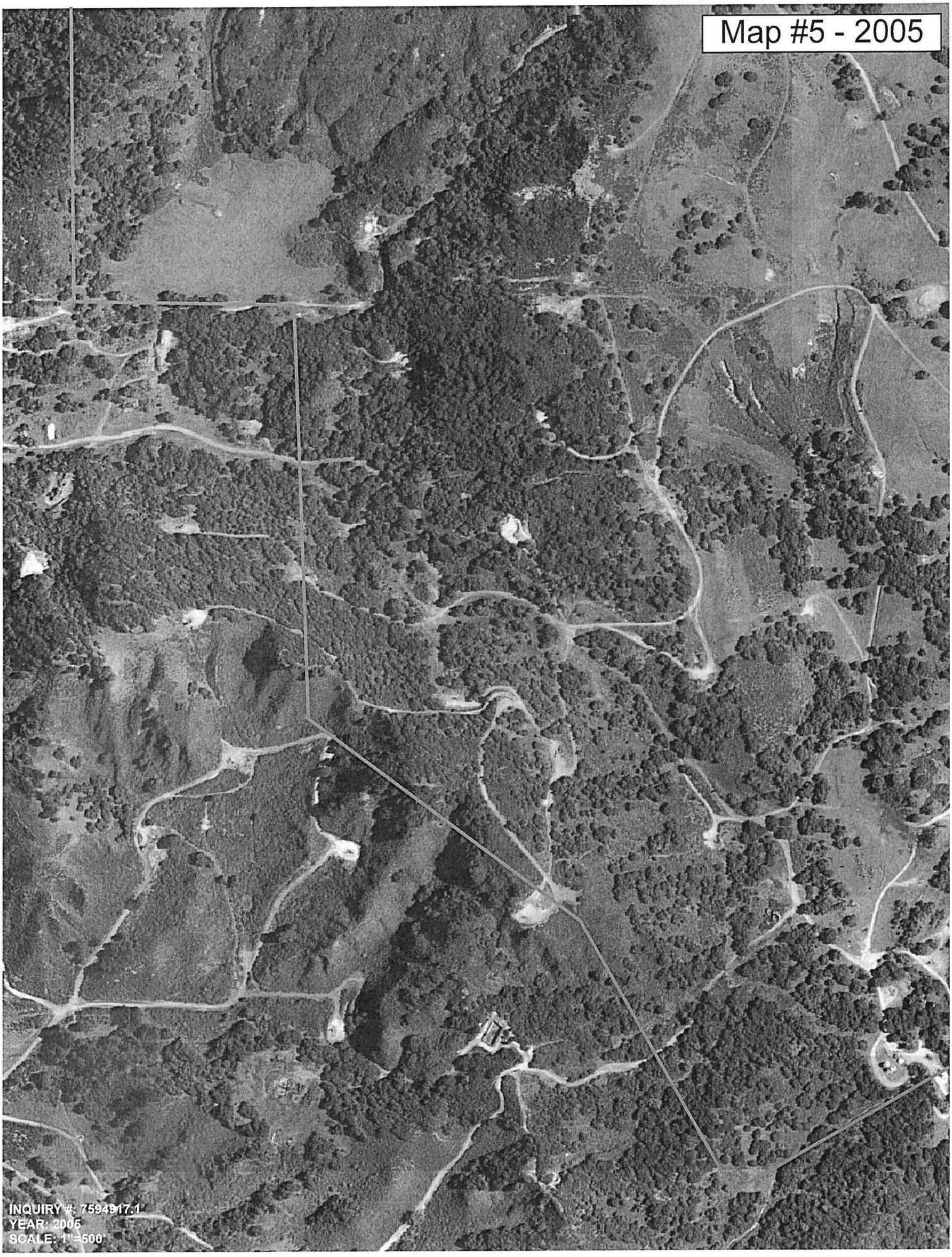

Map #7 - 1994
INQUIRY #: 7
YEAR: 1994
SCALE: 1"=500'


Map #1 - 2005
INQUIRY #: 7594917.1
YEAR: 2005
SCALE: 1"=500'


Map #2 - 2005
INQUIRY #: 7594917.1
YEAR: 2005
SCALE: 1"=500'

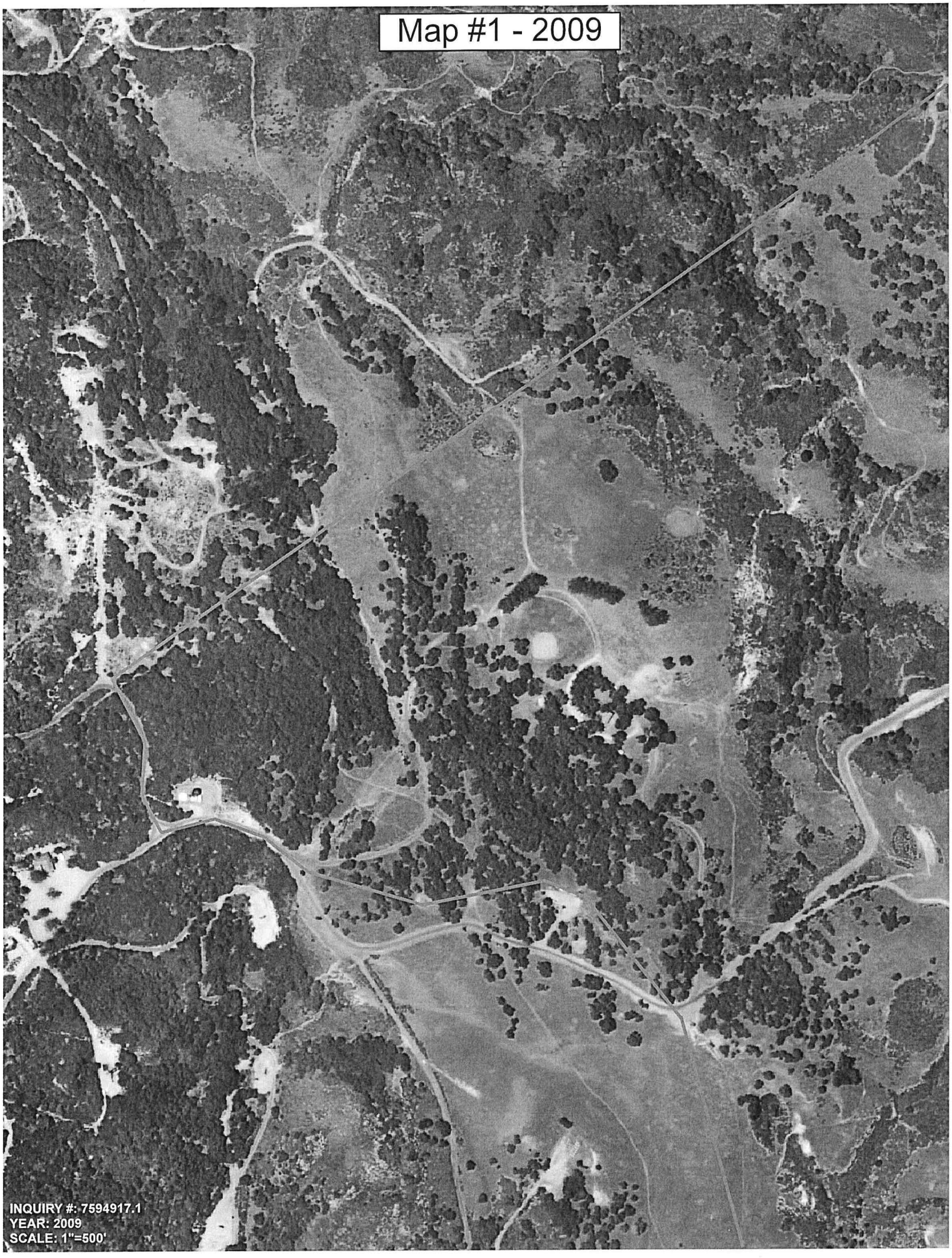

Map #3 - 2005
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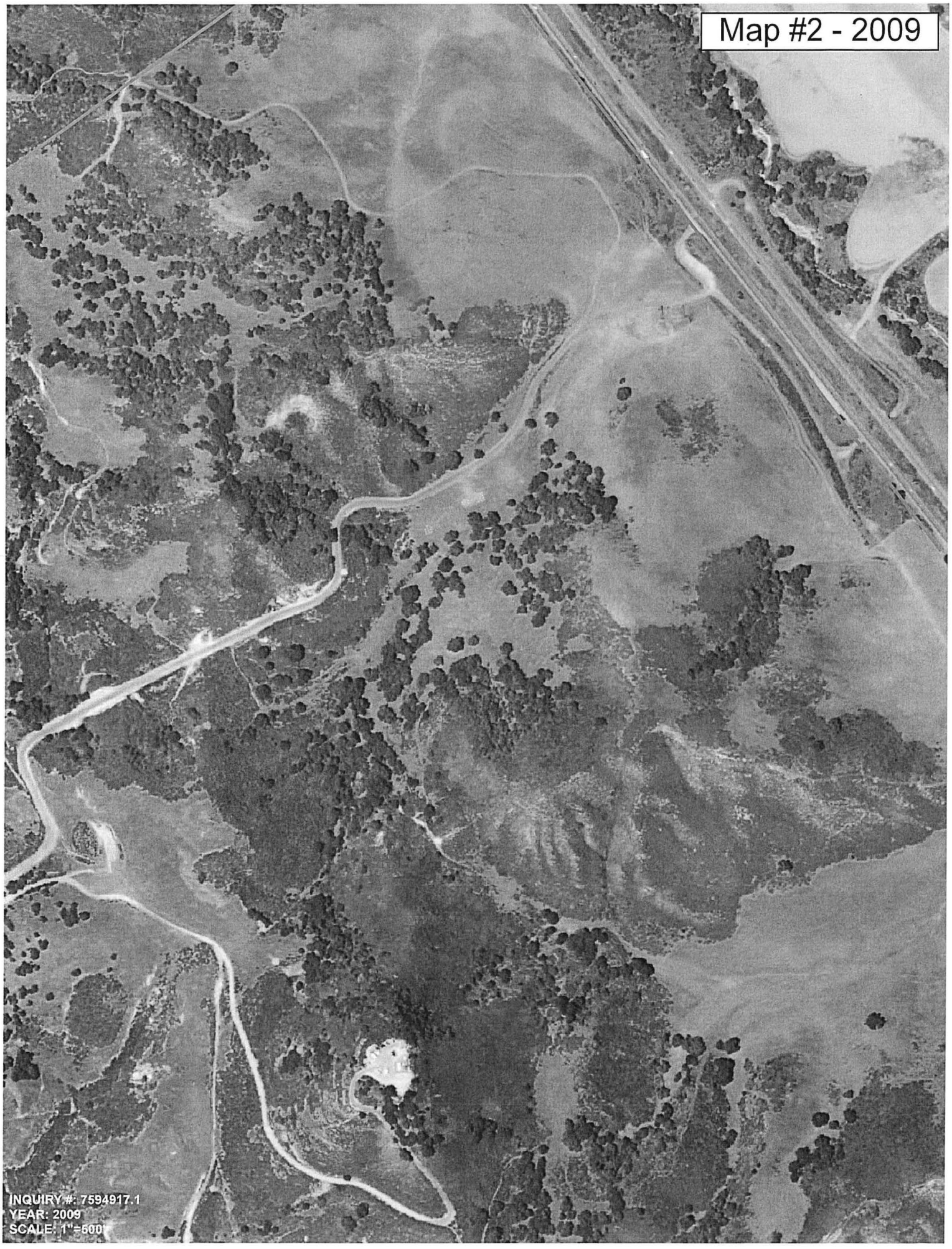

Map #4 - 2005
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YEAR: 2005
SCALE: 1"=500'

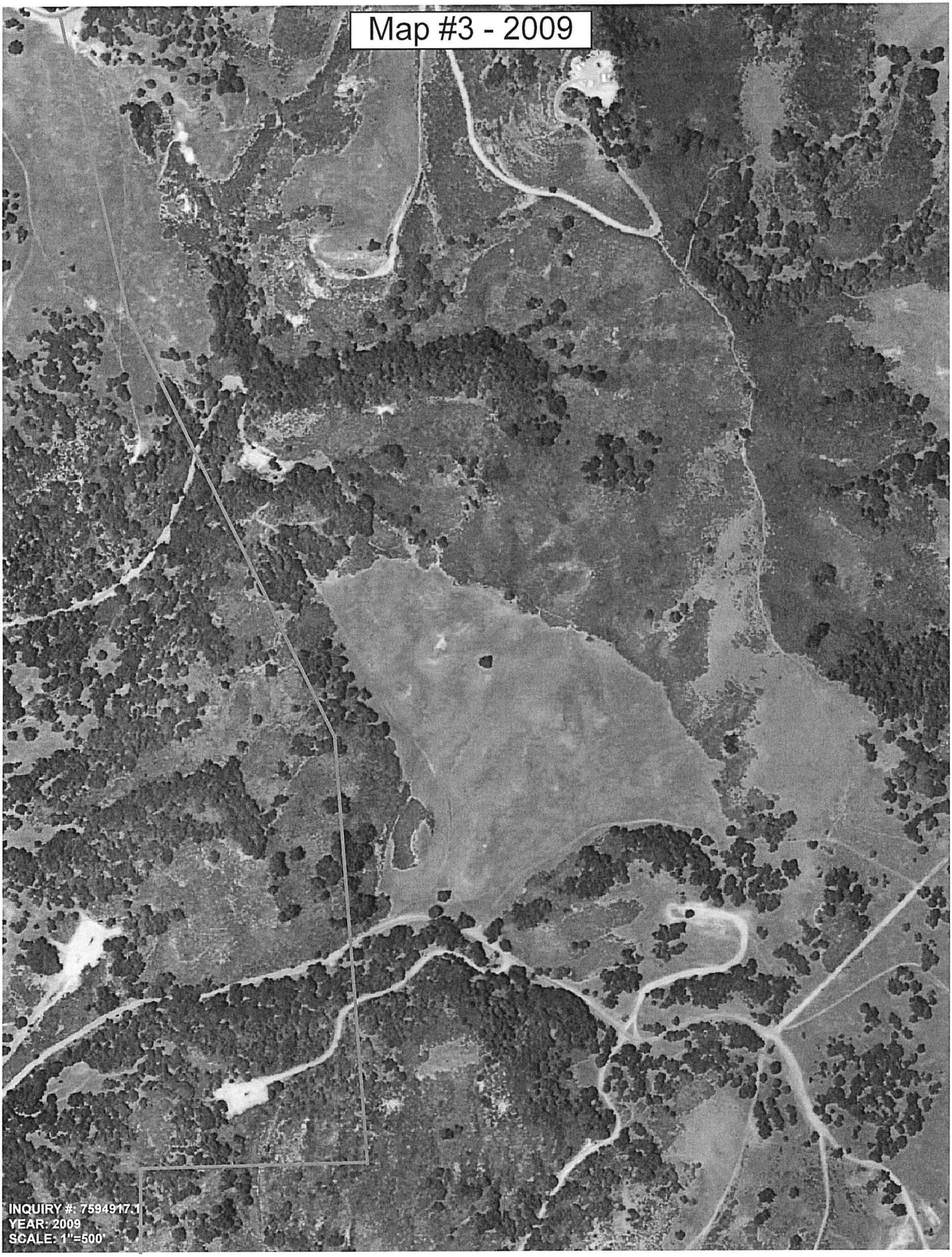

Map #5 - 2005
INQUIRY #: 7594917.1
YEAR: 2005
SCALE: 1"=500'


Map #6 - 2005
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YEAR: 2005
SCALE: 1"=500'

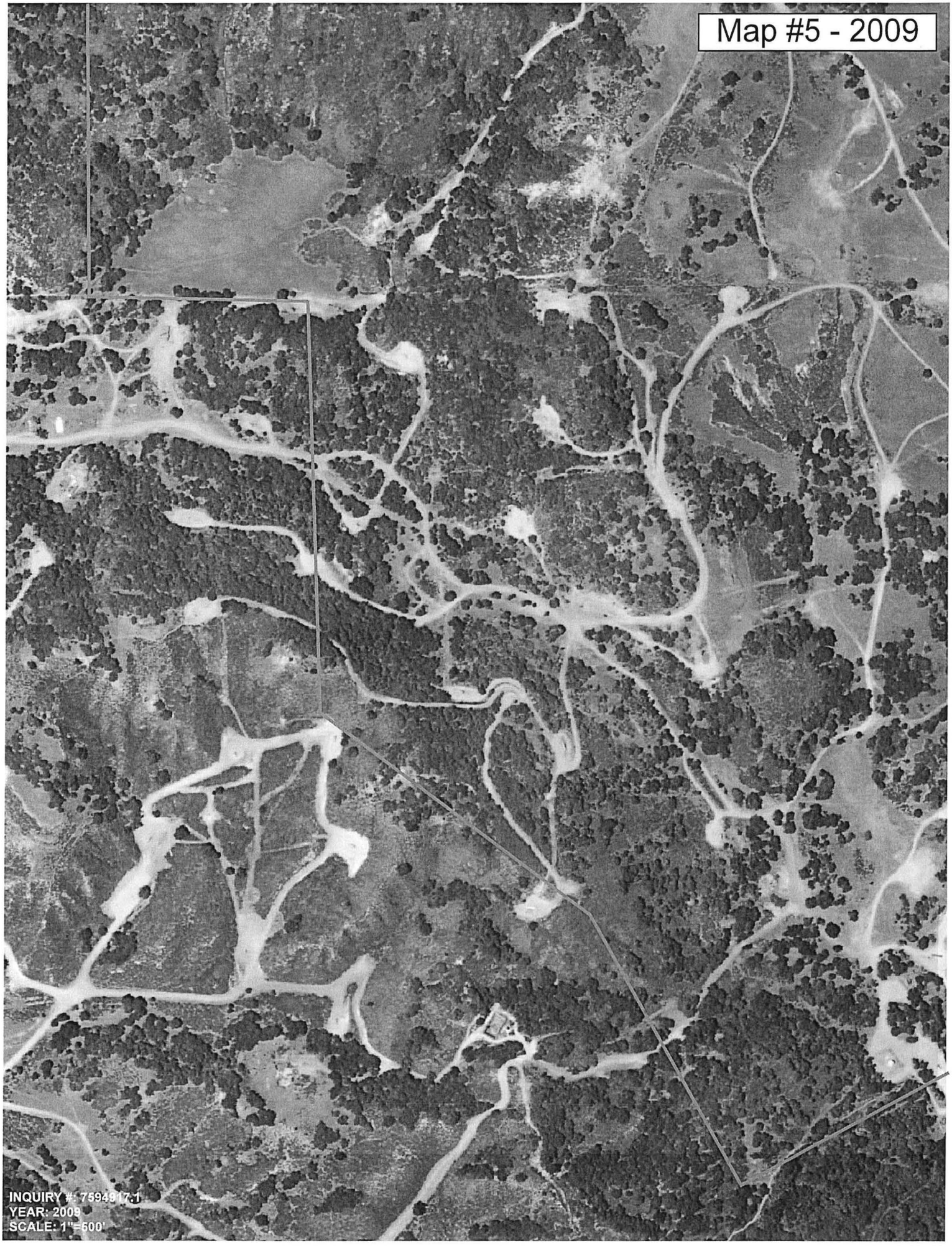

Map #7 - 2005
INQUIRY #: 7594917.1
YEAR: 2005
SCALE: 1"=500'


Map #1 - 2009
INQUIRY #: 7594917.1
YEAR: 2009
SCALE: 1"=500'

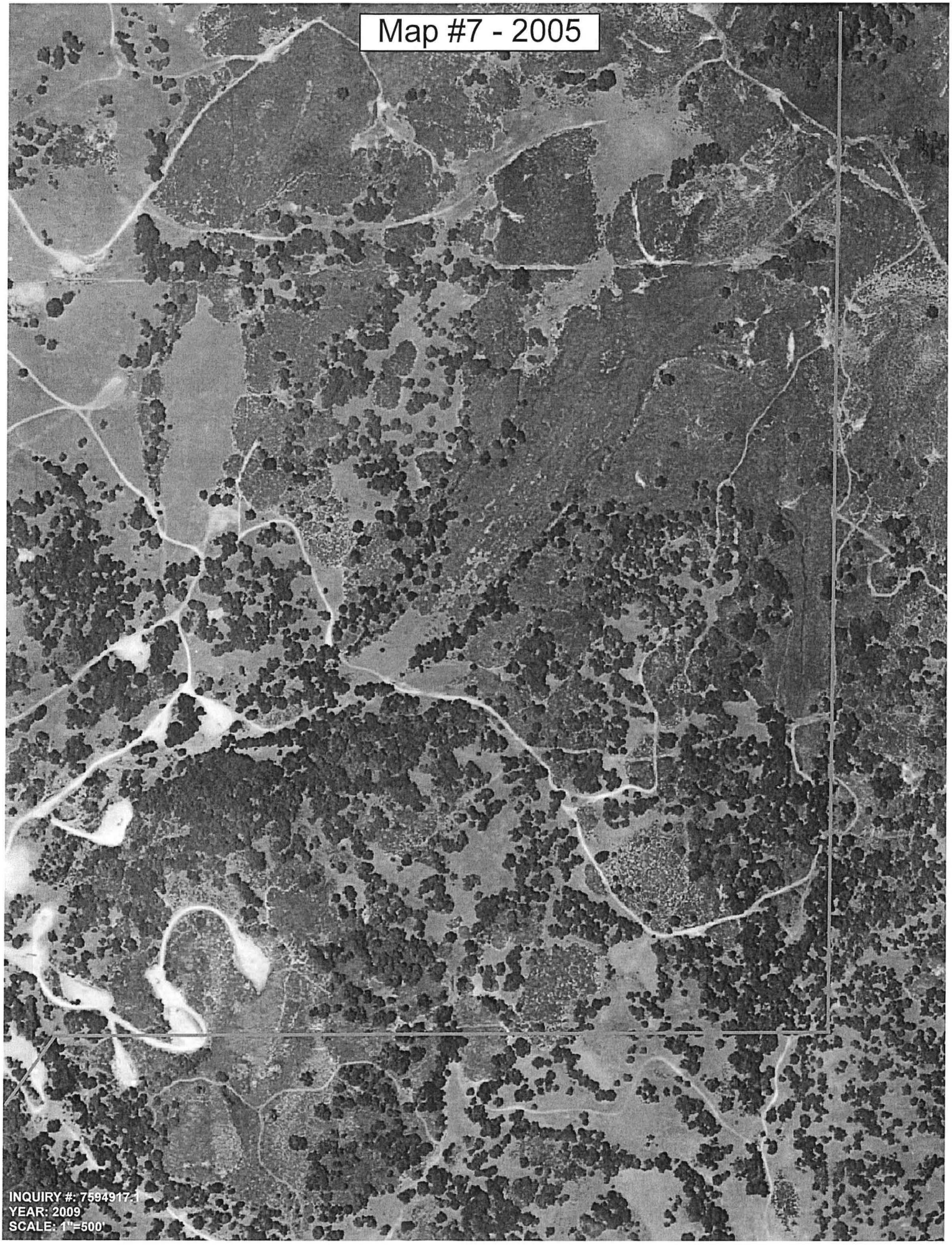

Map #2 - 2009
INQUIRY #: 7594917.1
YEAR: 2009
SCALE: 1"=500'

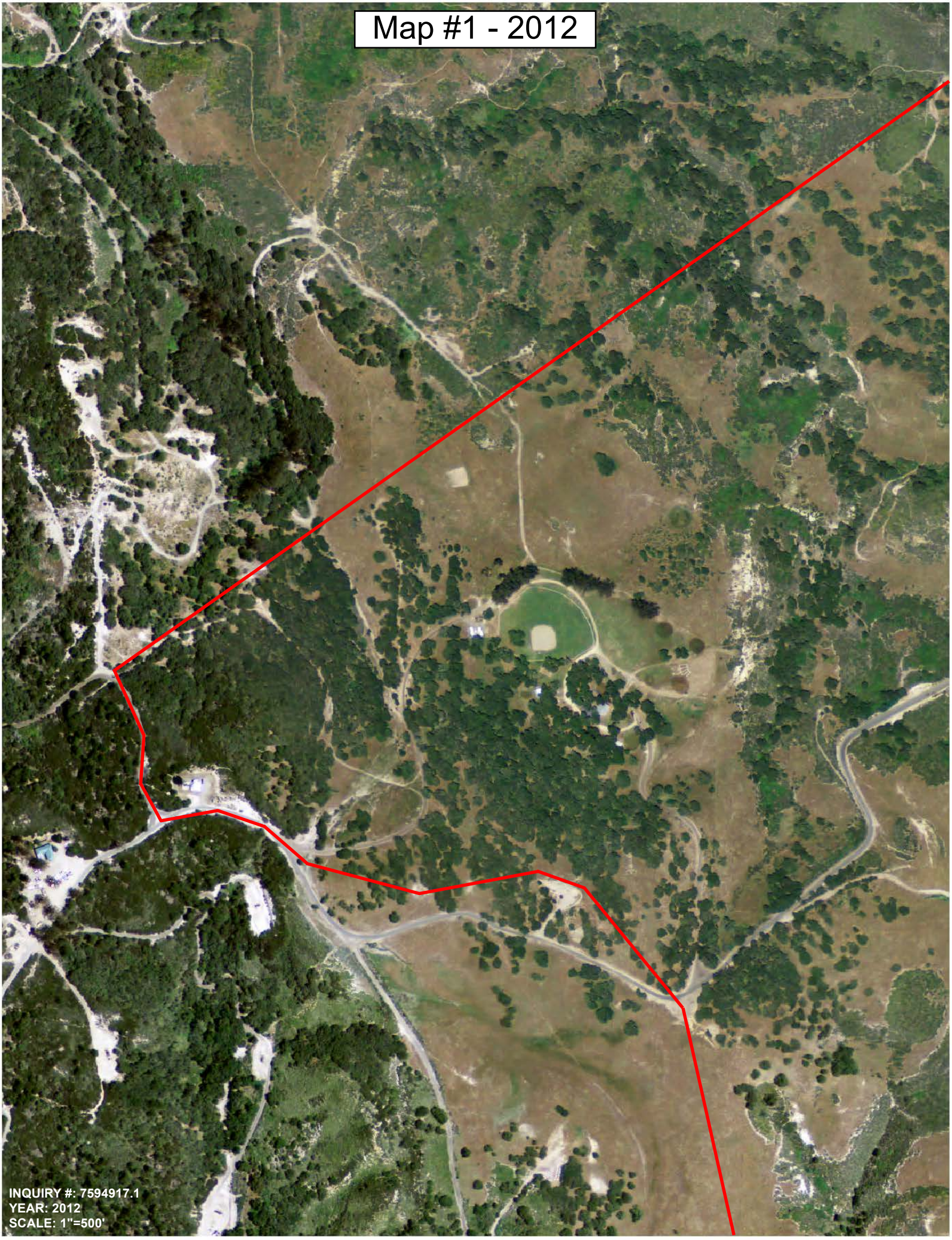

Map #3 - 2009
INQUIRY #: 7594917.1
YEAR: 2009
SCALE: 1"=500'


Map #4 - 2009
INQUIRY #: 7594917.1
YEAR: 2009
SCALE: 1"=500'

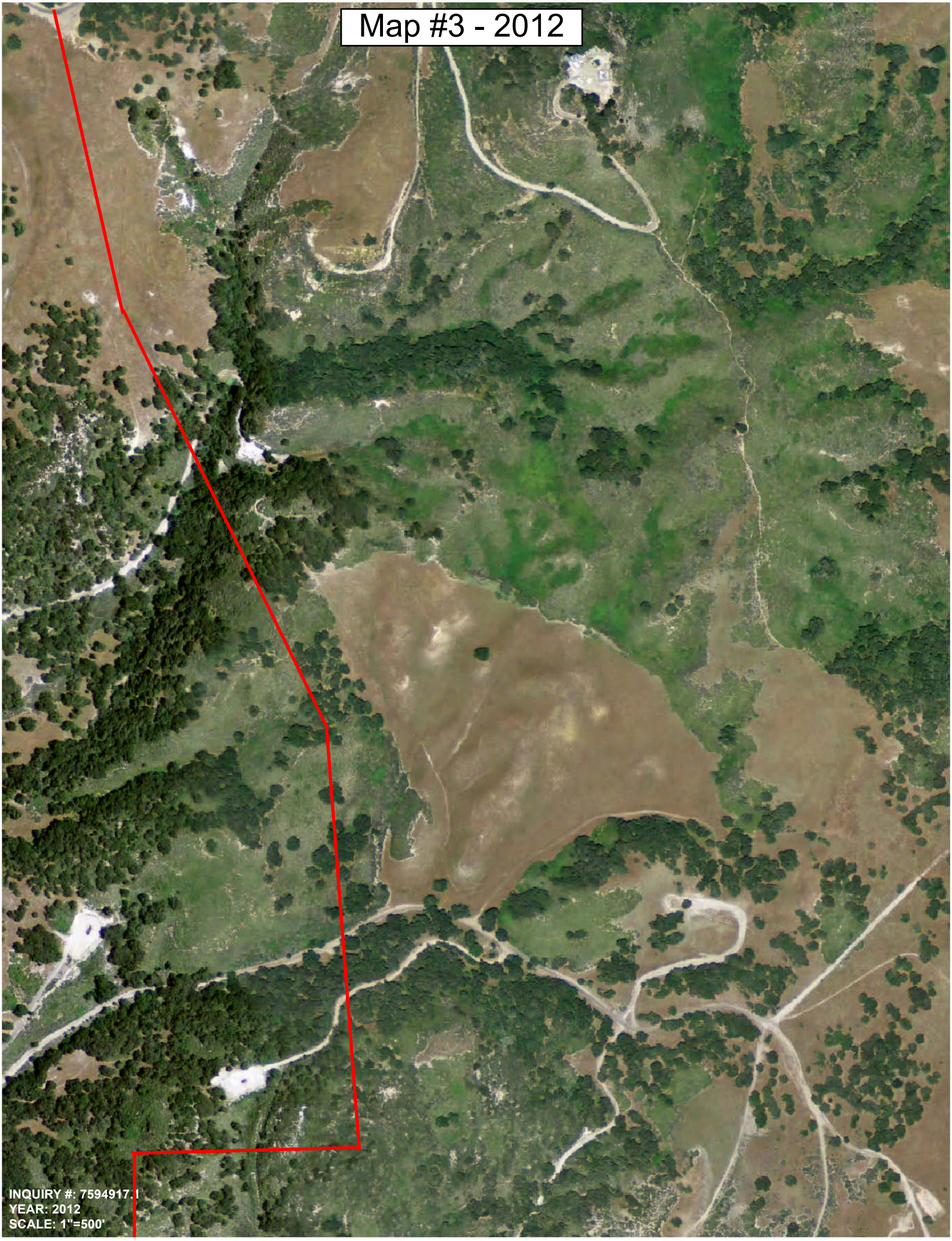

Map #5 - 2009
INQUIRY #: 7594917.1
YEAR: 2009
SCALE: 1"=600'


Map #6 - 2009
INQUIRY #: 7594917.1
YEAR: 2009
SCALE: 1"=500'

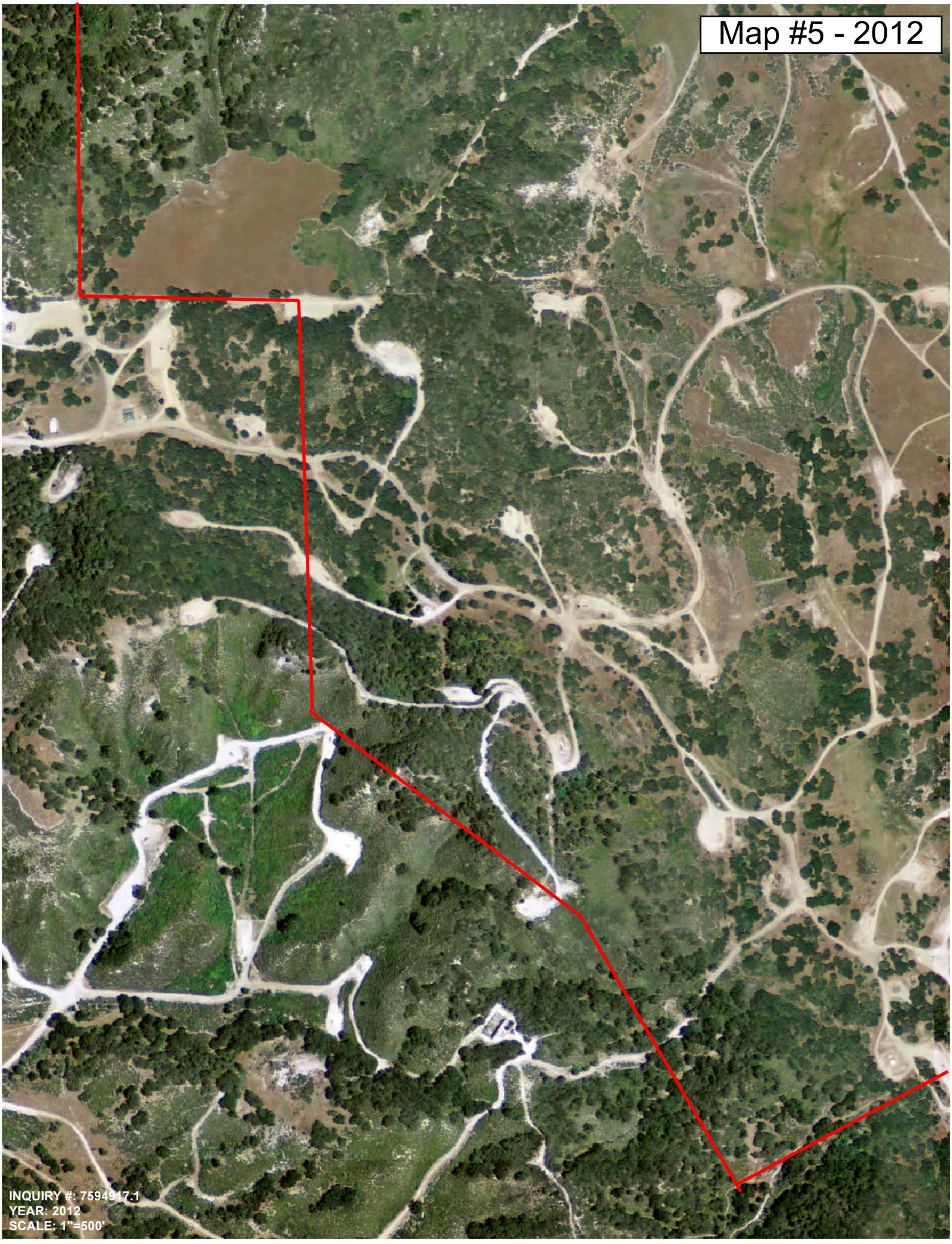

Map #7 - 2005
INQUIRY #: 7594917.1
YEAR: 2009
SCALE: 1"=500'


Map #1 - 2012
INQUIRY #: 7594917.1
YEAR: 2012
SCALE: 1"=500'


Map #2 - 2012
INQUIRY #: 7594917.1
YEAR: 2012
SCALE: 1"=500'


Map #3 - 2012
INQUIRY #: 7594917.1
YEAR: 2012
SCALE: 1"=500'


Map #4 - 2012
INQUIRY #: 7594917.1
YEAR: 2012
SCALE: 1"=500'


Map #5 - 2012
INQUIRY #: 7594917.1
YEAR: 2012
SCALE: 1"=500'


Map #6 - 2012
INQUIRY #: 7594917.1
YEAR: 2012
SCALE: 1"=500'

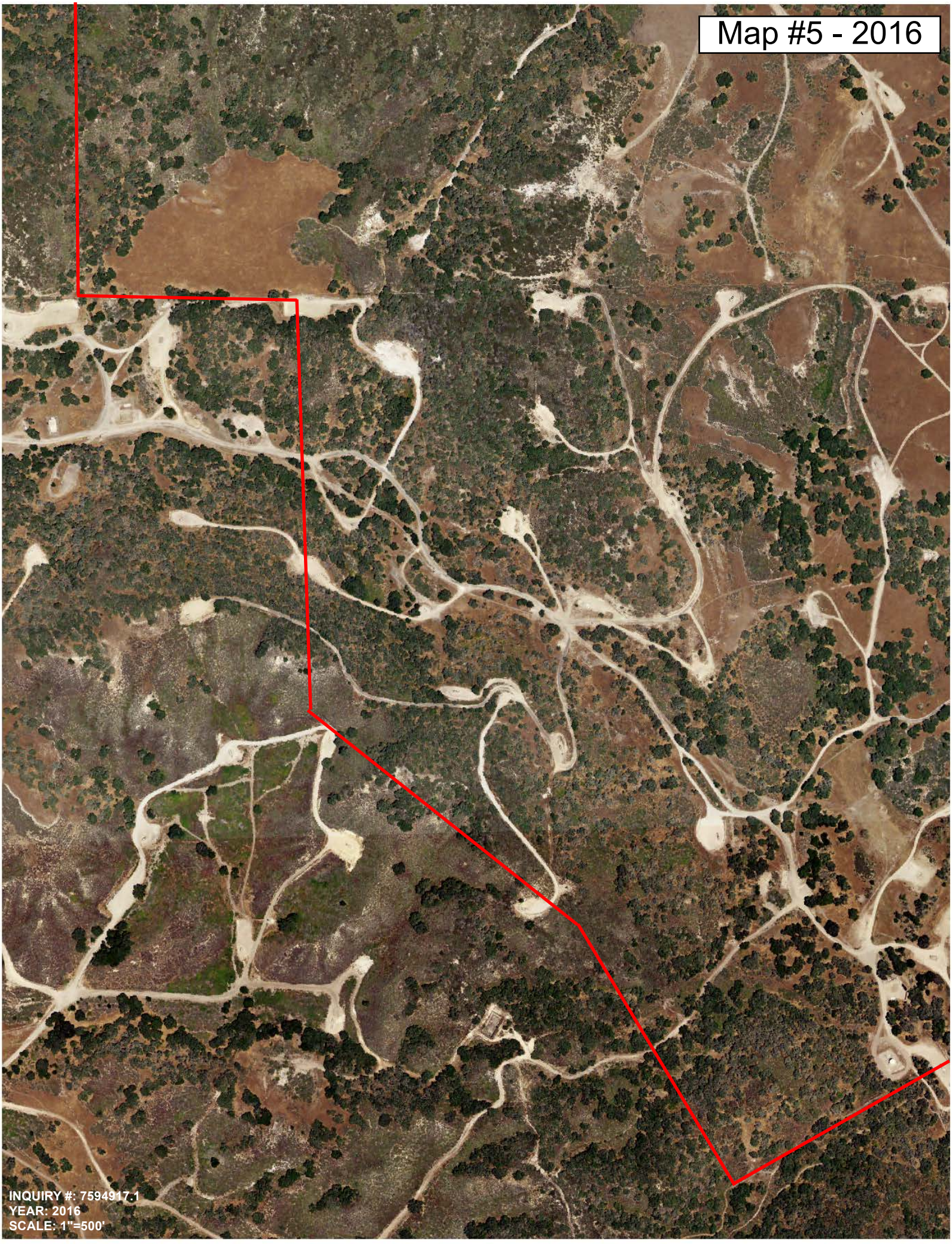

Map #7 - 2012
INQUIRY #: 7594917.1
YEAR: 2012
SCALE: 1"=500'


Map #1 - 2016
INQUIRY #: 7594917.1
YEAR: 2016
SCALE: 1"=500'


Map #2 - 2016
INQUIRY #: 7594917.1
YEAR: 2016
SCALE: 1"=500'


Map #3 - 2016
INQUIRY #: 7594917.1
YEAR: 2016
SCALE: 1"=500'


Map #4 - 2016
INQUIRY #: 7594917.1
YEAR: 2016
SCALE: 1"=500'


Map #5 - 2016
INQUIRY #: 7594917.1
YEAR: 2016
SCALE: 1"=500'


Map #6 - 2016
INQUIRY #: 7594917.1
YEAR: 2016
SCALE: 1"=500'

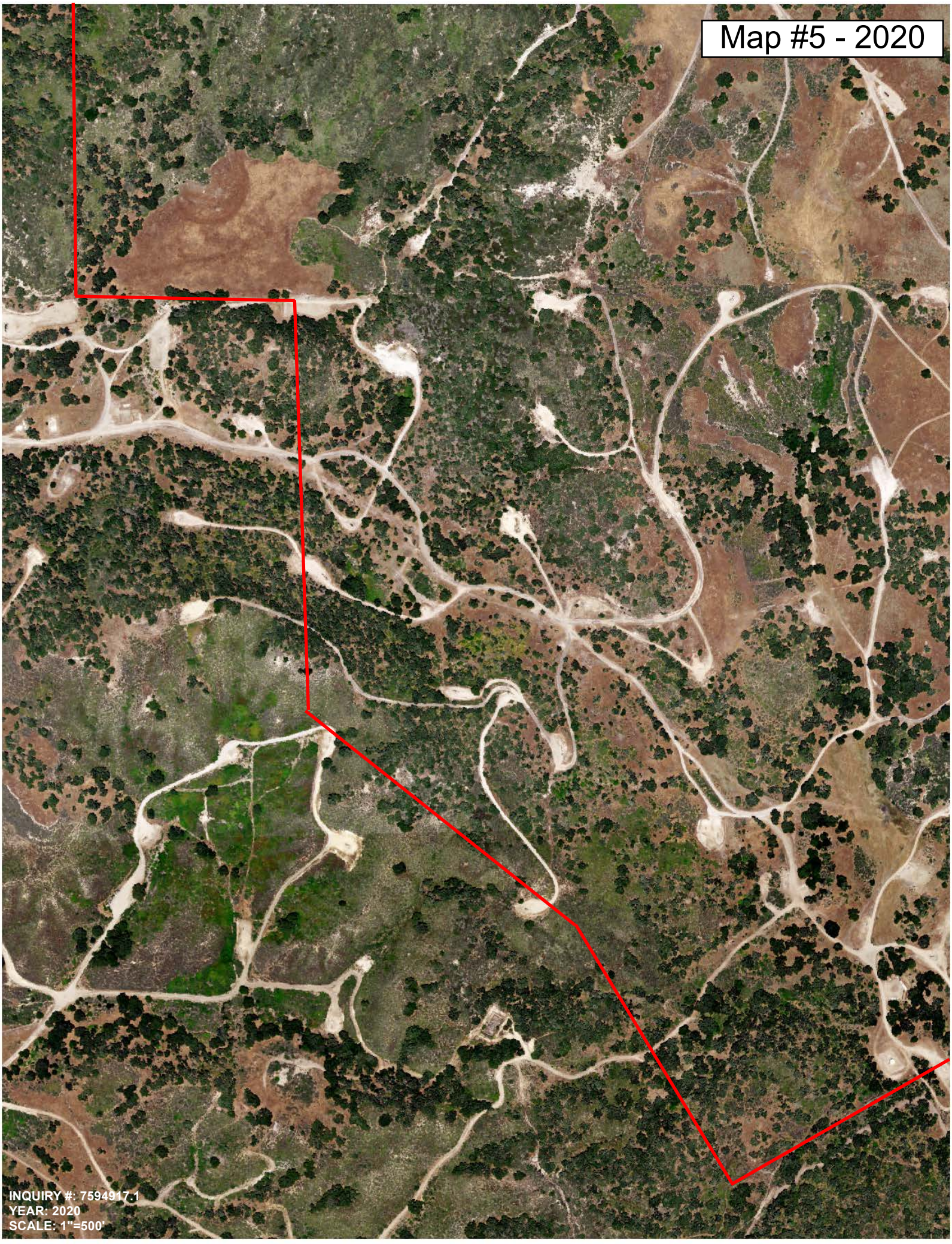

Map #7 - 2016
INQUIRY #: 7594917.1
YEAR: 2016
SCALE: 1"=500'


Map #1 - 2020
INQUIRY #: 7594917.1
YEAR: 2020
SCALE: 1"=500'


Map #2 - 2020
INQUIRY #: 7594917.1
YEAR: 2020
SCALE: 1"=500'


Map #3 - 2020
INQUIRY #: 7594917.1
YEAR: 2020
SCALE: 1"=500'


Map #4 - 2020
INQUIRY #: 7594917.1
YEAR: 2020
SCALE: 1"=500'


Map #5 - 2020
INQUIRY #: 7594917.1
YEAR: 2020
SCALE: 1"=500'


Map #6 - 2020
INQUIRY #: 7594917.1
YEAR: 2020
SCALE: 1"=500'


Map #7 - 2020
INQUIRY #: 7594917.1
YEAR: 2020
SCALE: 1"=500'

Solomon Hills Phase I

Portions of Careaga and Newlove Leases

Santa Maria, CA 93455

Inquiry Number: 8028600.1

June 26, 2025

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Date EDR Searched Historical Sources:

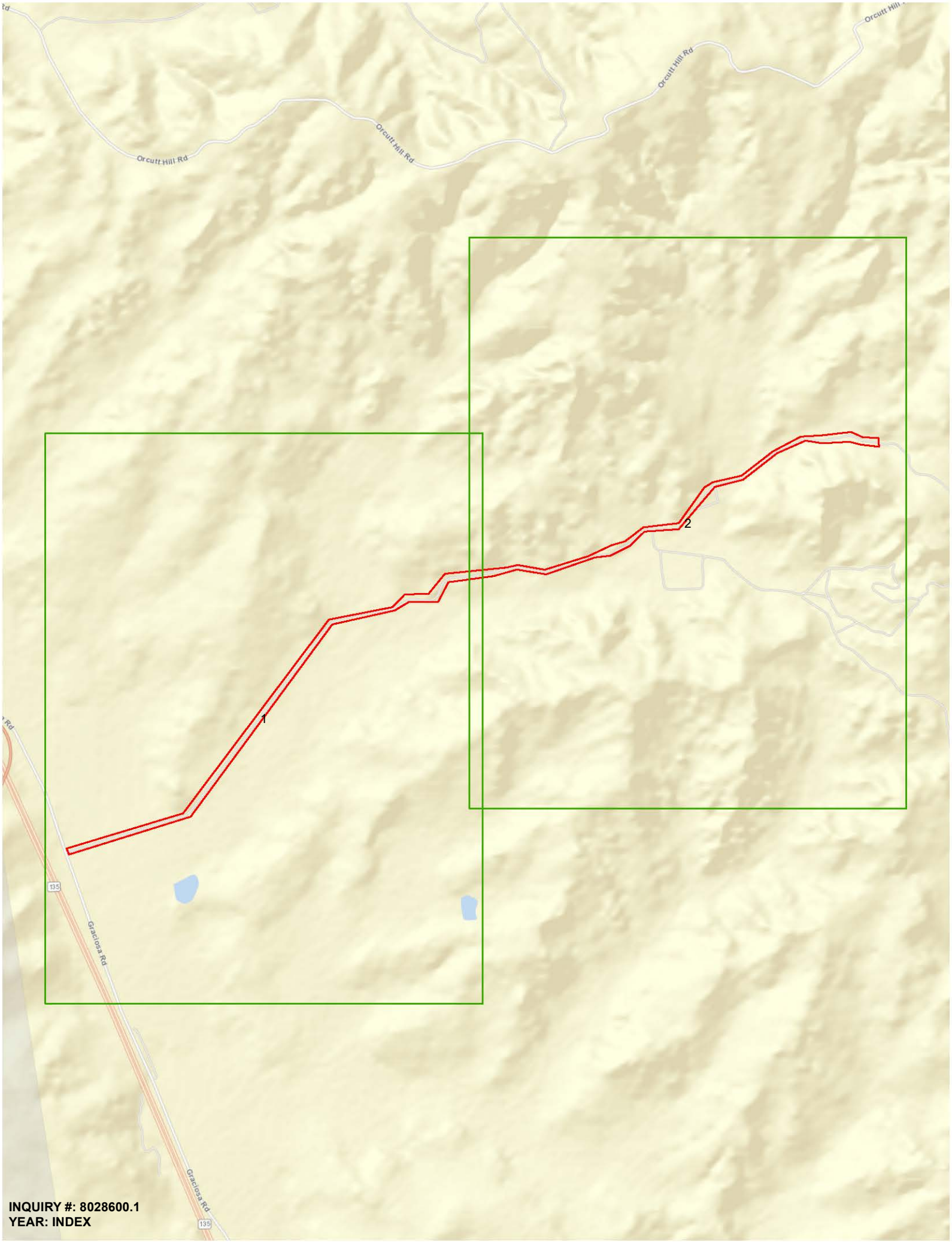
Aerial Photography June 26, 2025

Target Property:

Portions of Careaga and Newlove Leases

Santa Maria, CA 93455

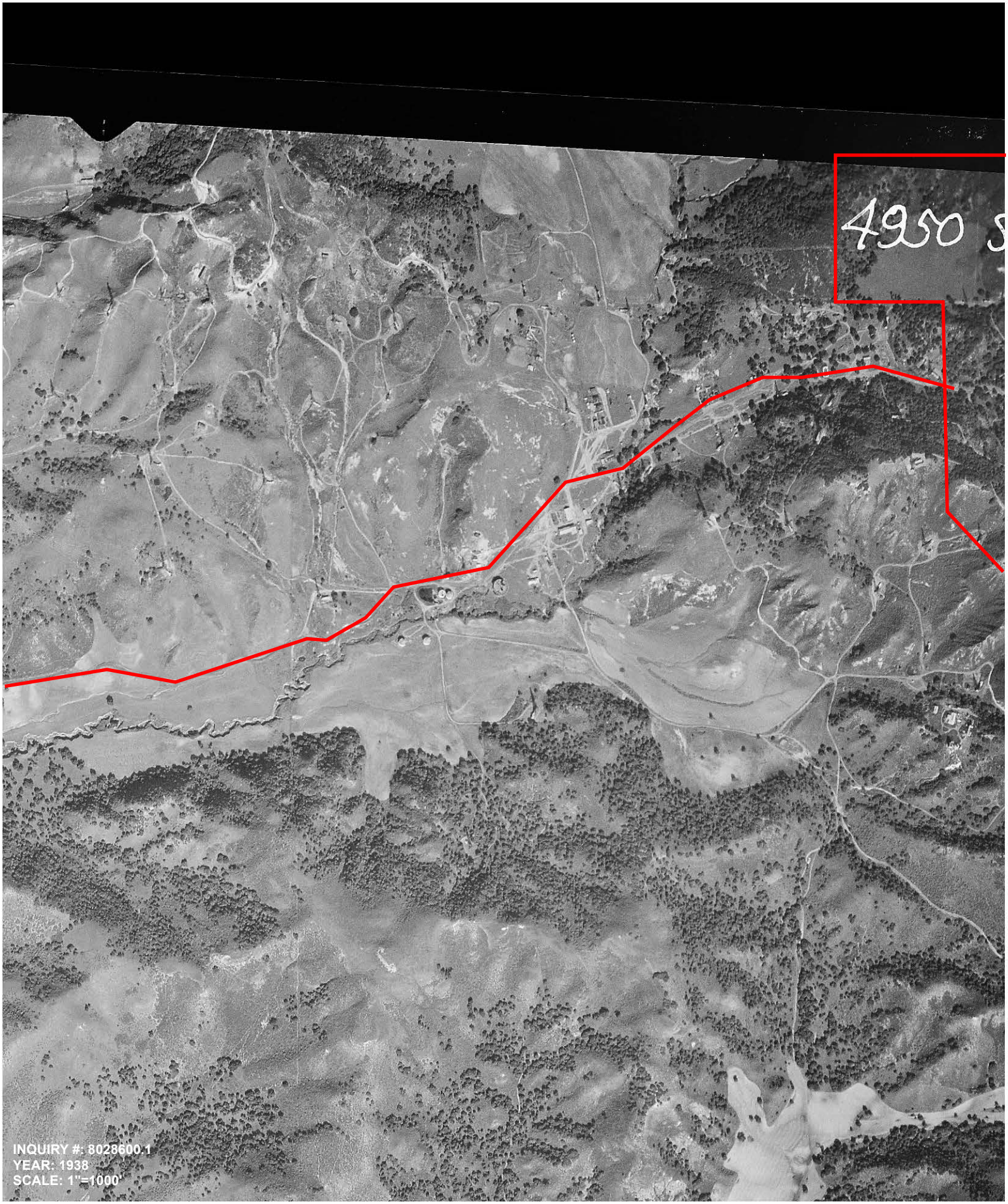
Year	***Scale***	***Details***	***Source***
1938	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1938	FAIRCHILD
1943	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1943	USDA
1954	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1954	USDA
1960	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1960	USGS
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	USGS
1978	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1978	USGS
1981	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1981	USDA
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2005	USGS/NAIP
2009	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2009	USGS/NAIP
2012	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2012	USGS/NAIP
2018	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2018	USGS/NAIP
2022	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2022	USGS/NAIP



INQUIRY #: 8028600.1
YEAR: INDEX

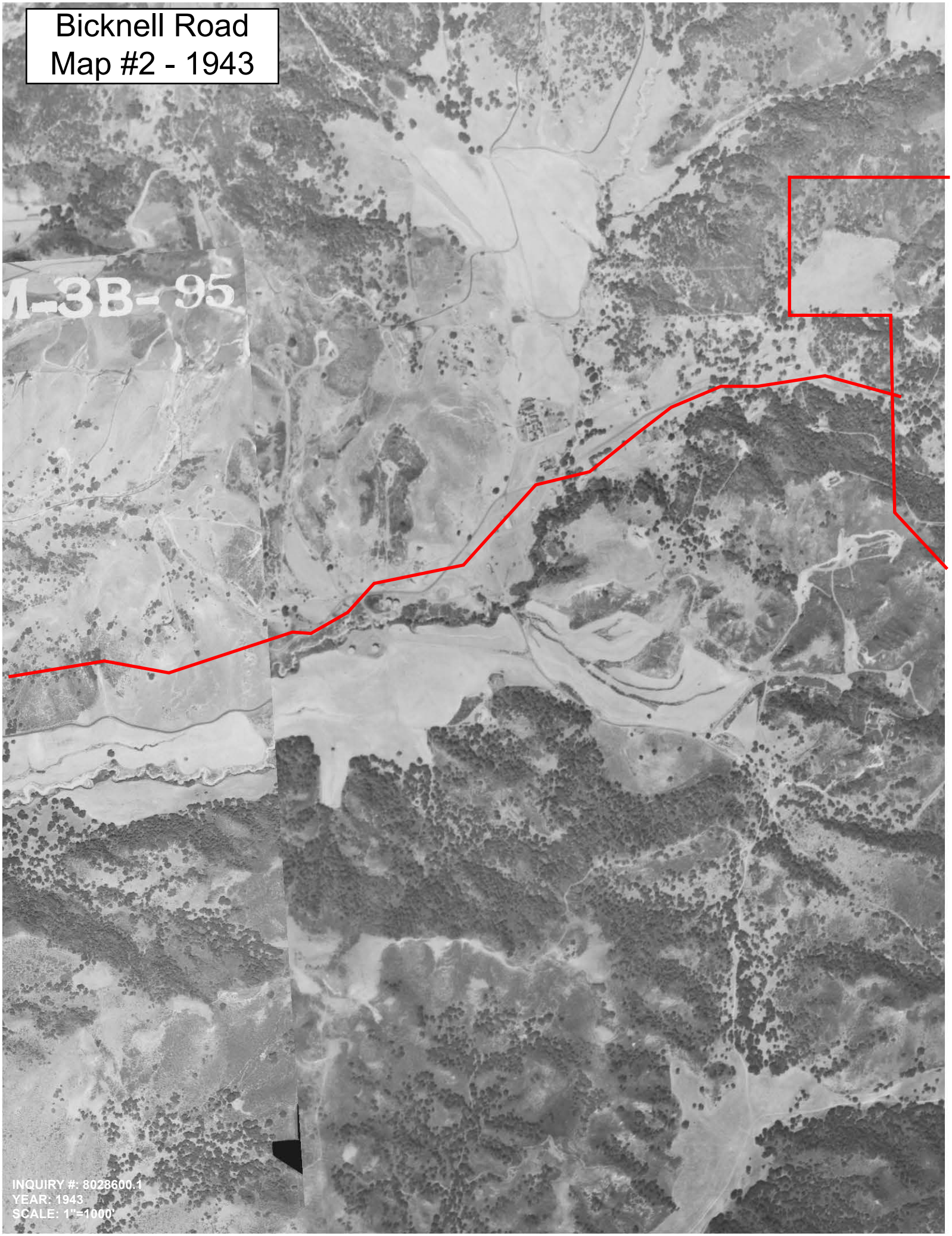

Bicknell Road
Map #1 - 1938
INQUIRY #: 8028600.1
YEAR: 1938
SCALE: 1"=1000'

Bicknell Road
Map #2 - 1938




Bicknell Road
Map #1 - 1943
INQUIRY #: 8028600.1
YEAR: 1943
SCALE: 1"=1000'

Bicknell Road
Map #2 - 1943



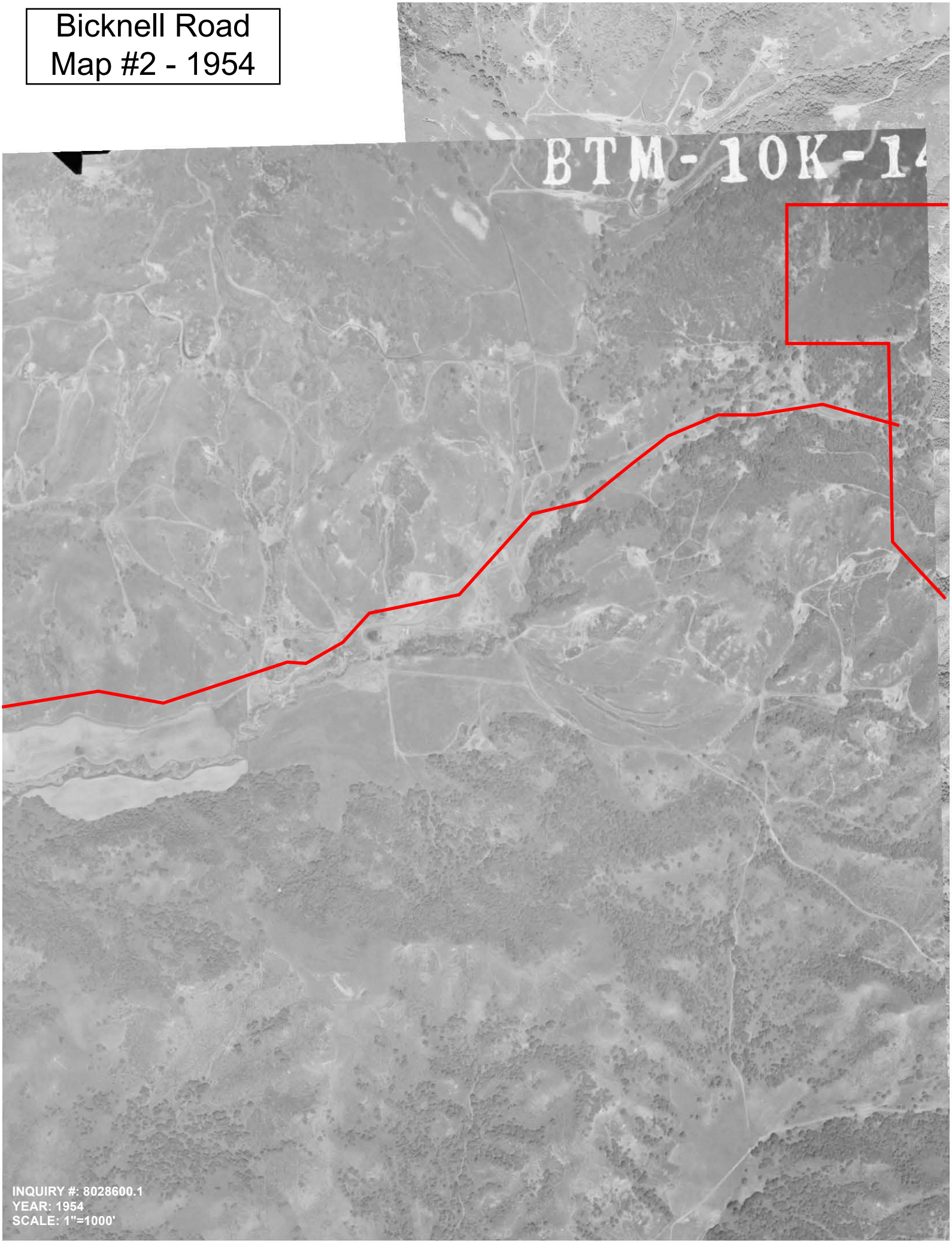
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SCALE: 1"=1000'

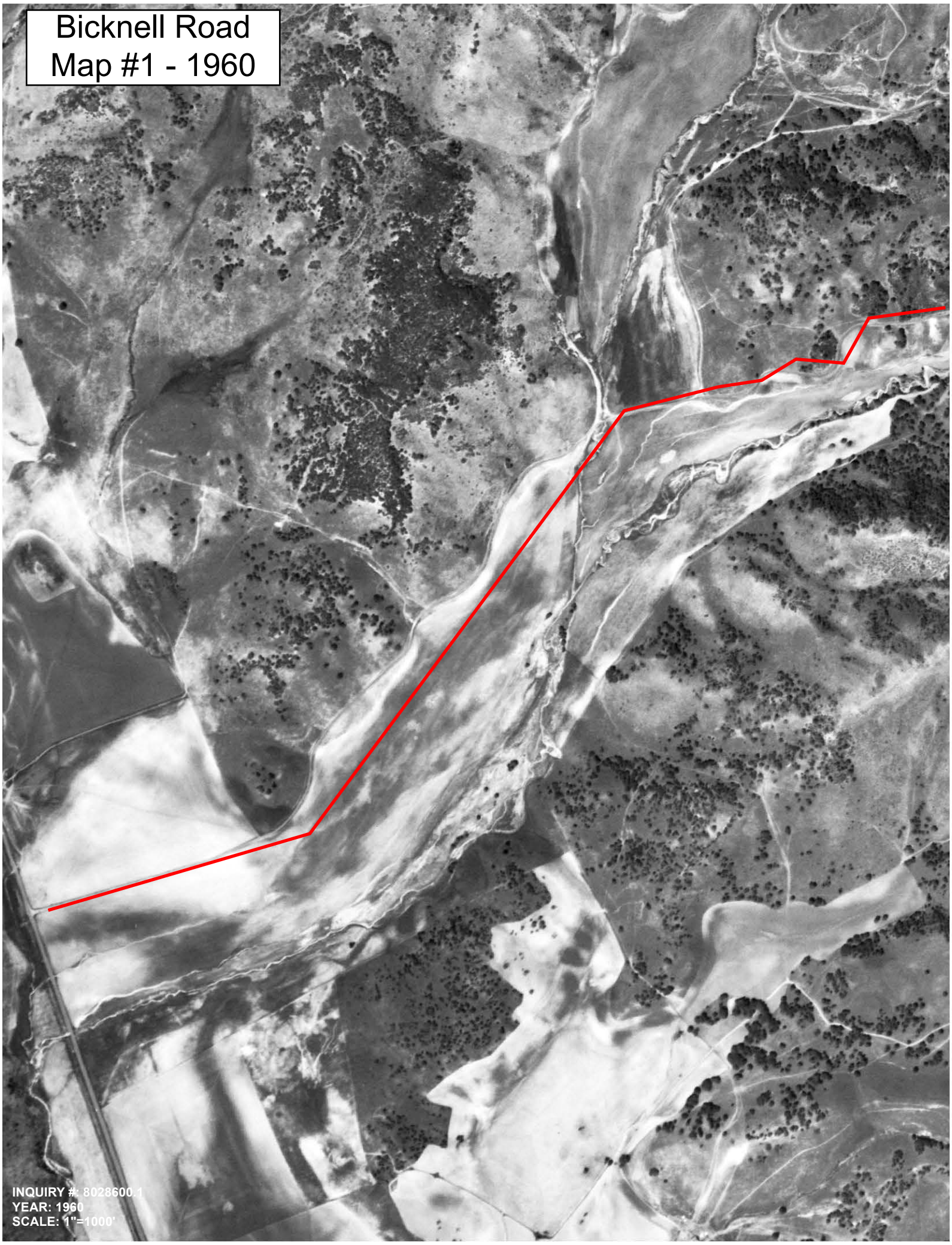
Bicknell Road
Map #1 - 1954

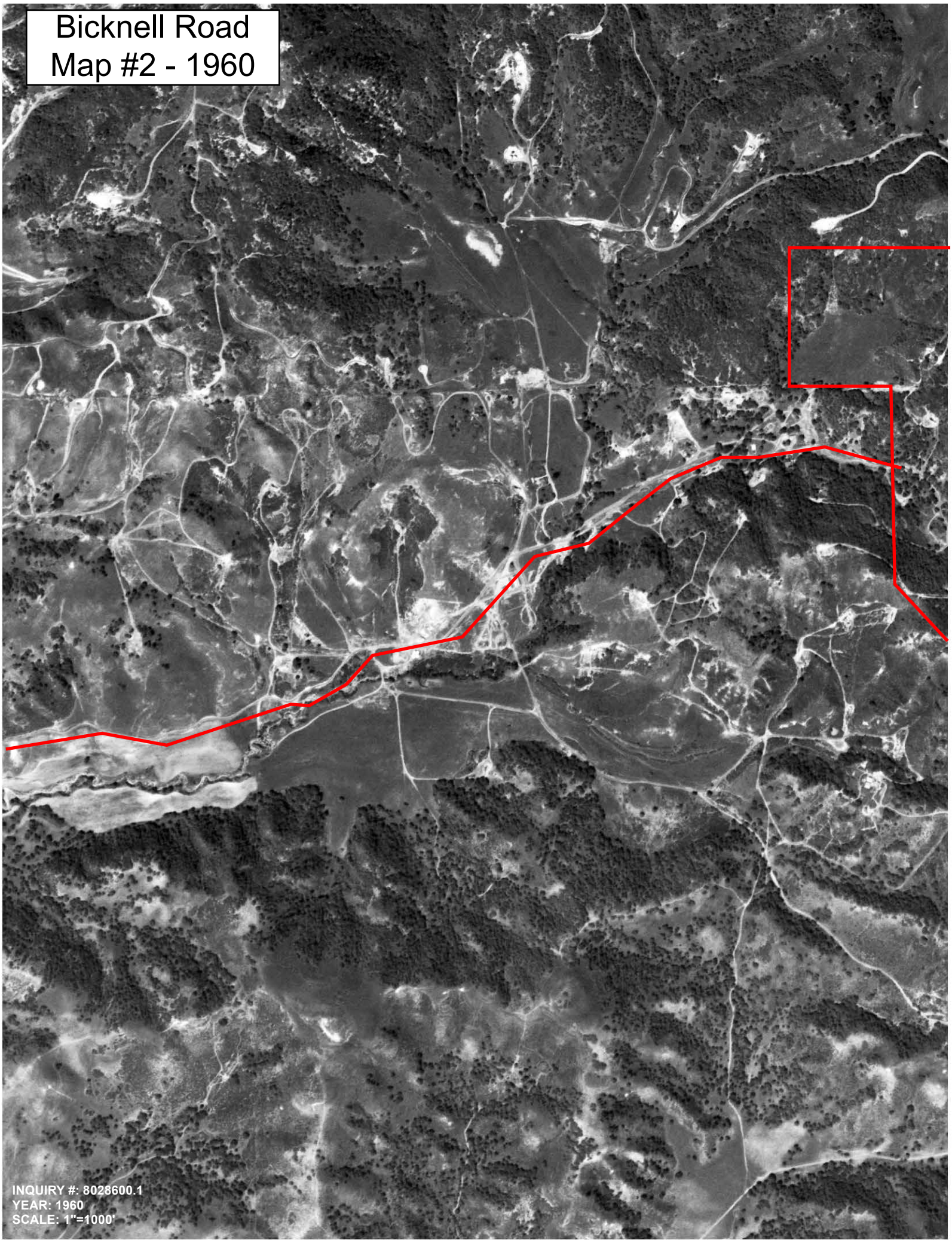


INQUIRY #: 8028600.1
YEAR: 1954
SCALE: 1"=1000'

Bicknell Road
Map #2 - 1954

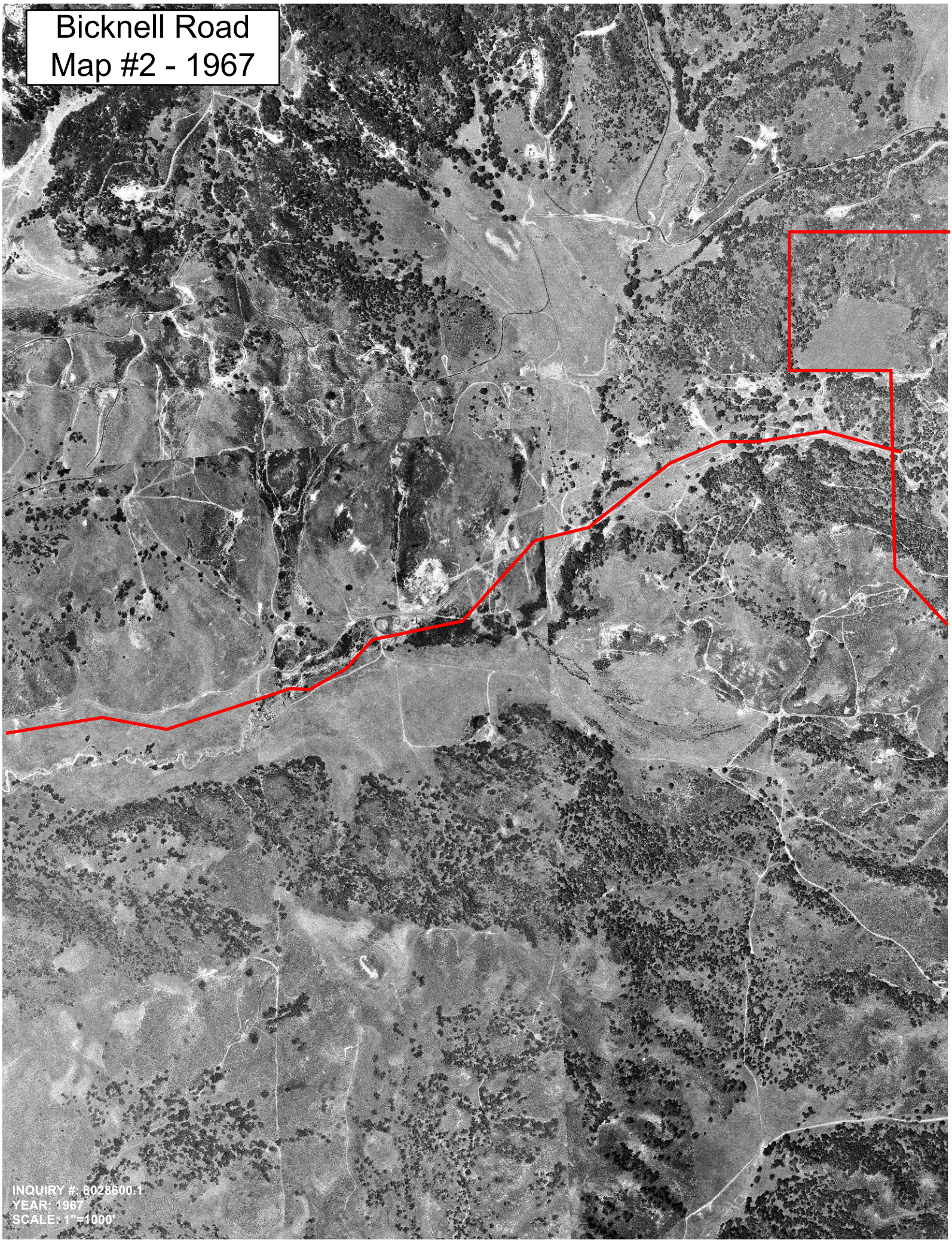



Bicknell Road
Map #1 - 1960
INQUIRY #: 8028600.1
YEAR: 1960
SCALE: 1"=1000'

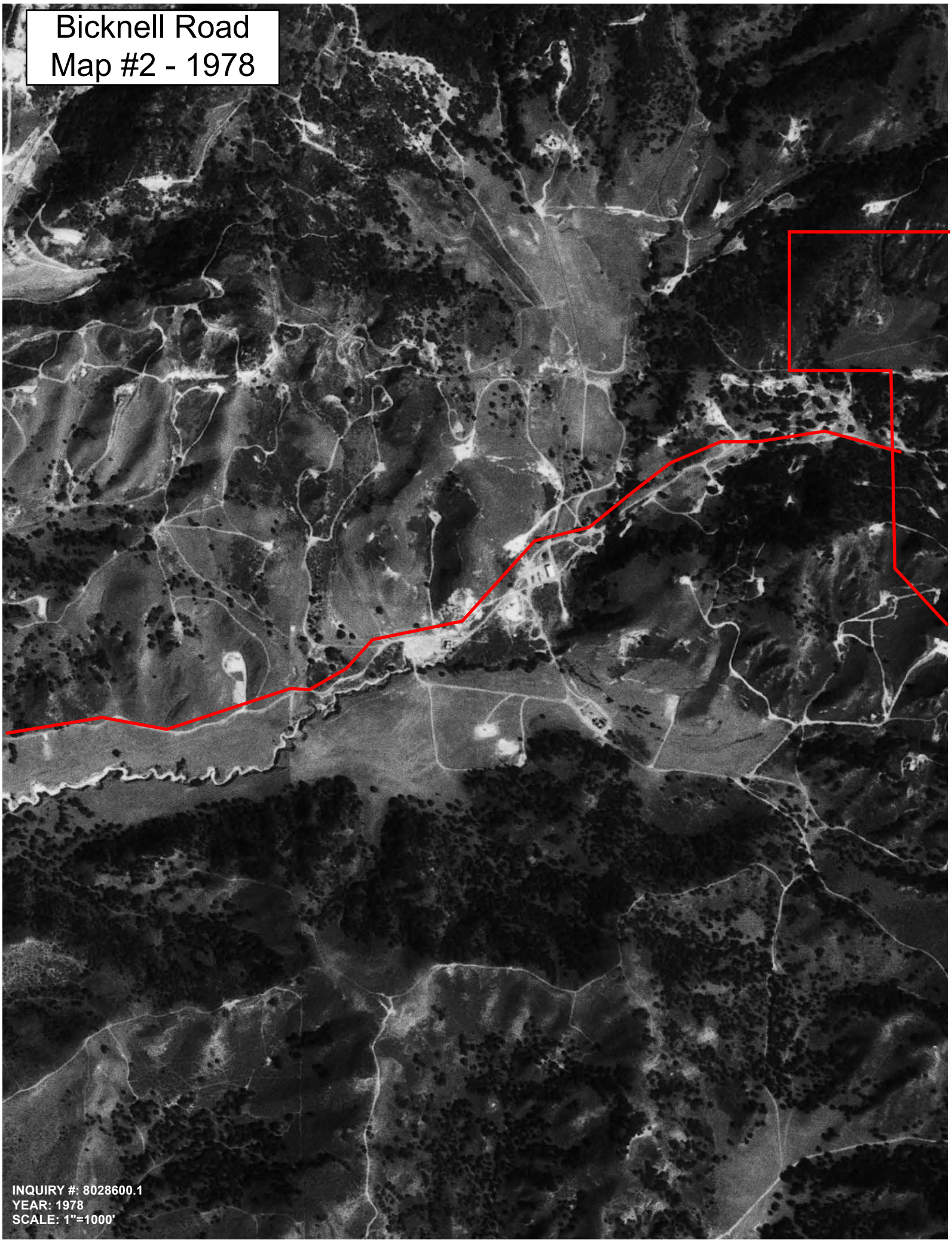

Bicknell Road
Map #2 - 1960
INQUIRY #: 8028600.1
YEAR: 1960
SCALE: 1"=1000'

Bicknell Road
Map #1 - 1967




Bicknell Road
Map #2 - 1967
INQUIRY #: 8028600.1
YEAR: 1967
SCALE: 1"=1000'

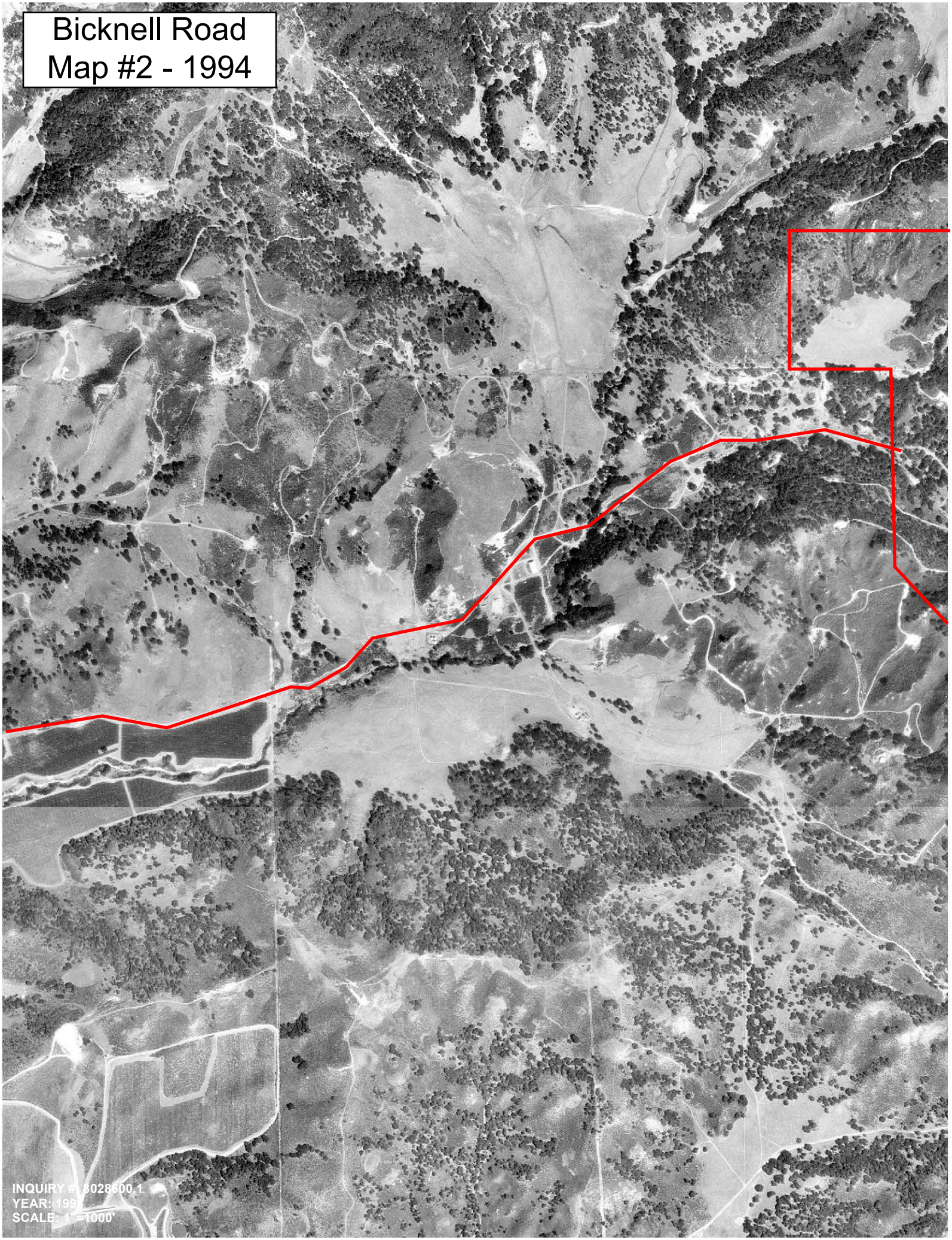

Bicknell Road
Map #1 - 1978
INQUIRY #: 8028600.1
YEAR: 1978
SCALE: 1"=1000'

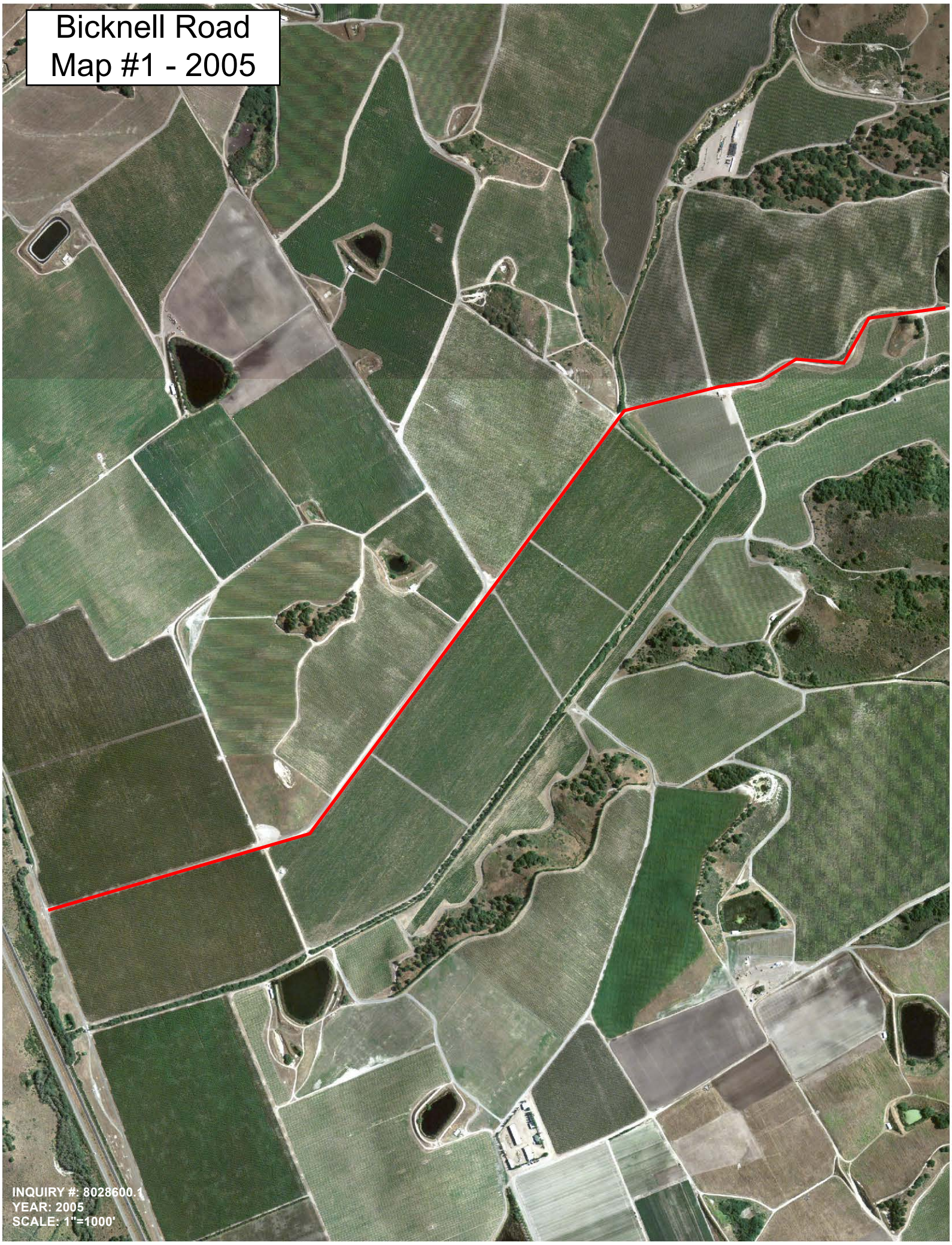

Bicknell Road
Map #2 - 1978
INQUIRY #: 8028600.1
YEAR: 1978
SCALE: 1"=1000'

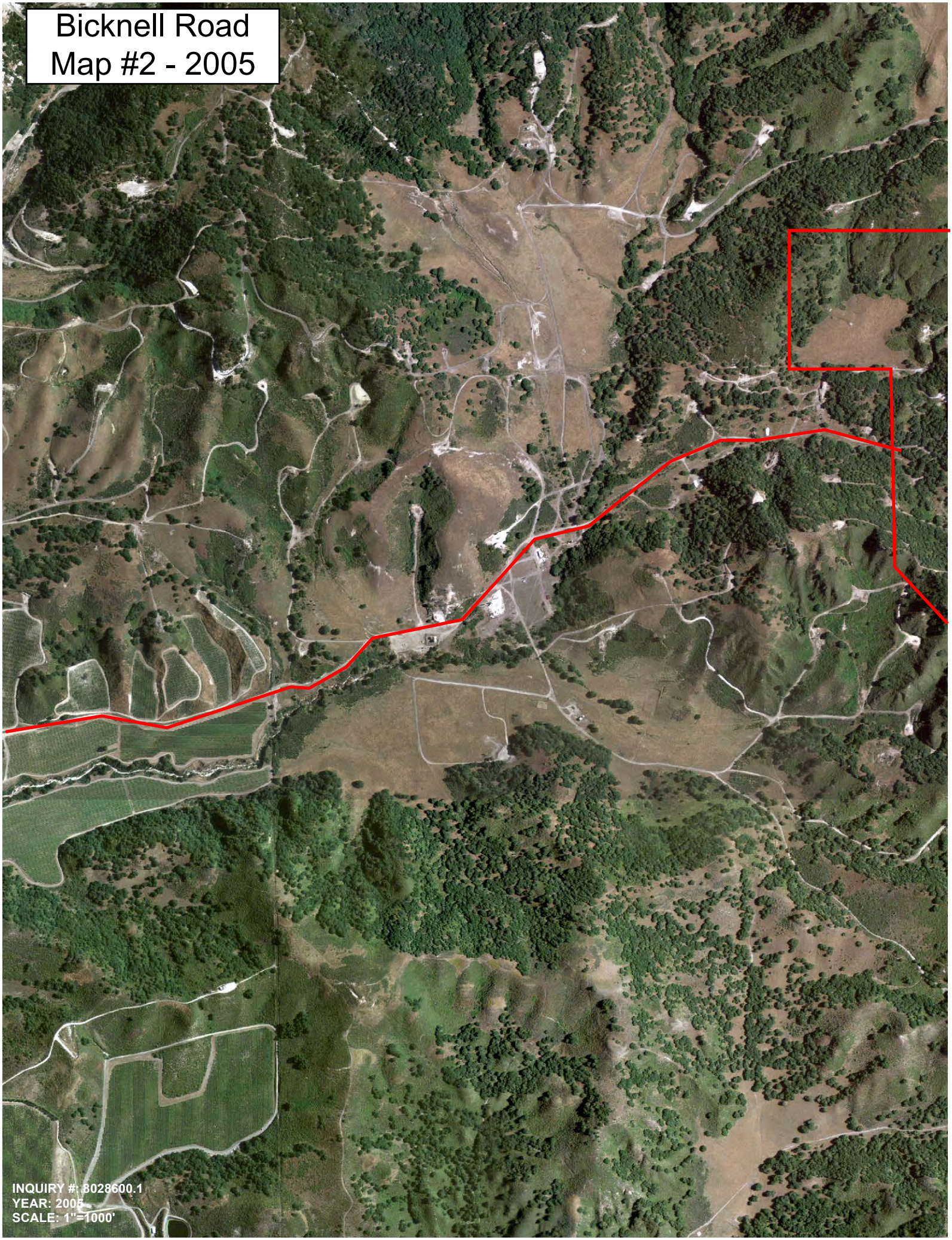

Bicknell Road
Map #1 - 1981
INQUIRY #: 8028600.1
YEAR: 1981
SCALE: 1"=1000'


Bicknell Road
Map #2 - 1981
INQUIRY #: 8028600.1
YEAR: 1981
SCALE: 1"=1000'

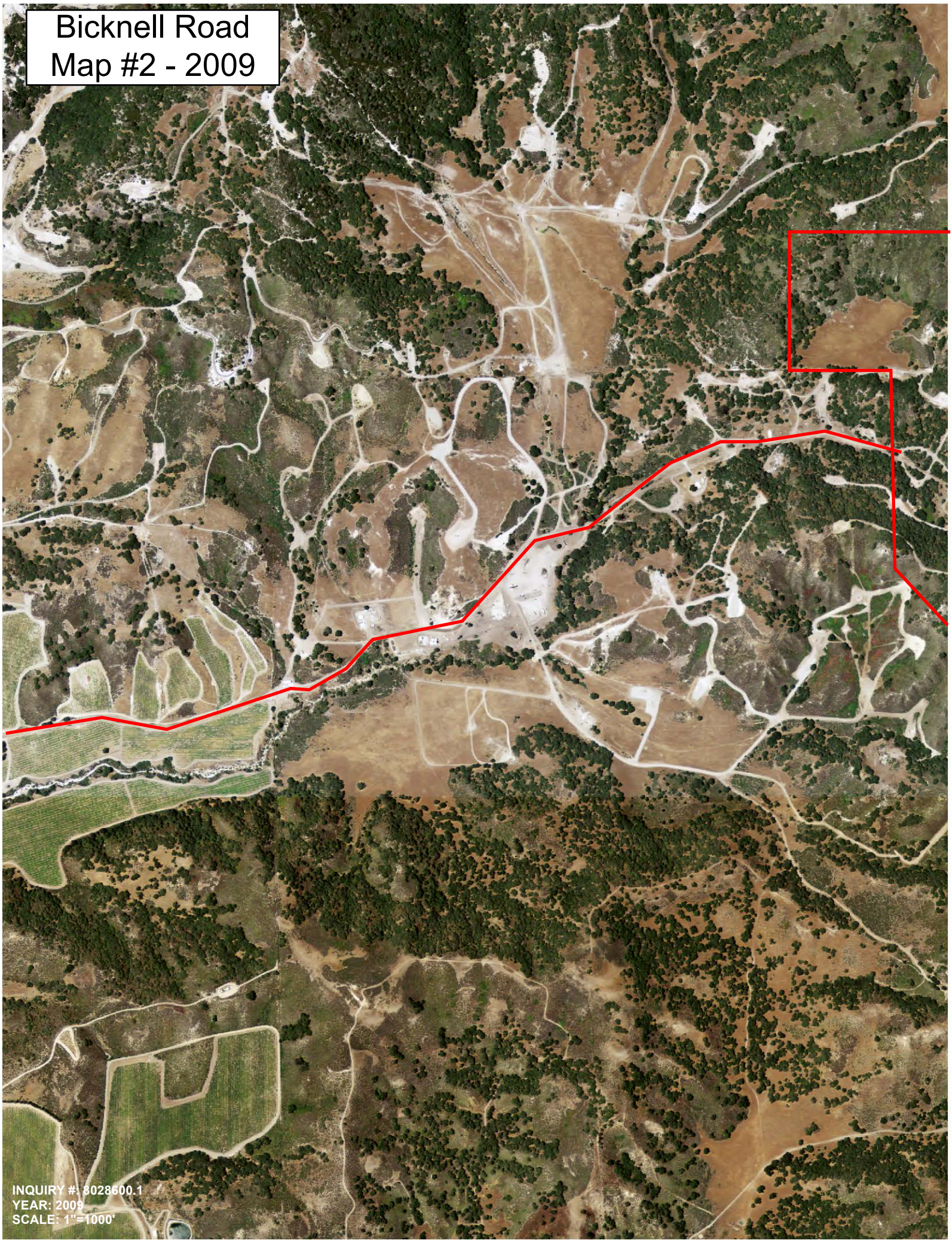

Bicknell Road
Map #1 - 1994
INQUIRY #: 8028600.1
YEAR: 1994
SCALE: 1"=1000'


Bicknell Road
Map #2 - 1994
INQUIRY #: 3028600.1
YEAR: 199
SCALE: 1" =1000'

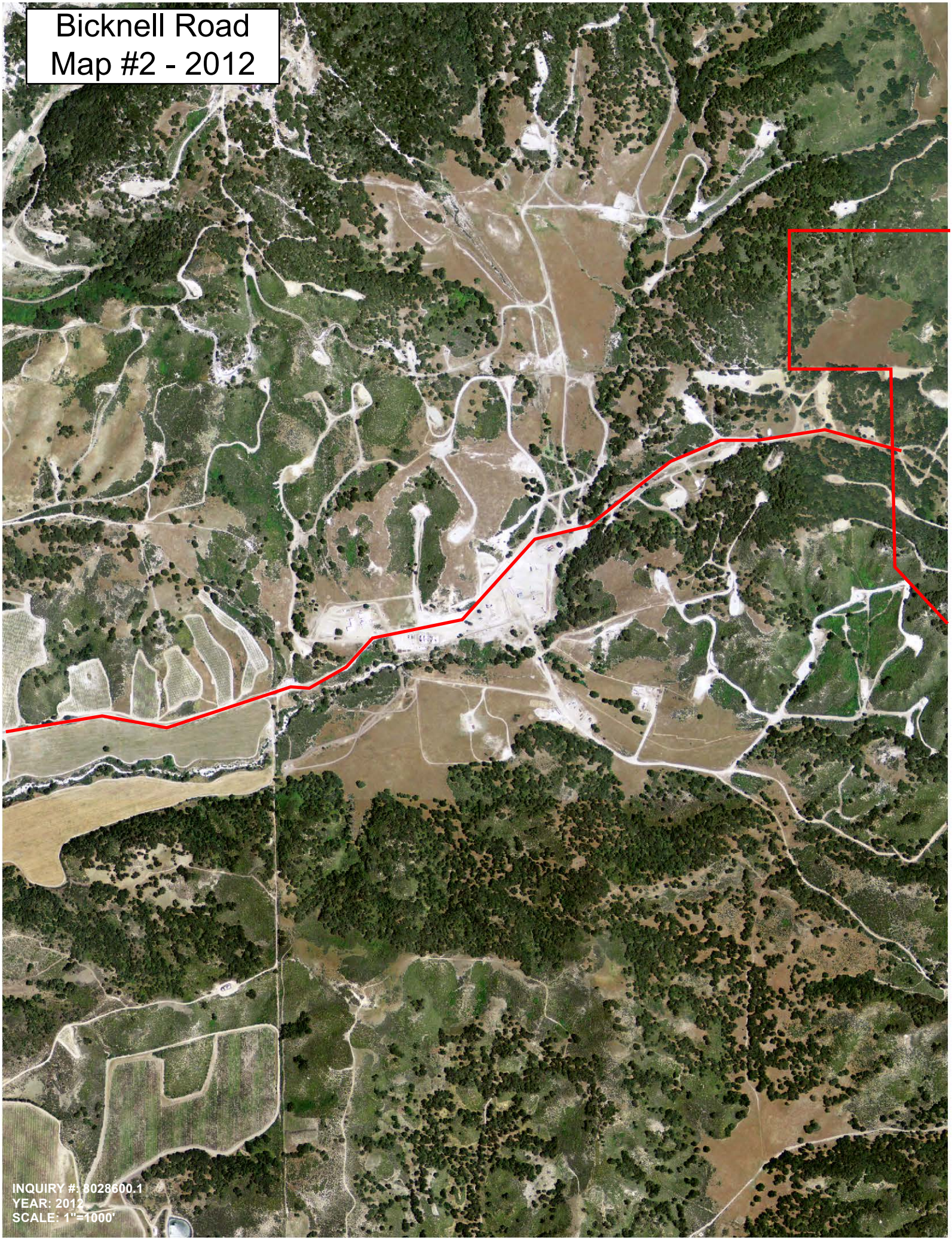

Bicknell Road
Map #1 - 2005
INQUIRY #: 8028600.1
YEAR: 2005
SCALE: 1"=1000'


Bicknell Road
Map #2 - 2005
INQUIRY #: 8028600.1
YEAR: 2005
SCALE: 1"=1000'


Bicknell Road
Map #1 - 2009
INQUIRY #: 8028600.1
YEAR: 2009
SCALE: 1"=1000'


Bicknell Road
Map #2 - 2009
INQUIRY #: 8028600.1
YEAR: 2009
SCALE: 1"=1000'

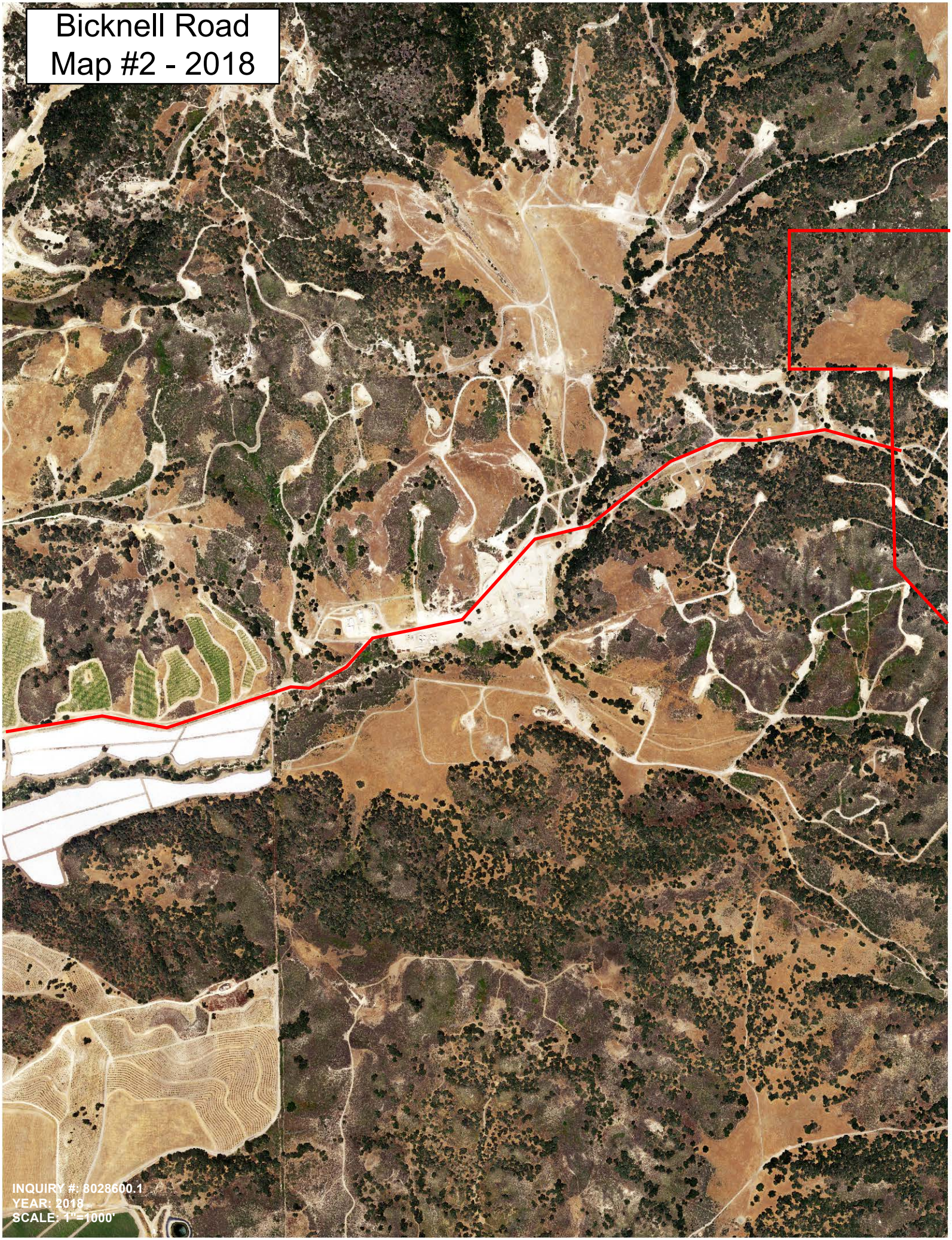

Bicknell Road
Map #1 - 2012
INQUIRY #: 8028600.1
YEAR: 2012
SCALE: 1"=1000'


Bicknell Road
Map #2 - 2012
INQUIRY #: 3028600.1
YEAR: 2012
SCALE: 1"=1000'

Bicknell Road
Map #1 - 2018



INQUIRY #: 8028600.1
YEAR: 2018
SCALE: 1"=1000'

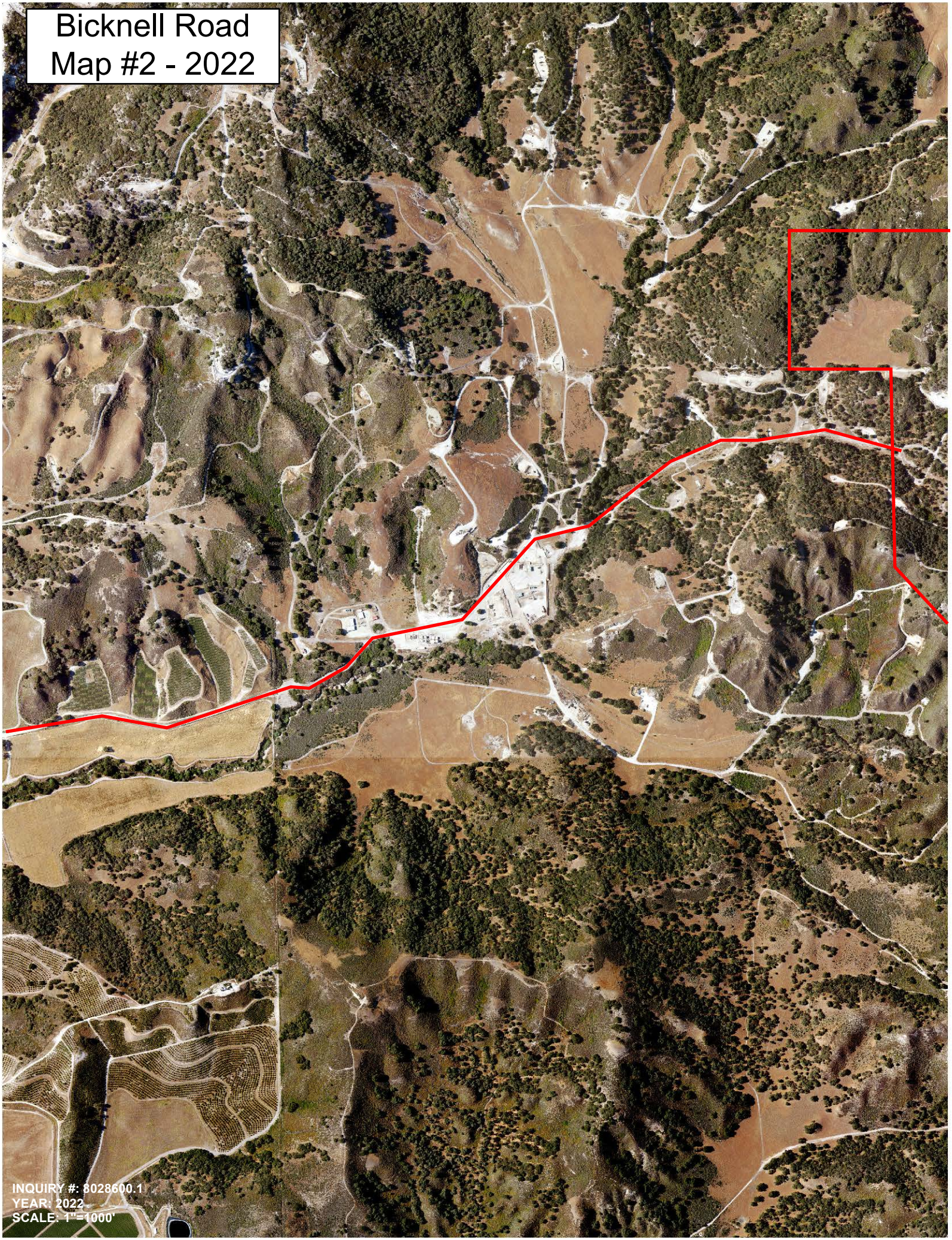

Bicknell Road
Map #2 - 2018
INQUIRY #: 8028600.1
YEAR: 2018
SCALE: 1"=1000'

Bicknell Road
Map #1 - 2022



INQUIRY #: 8028600.1
YEAR: 2022
SCALE: 1"=1000'

Bicknell Road
Map #2 - 2022



INQUIRY #: 8028600.1
YEAR: 2022
SCALE: 1"=1000'

Appendix H

Topographic Map Report

Solomon Hills Phase I

Portions of Careaga and Newlove Leases

Santa Maria, CA 93455

Inquiry Number: 8028589.5

June 25, 2025

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/25/25

Site Name:

Solomon Hills Phase I
Portions of Careaga and Newlc
Santa Maria, CA 93455
EDR Inquiry # 8028589.5

Client Name:

Waterstone Environmental Inc
2936 E. Coronado Street
Anaheim, CA 92806
Contact: Heather Fields

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Waterstone Environmental Inc were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: 25-126

Coordinates:

Latitude:	34.818199 34° 49' 6" North
Longitude:	-120.381527 -120° 22' 53" West
UTM Zone:	Zone 10 North
UTM X Meters:	739496.52
UTM Y Meters:	3856008.34
Elevation:	980.61' above sea level

Maps Provided:

2021	1948
2018	1947
2015	1905
2012	
1978	
1974	
1967	
1959	

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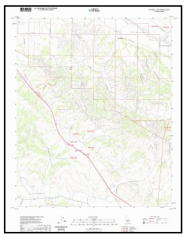
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets

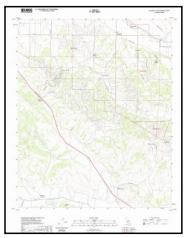


Orcutt
2021
7.5-minute, 24000



Sisquoc
2021
7.5-minute, 24000

2018 Source Sheets



Sisquoc
2018
7.5-minute, 24000

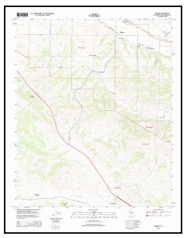


Orcutt
2018
7.5-minute, 24000

2015 Source Sheets

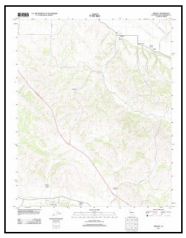


Orcutt
2015
7.5-minute, 24000

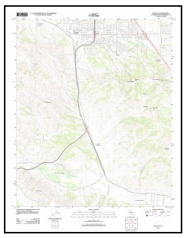


Sisquoc
2015
7.5-minute, 24000

2012 Source Sheets



Sisquoc
2012
7.5-minute, 24000



Orcutt
2012
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1978 Source Sheets



Orcutt
1978
7.5-minute, 24000
Aerial Photo Revised 1978

1974 Source Sheets



Orcutt
1974
7.5-minute, 24000
Aerial Photo Revised 1974



Sisquoc
1974
7.5-minute, 24000
Aerial Photo Revised 1974

1967 Source Sheets



Orcutt
1967
7.5-minute, 24000
Aerial Photo Revised 1967

1959 Source Sheets



Sisquoc
1959
7.5-minute, 24000
Aerial Photo Revised 1956

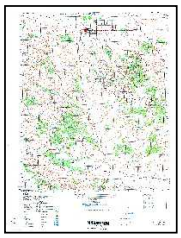


Orcutt
1959
7.5-minute, 24000
Aerial Photo Revised 1956

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1948 Source Sheets



ORCUTT
1948
7.5-minute, 25000

1947 Source Sheets



Orcutt
1947
7.5-minute, 24000
Aerial Photo Revised 1946



Careaga Canyon
1947
7.5-minute, 24000
Aerial Photo Revised 1946

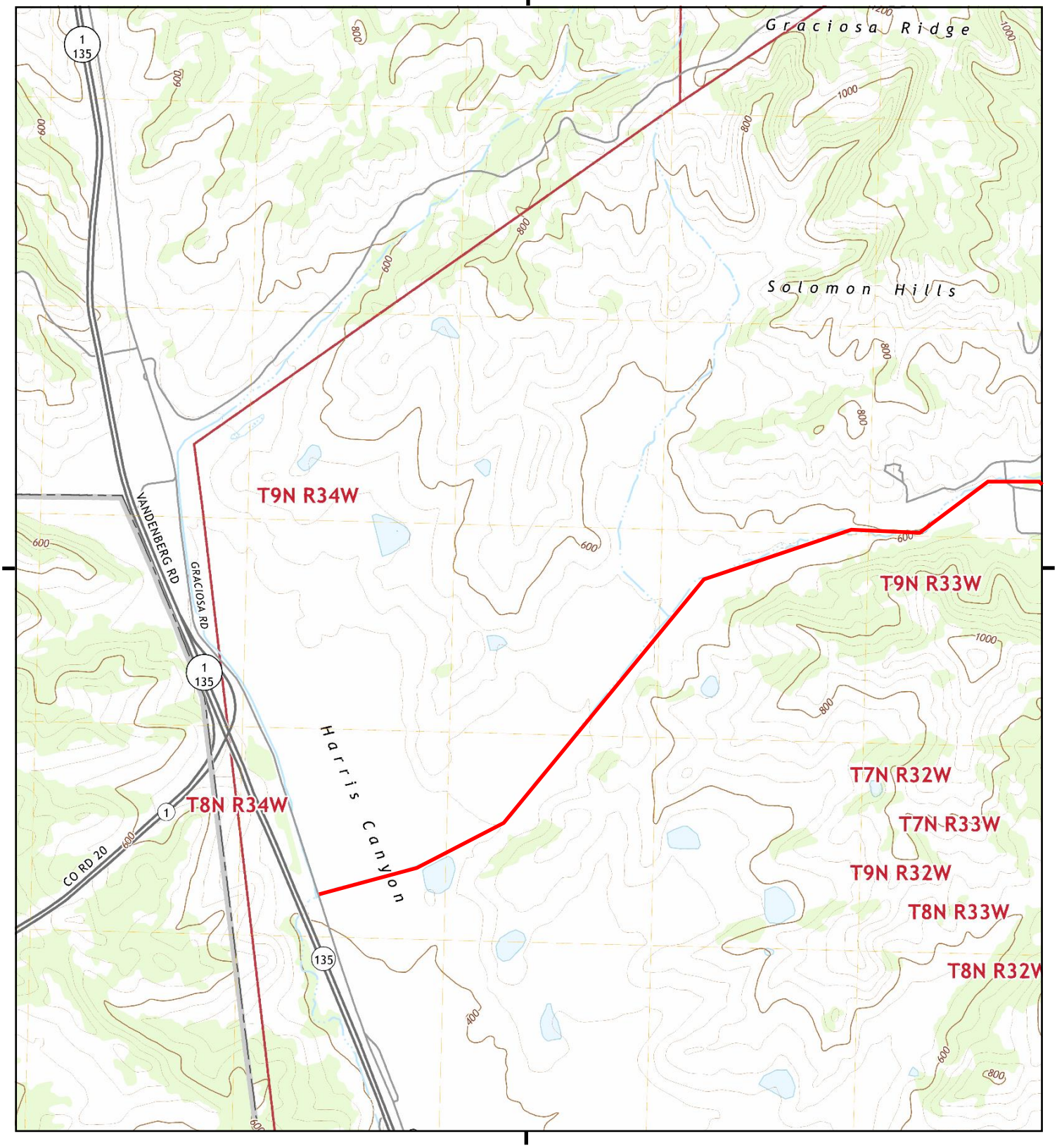
1905 Source Sheets



Lompoc
1905
30-minute, 125000

Historical Topo Map

2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

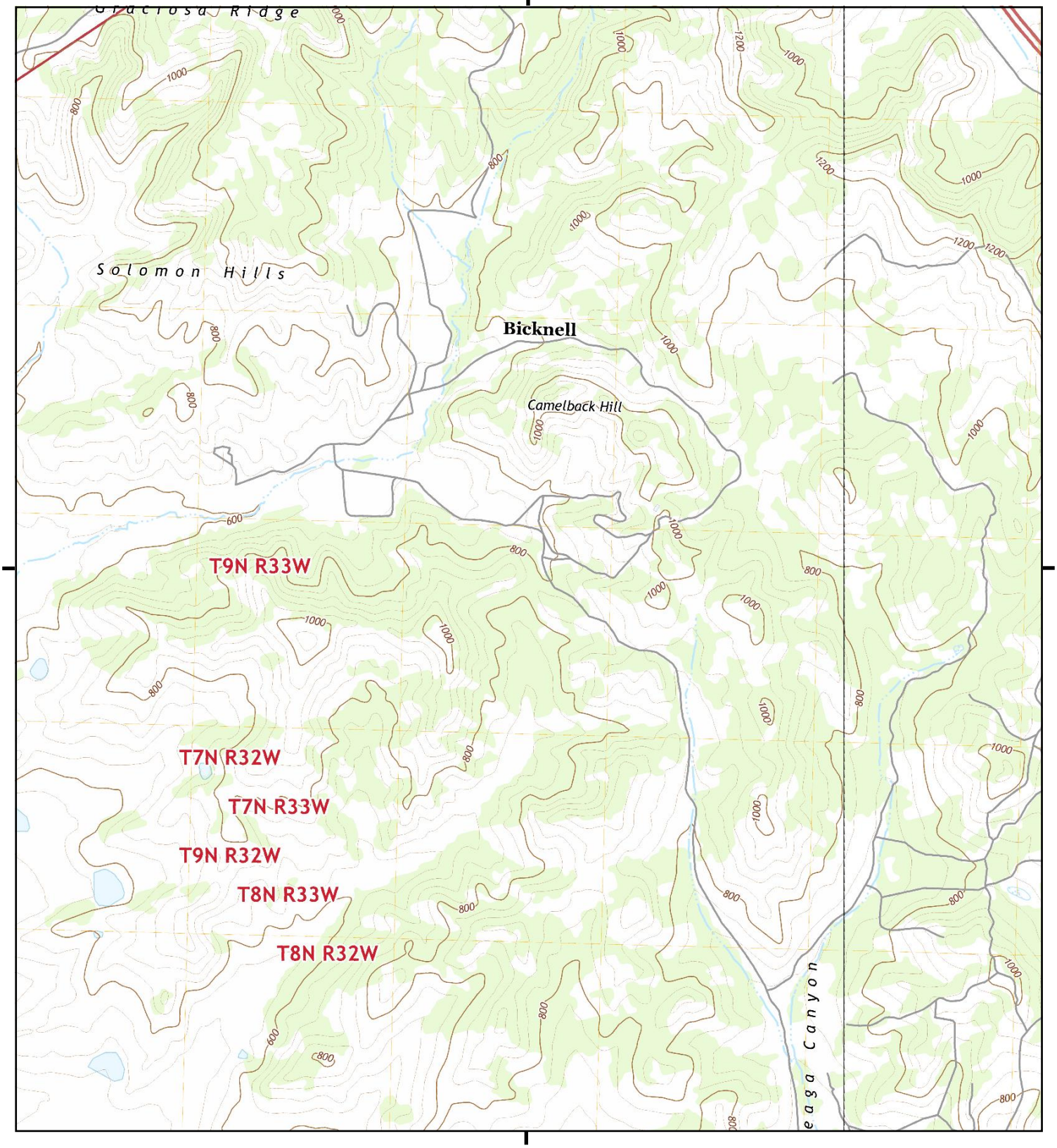
TP, Orcutt, 2021, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2021



This report includes information from the following map sheet(s).

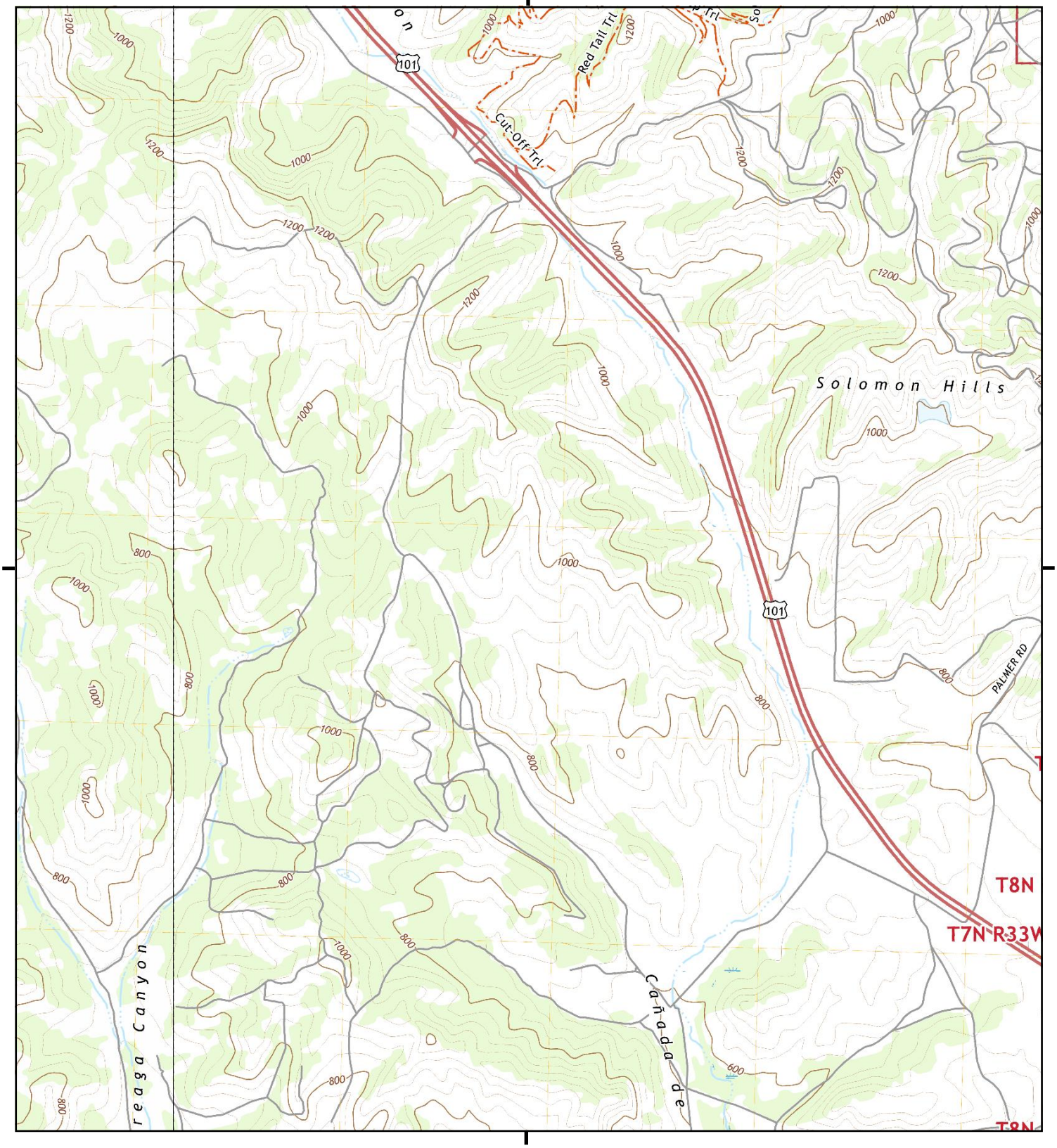
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 2021, 7.5-minute
E, Sisquoc, 2021, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

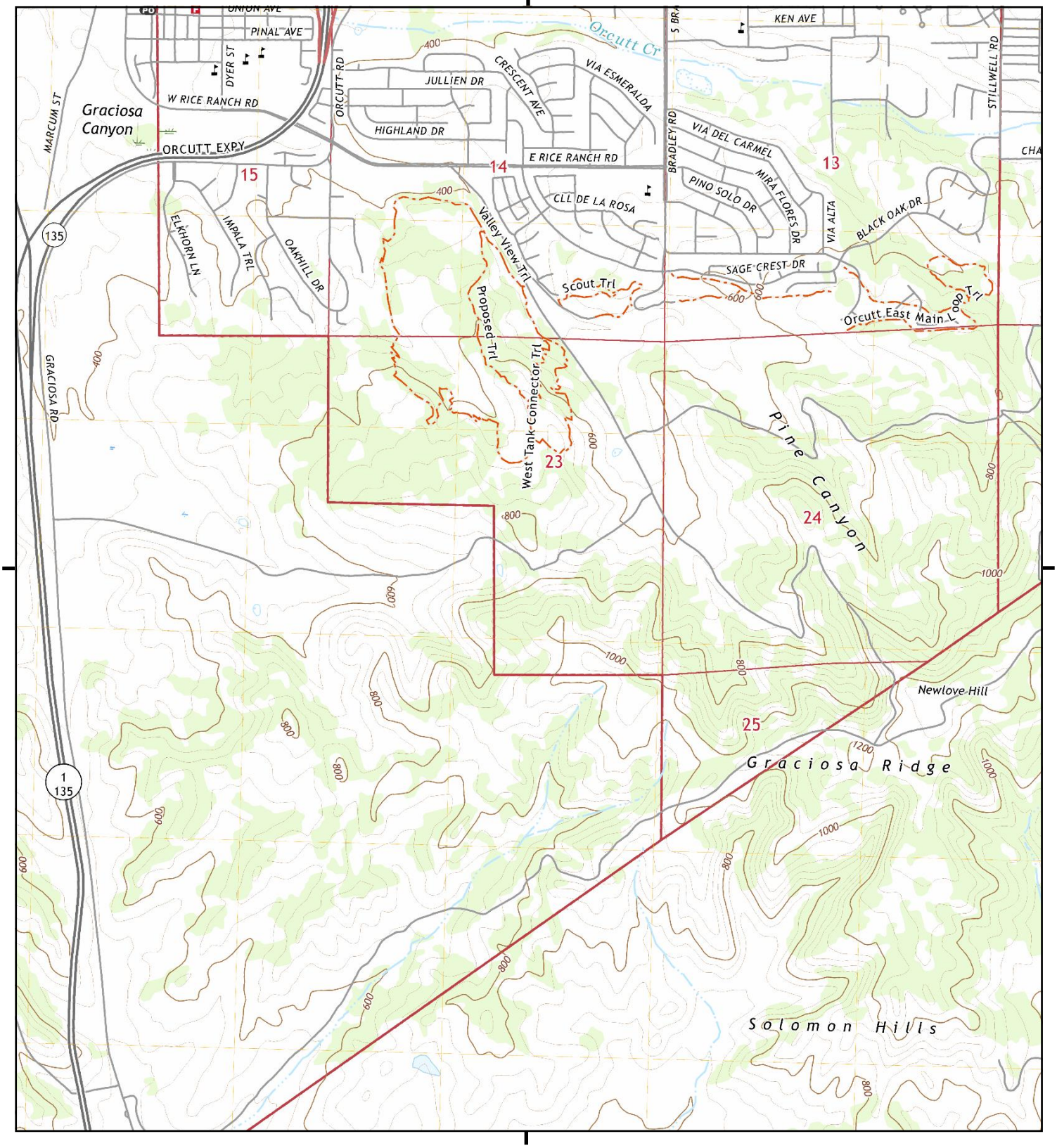
TP, Sisquoc, 2021, 7.5-minute
W, Orcutt, 2021, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

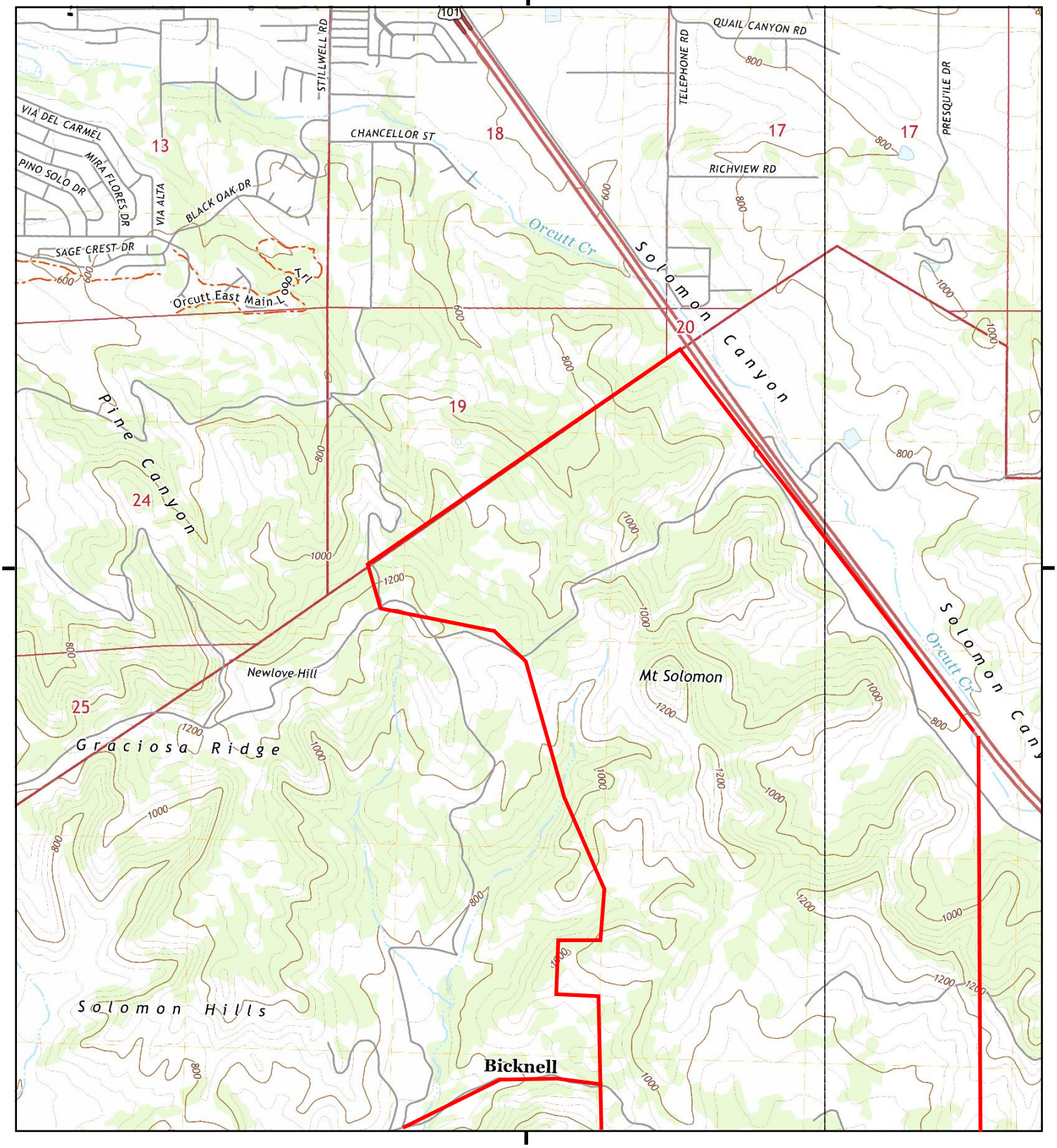
TP, Orcutt, 2021, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2021



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

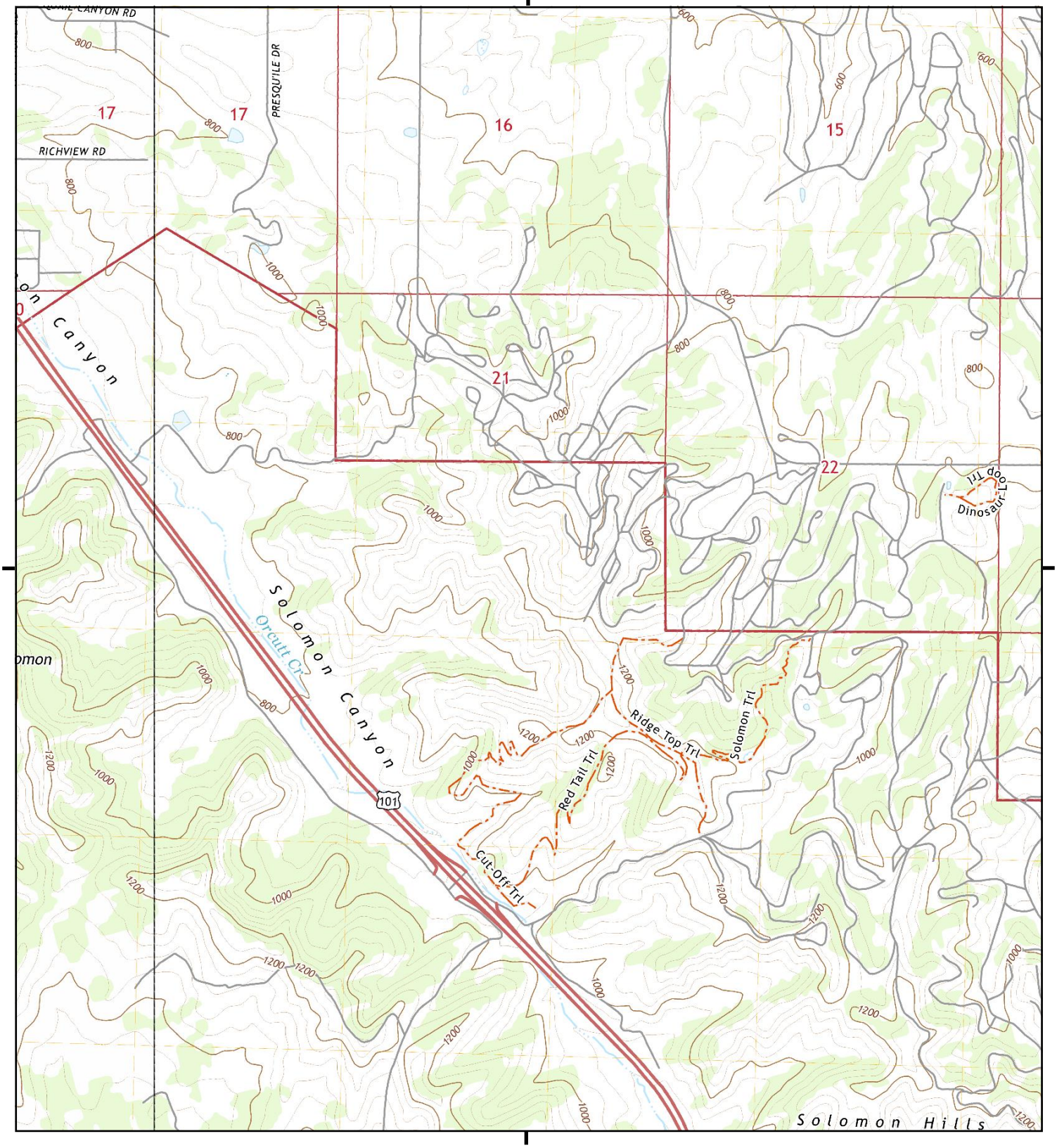
TP, Orcutt, 2021, 7.5-minute
SE, Sisquoc, 2021, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

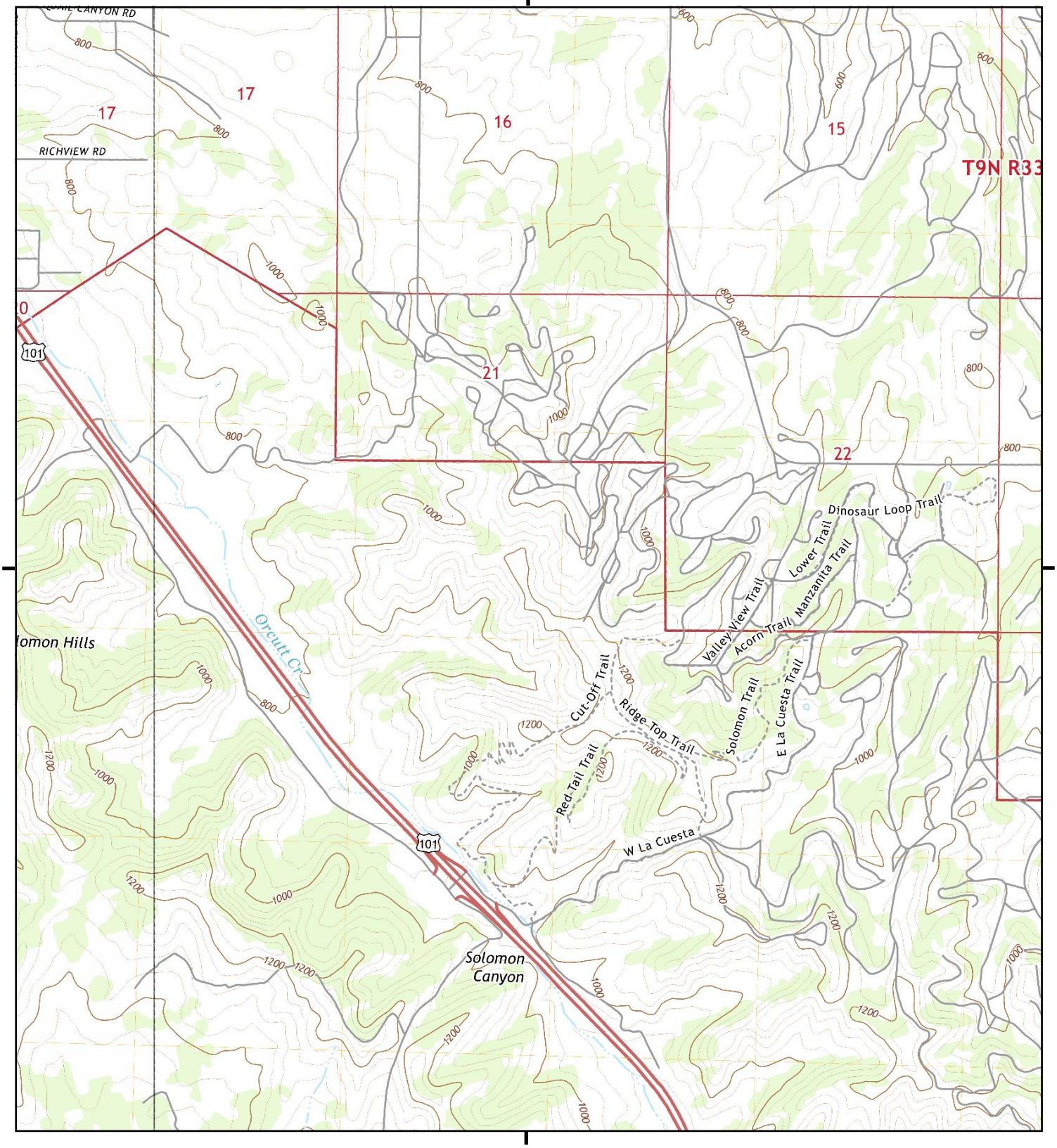
TP, Sisquoc, 2021, 7.5-minute
W, Orcutt, 2021, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2018



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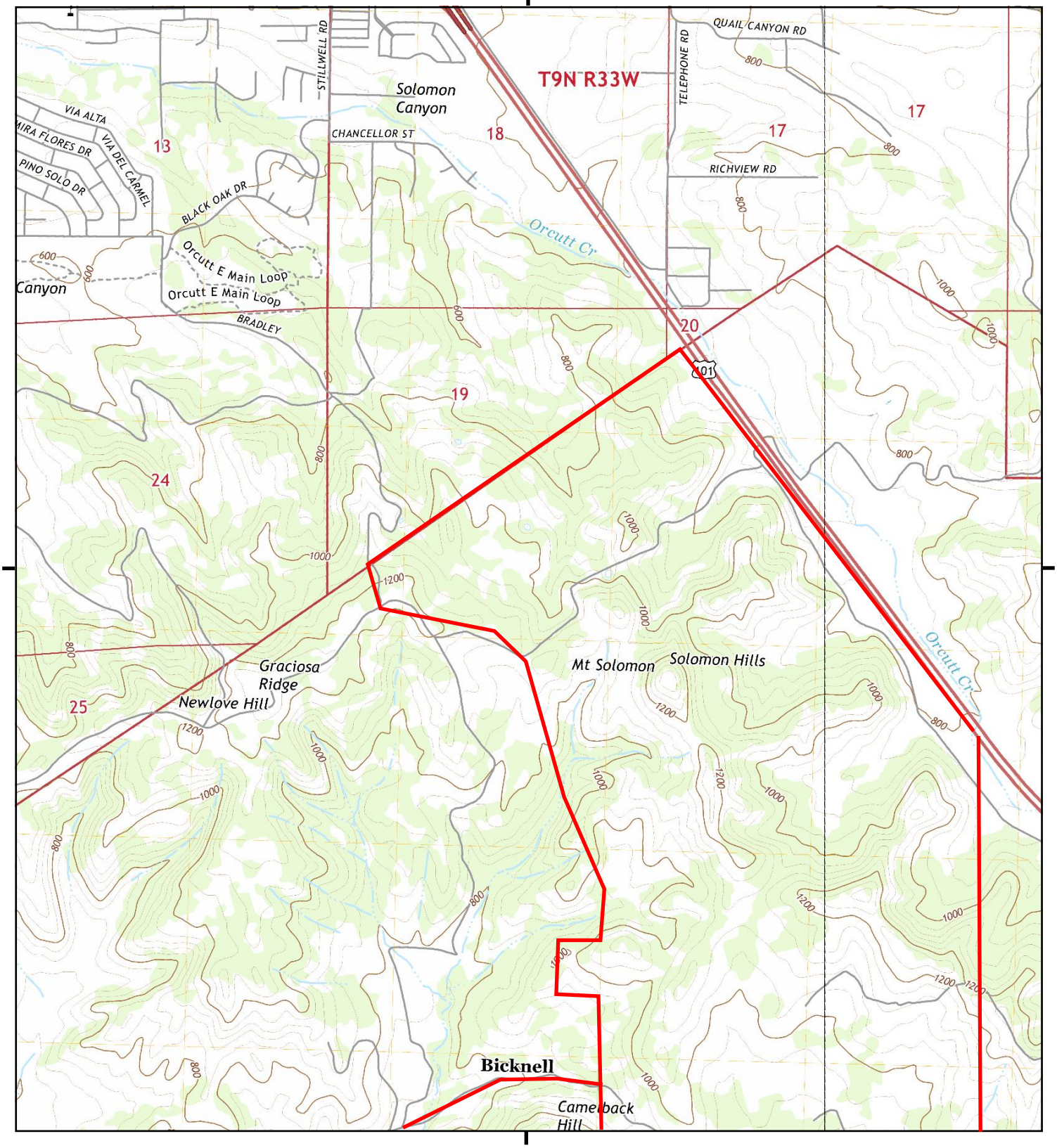
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Sisquoc, 2018, 7.5-minute
W, Orcutt, 2018, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

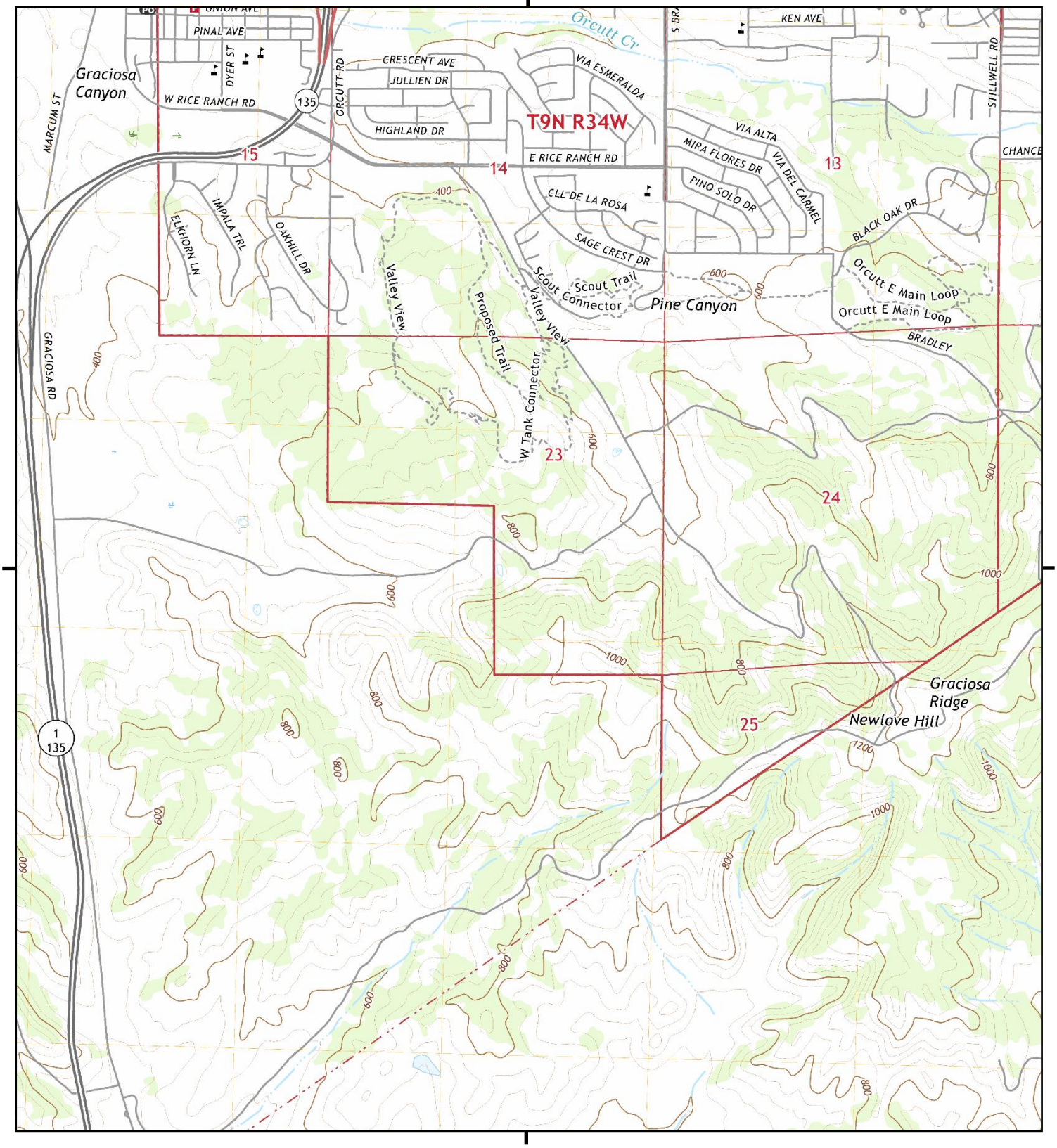
TP, Orcutt, 2018, 7.5-minute
SE, Sisquoc, 2018, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

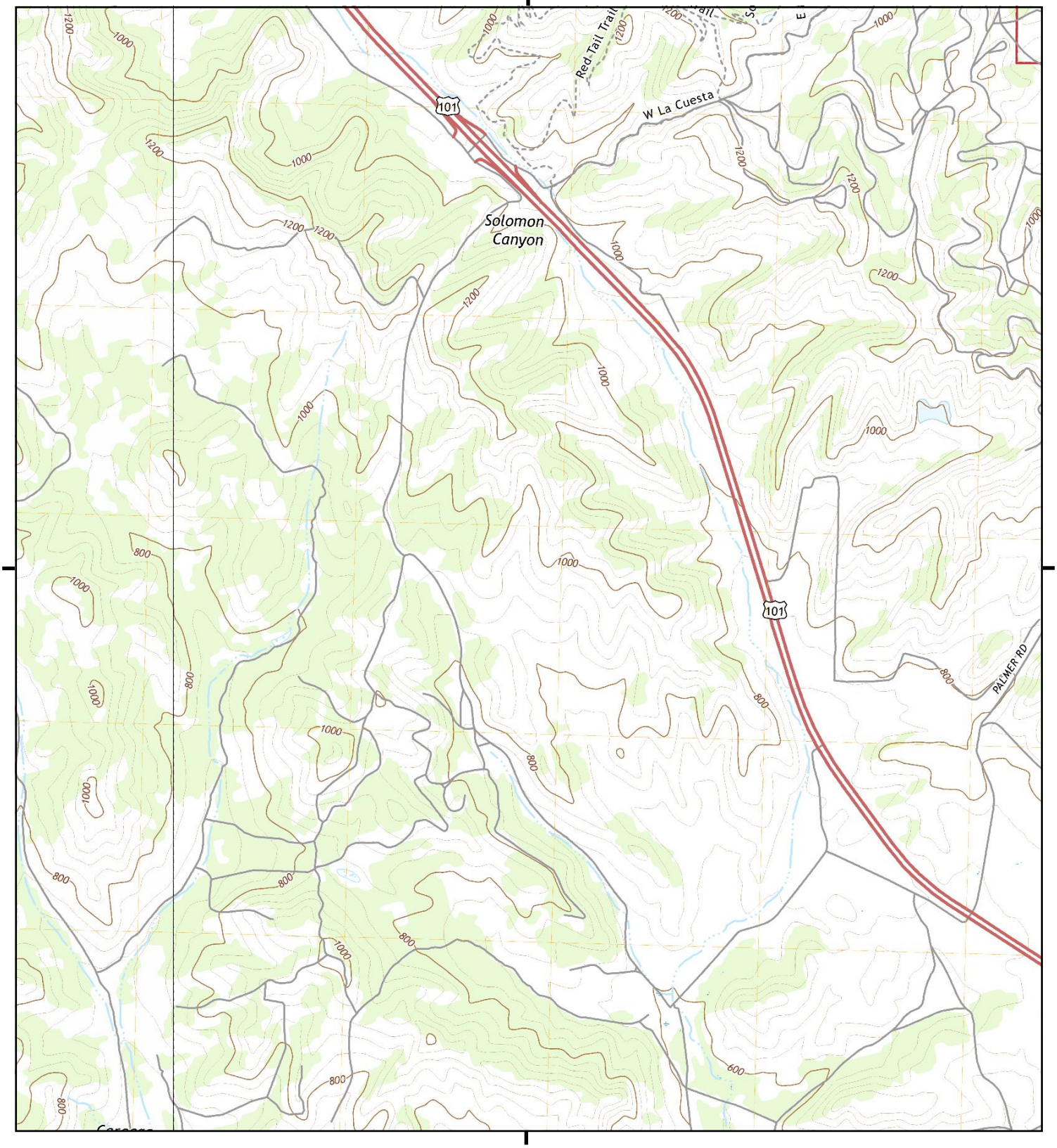
TP, Orcutt, 2018, 7.5-minute

SITE NAME: Solomon Hills Phase I
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Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

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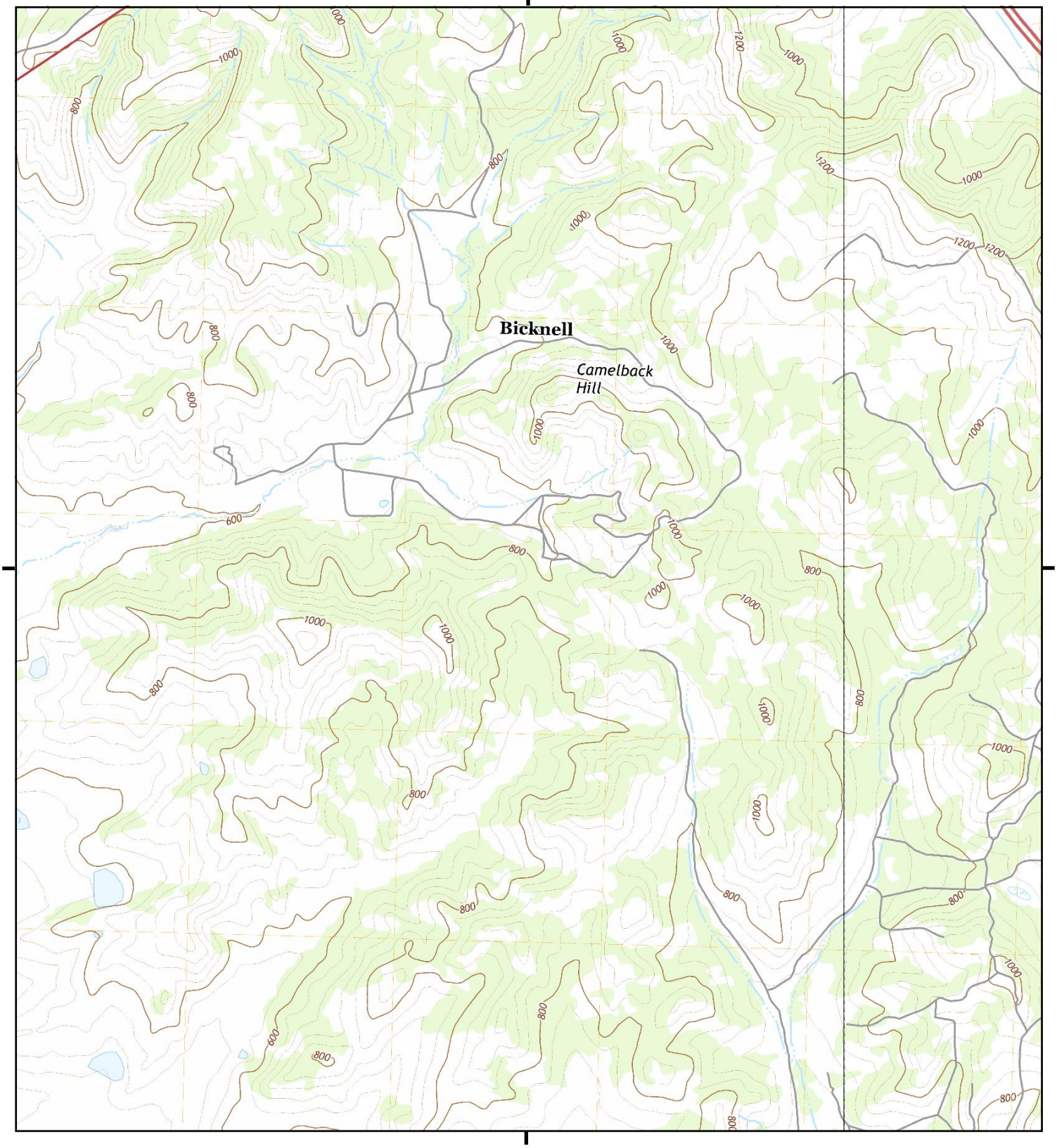
TP, Sisquoc, 2018, 7.5-minute
W, Orcutt, 2018, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
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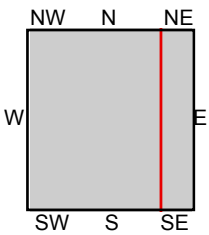
Historical Topo Map

2018



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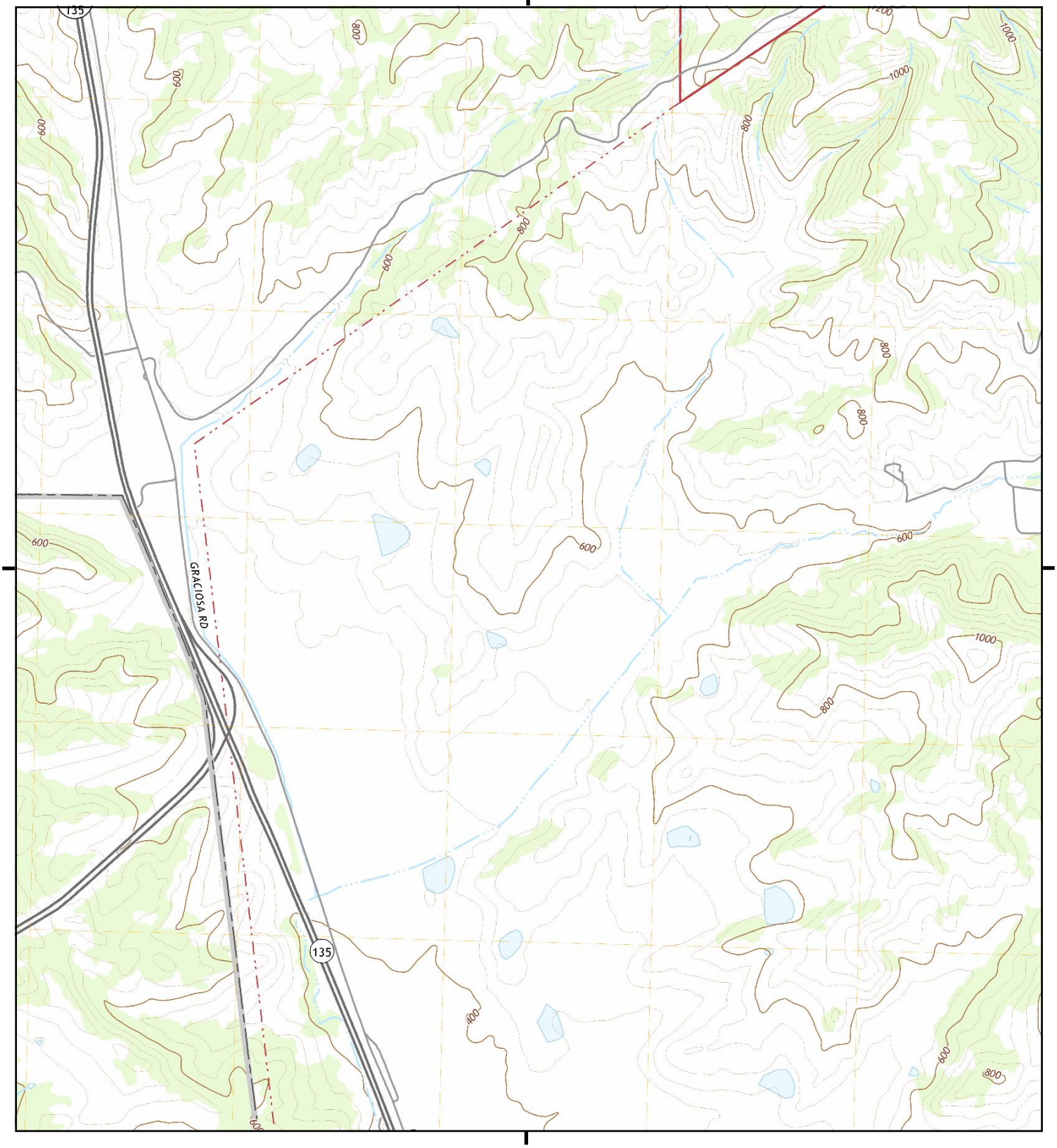
TP, Orcutt, 2018, 7.5-minute
E, Sisquoc, 2018, 7.5-minute

SITE NAME: Solomon Hills Phase I
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Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

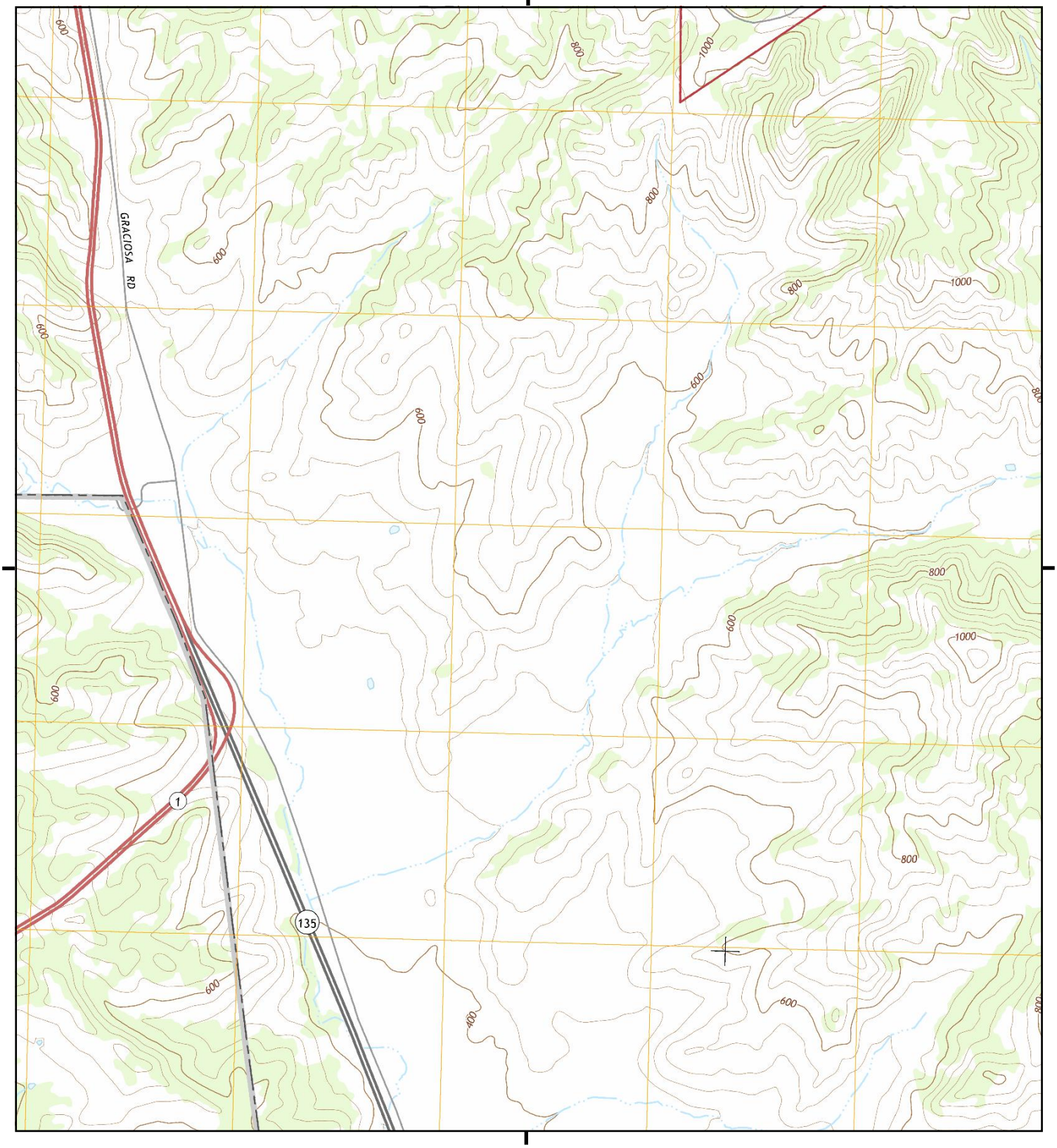
TP, Orcutt, 2018, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
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CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

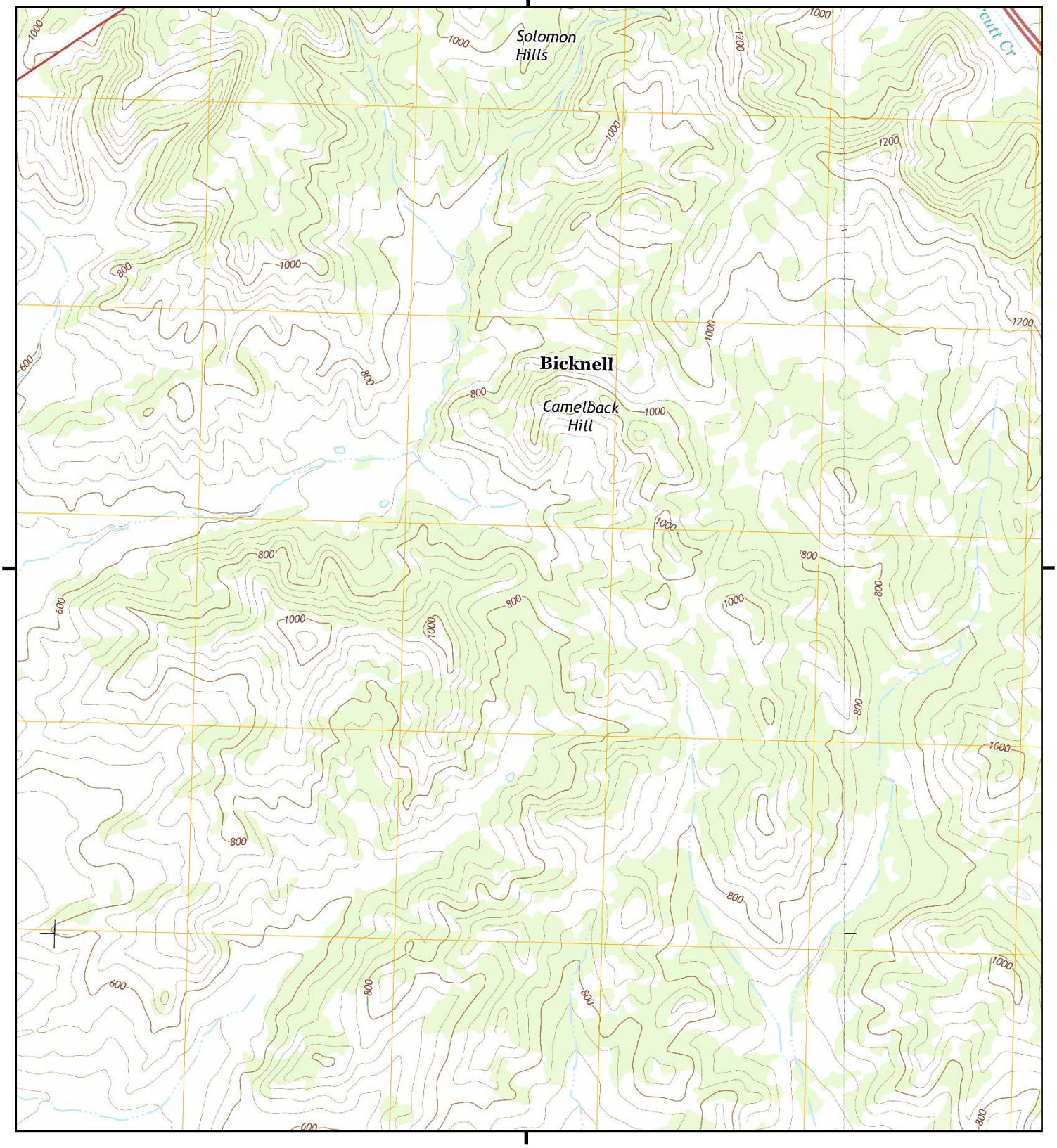
TP, Orcutt, 2015, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

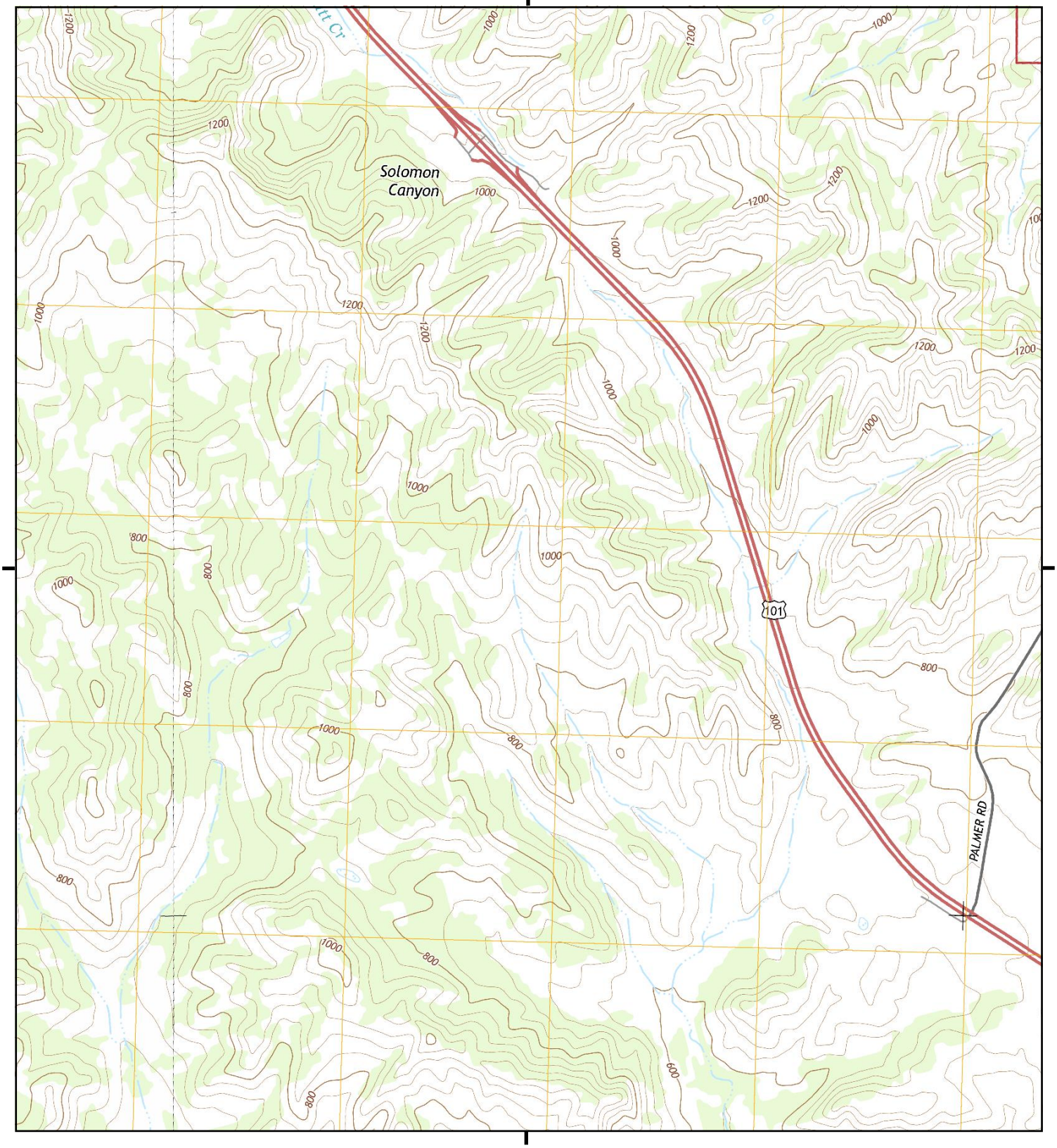
TP, Orcutt, 2015, 7.5-minute
E, Sisquoc, 2015, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

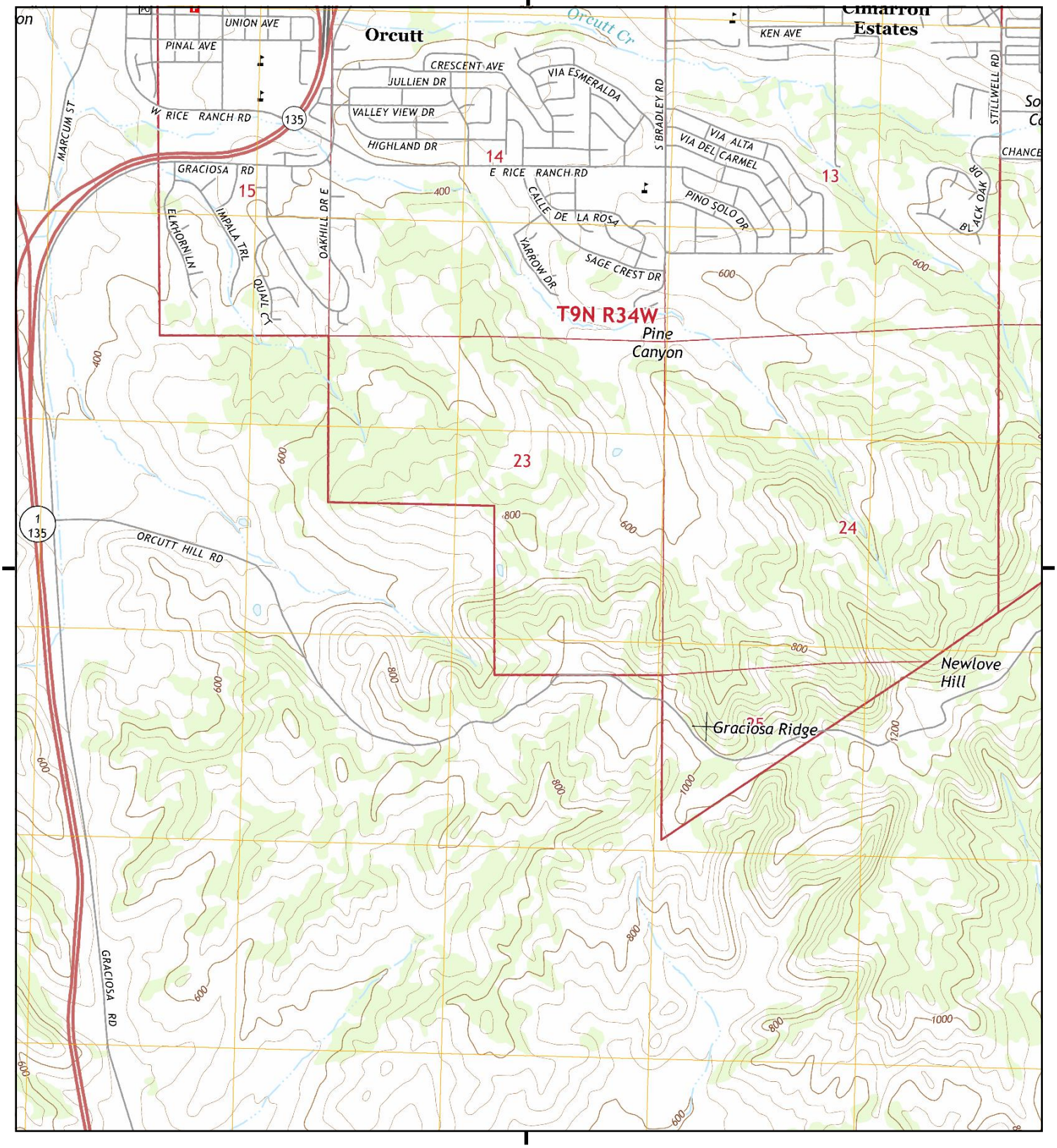
TP, Sisquoc, 2015, 7.5-minute
W, Orcutt, 2015, 7.5-minute

SITE NAME: Solomon Hills Phase I
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Historical Topo Map

2015



This report includes information from the following map sheet(s).

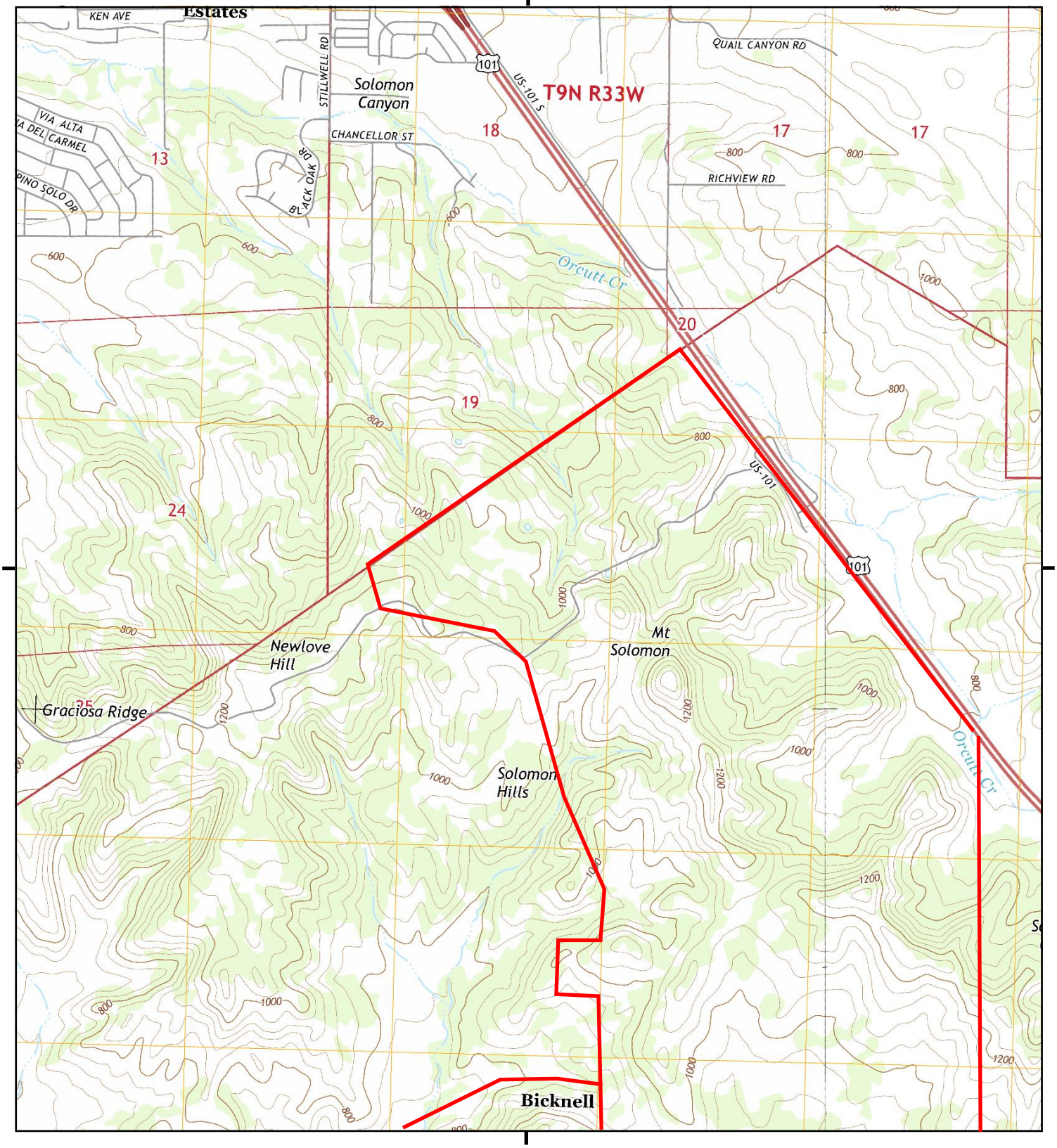
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 2015, 7.5-minute

SITE NAME: Solomon Hills Phase I
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This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
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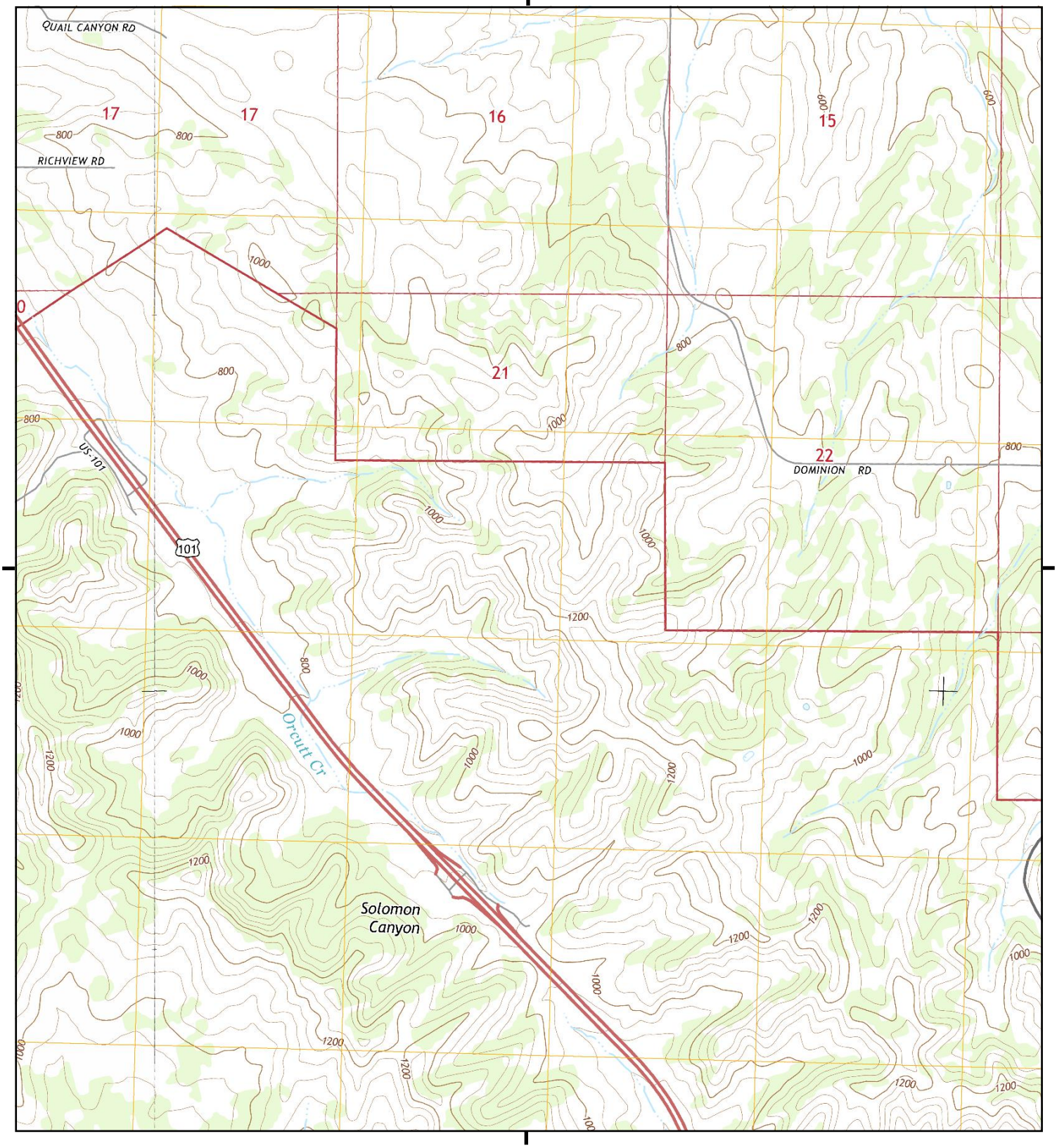
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Historical Topo Map

2015



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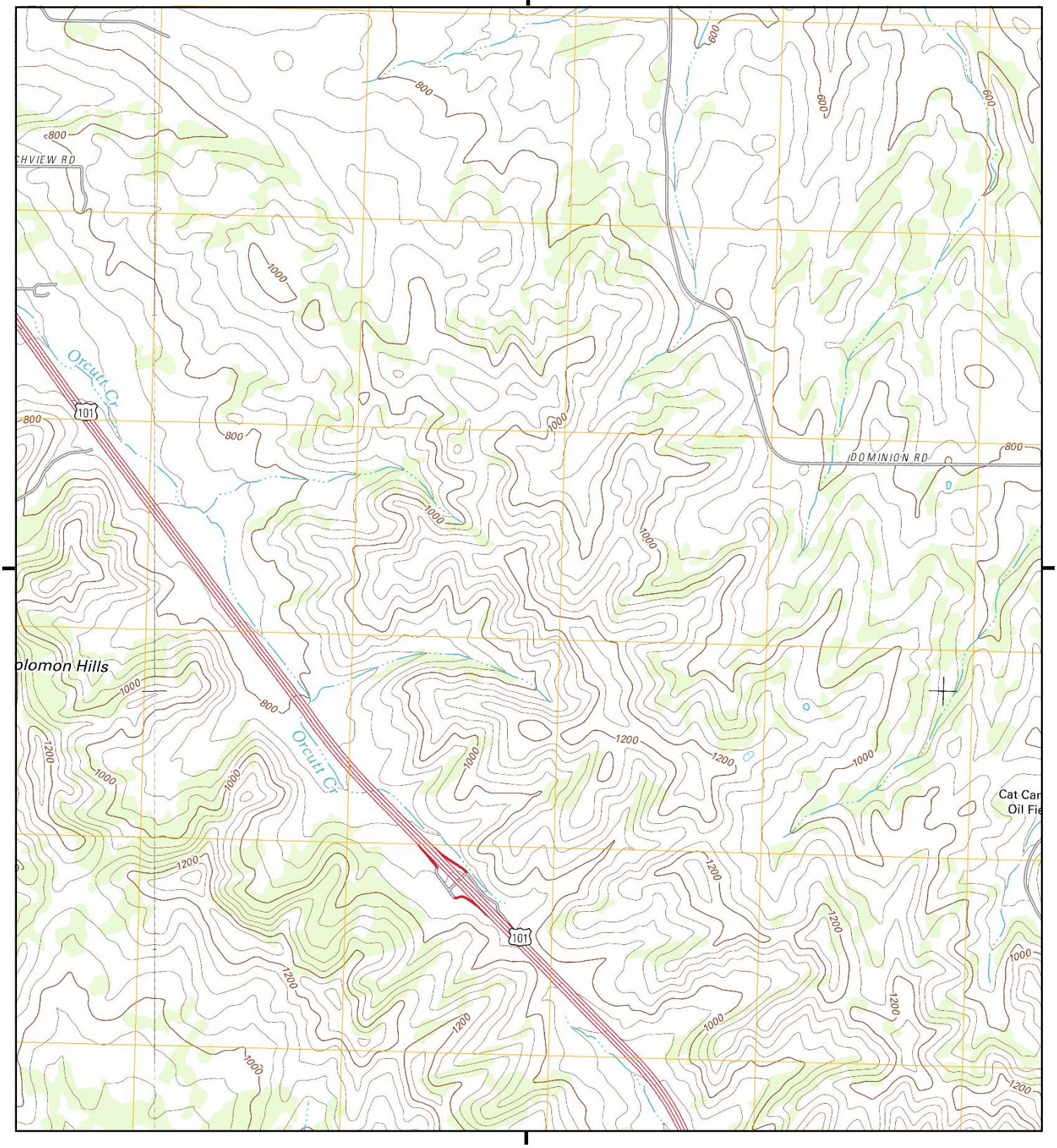
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Sisquoc, 2015, 7.5-minute
W, Orcutt, 2015, 7.5-minute

SITE NAME: Solomon Hills Phase I
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This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

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SW S SE

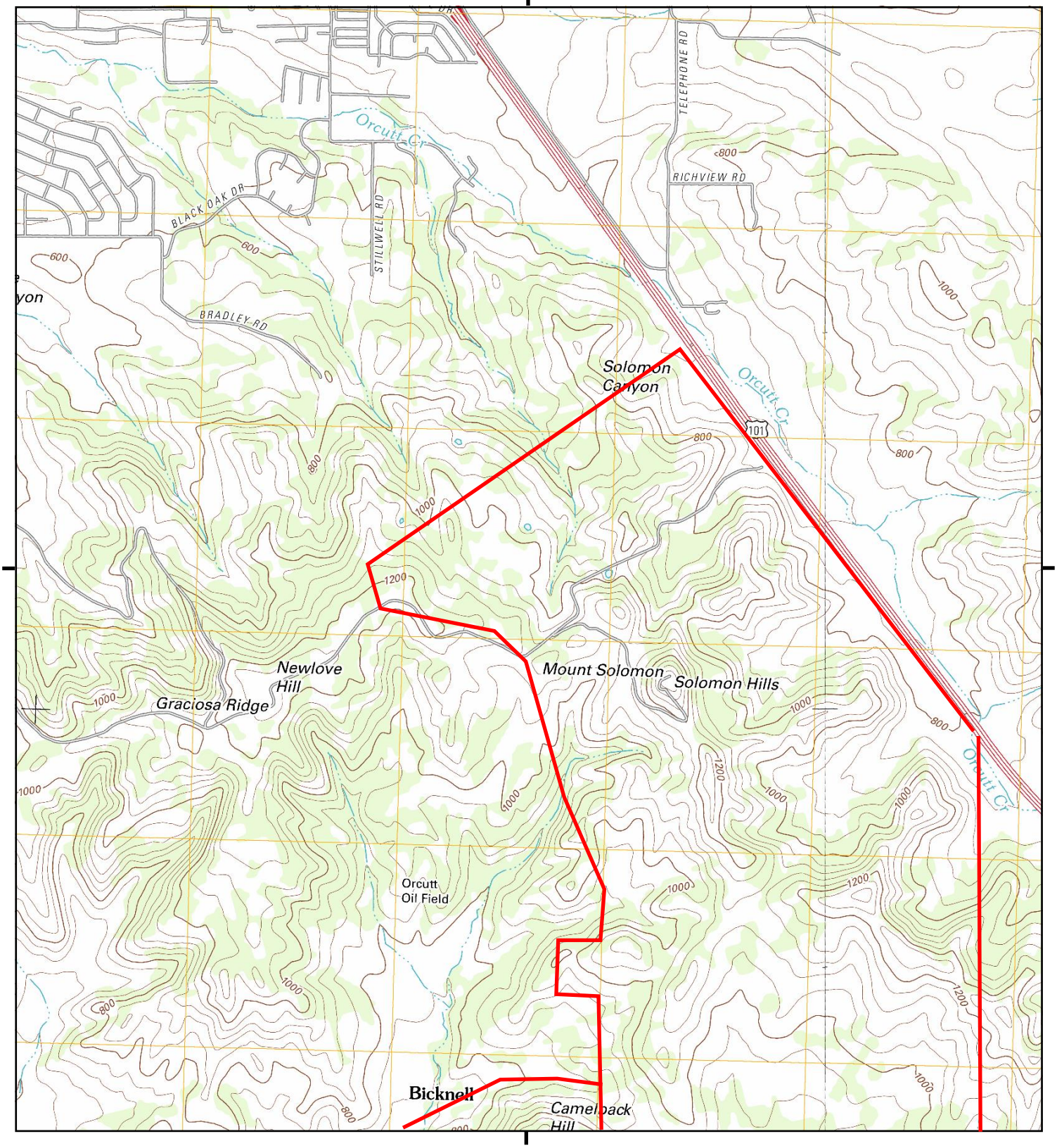
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W, Orcutt, 2012, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

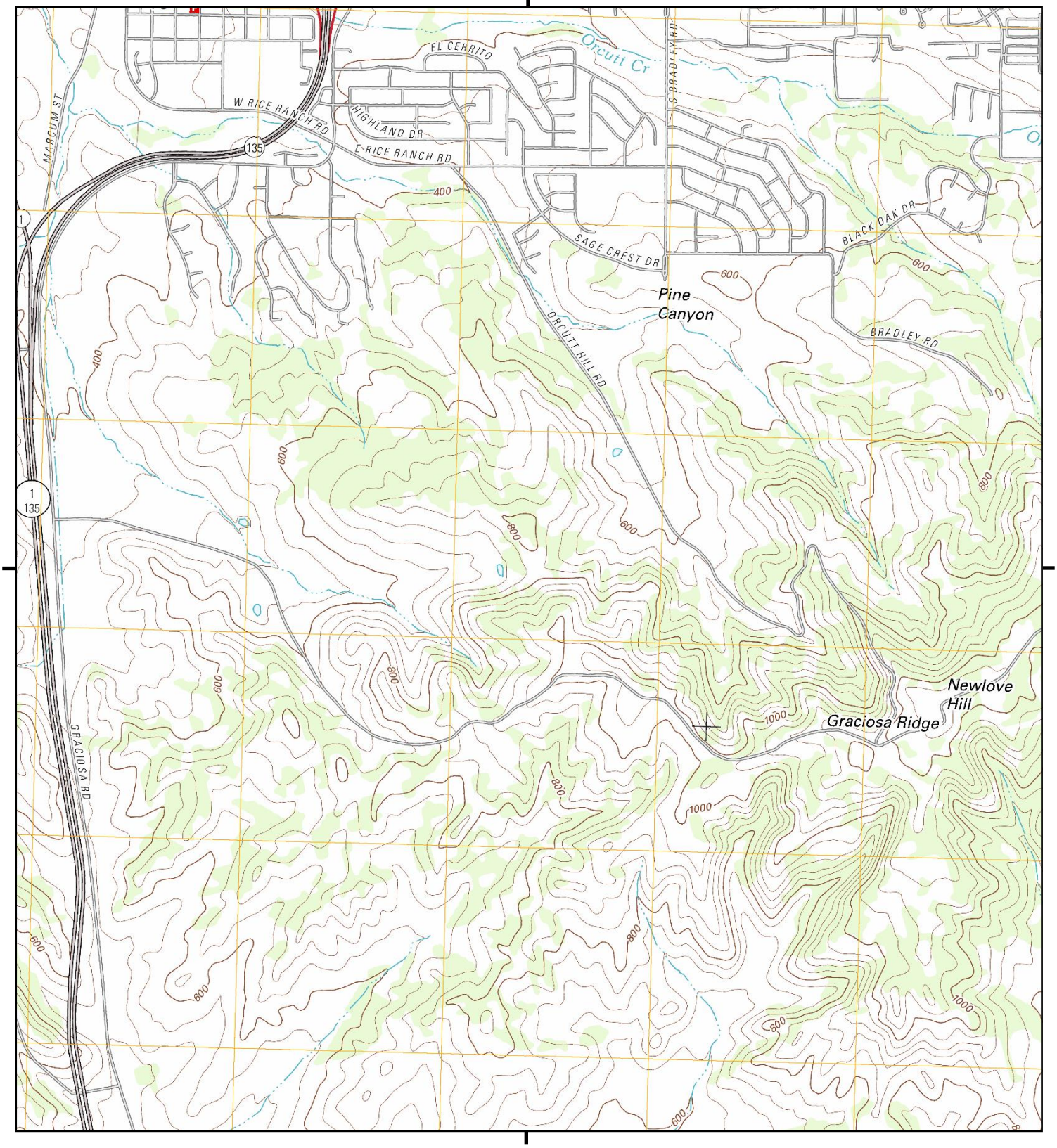
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 2012, 7.5-minute
SE, Sisquoc, 2012, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



This report includes information from the following map sheet(s).

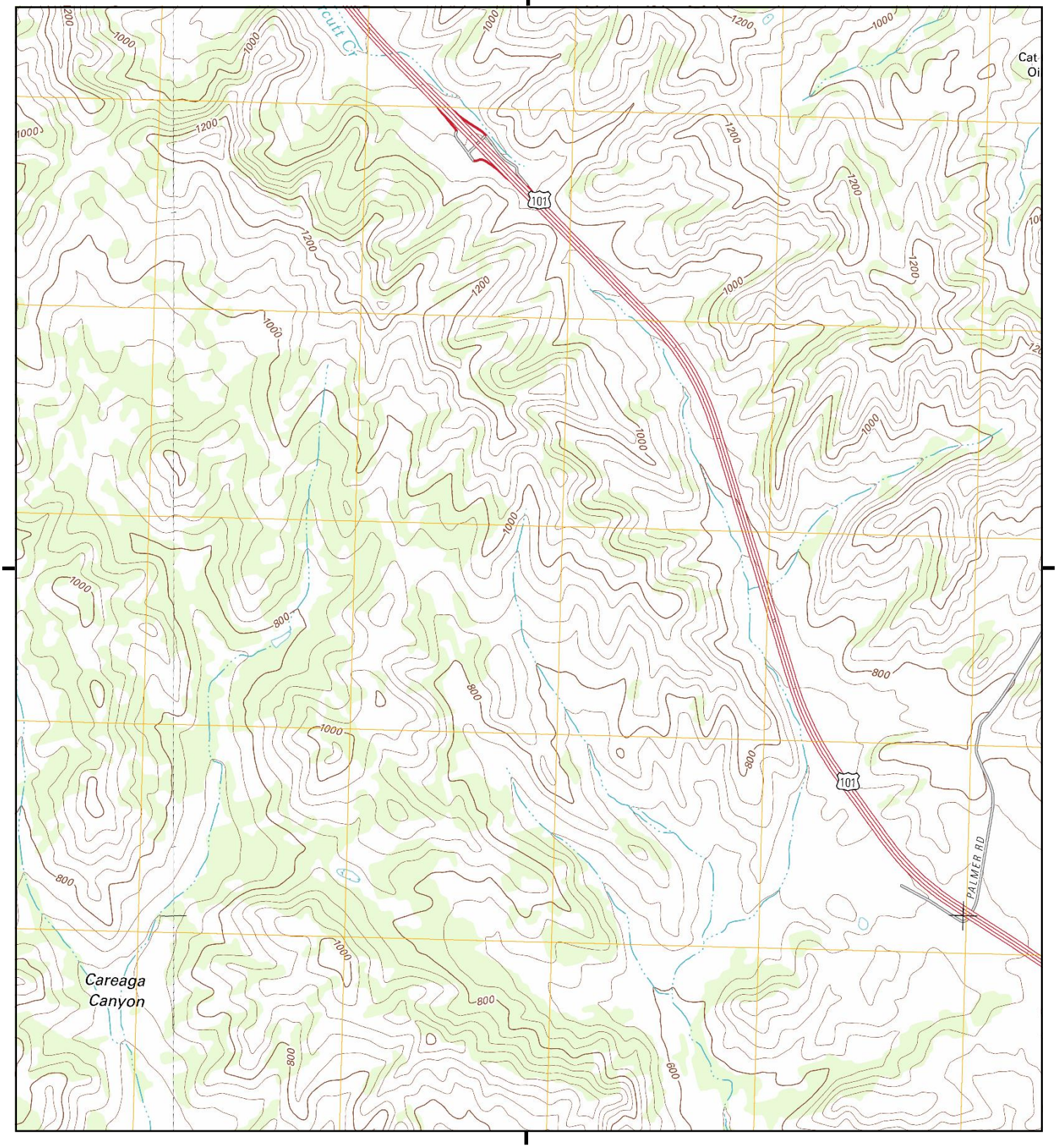
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 2012, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
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This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

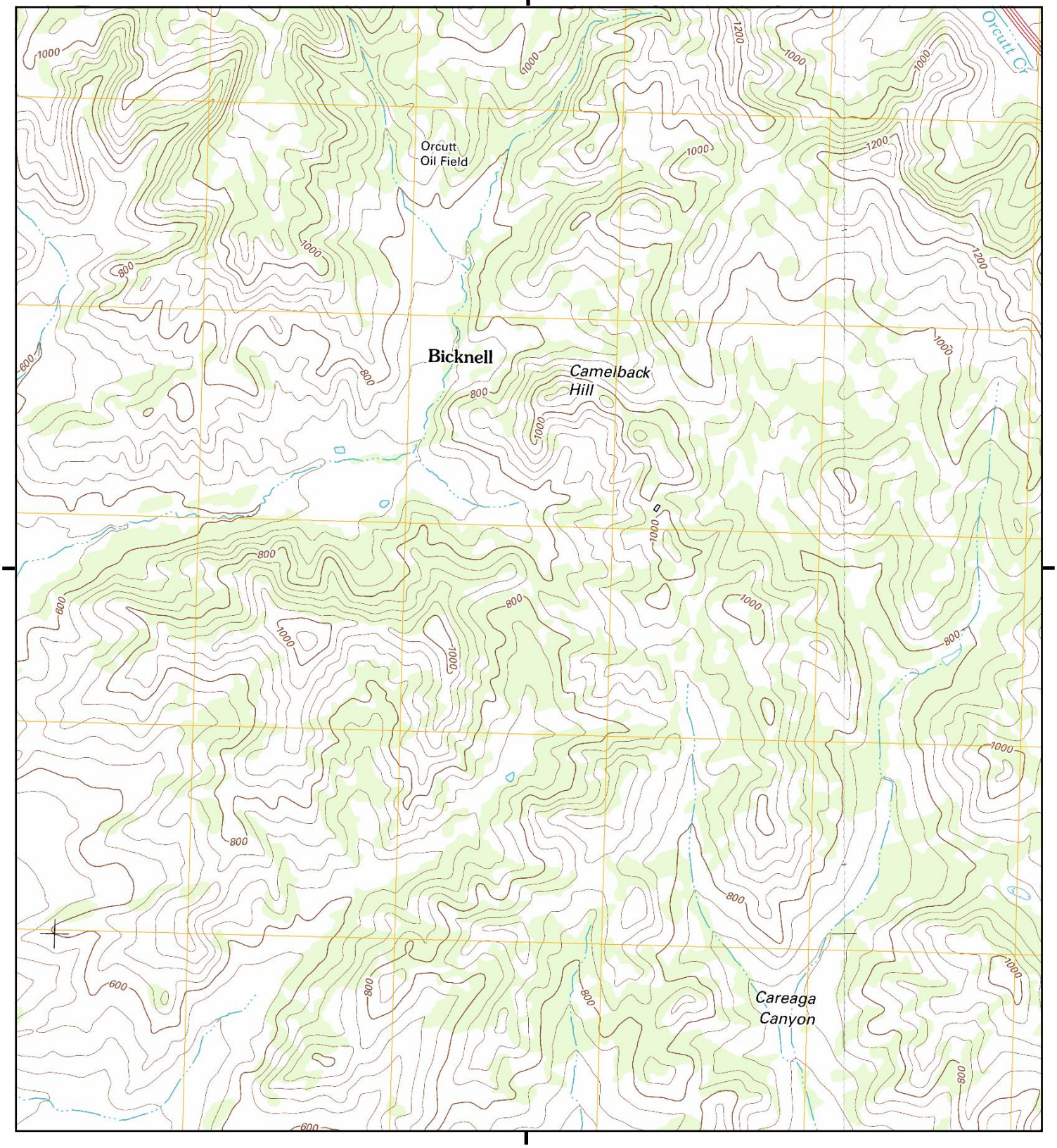
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W, Orcutt, 2012, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
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Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

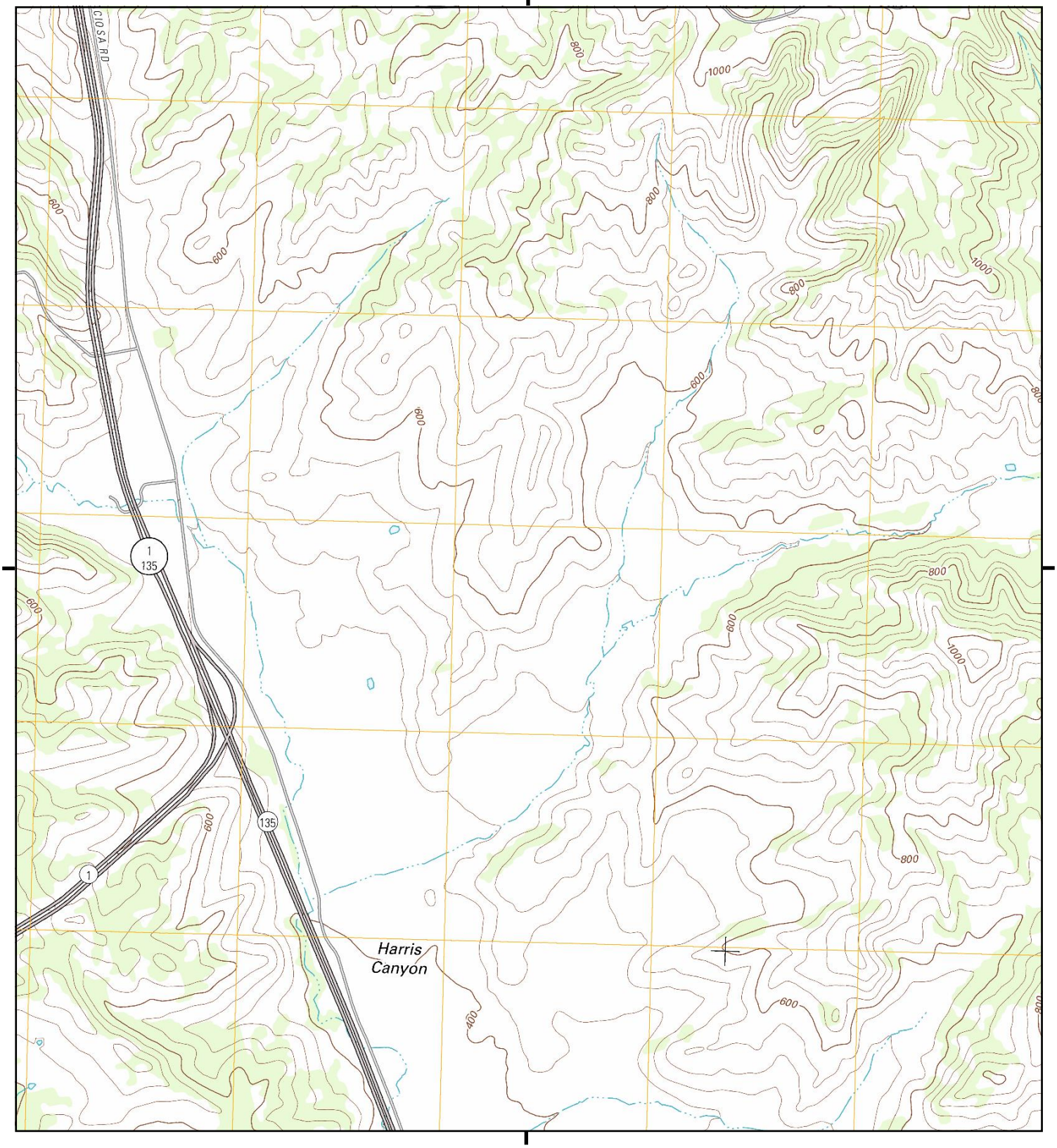
TP, Orcutt, 2012, 7.5-minute
E, Sisquoc, 2012, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

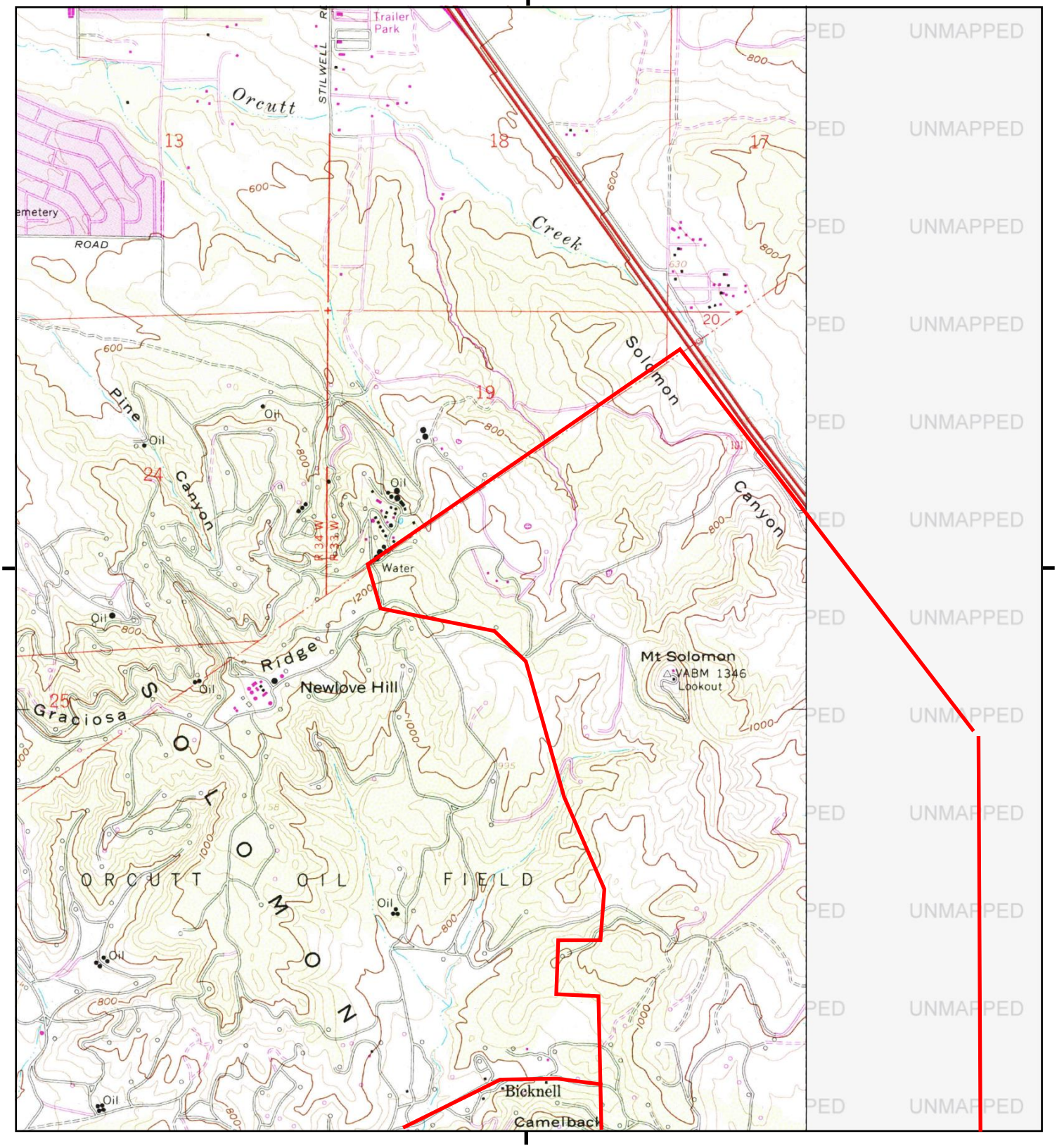
TP, Orcutt, 2012, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

1978



This report includes information from the following map sheet(s).

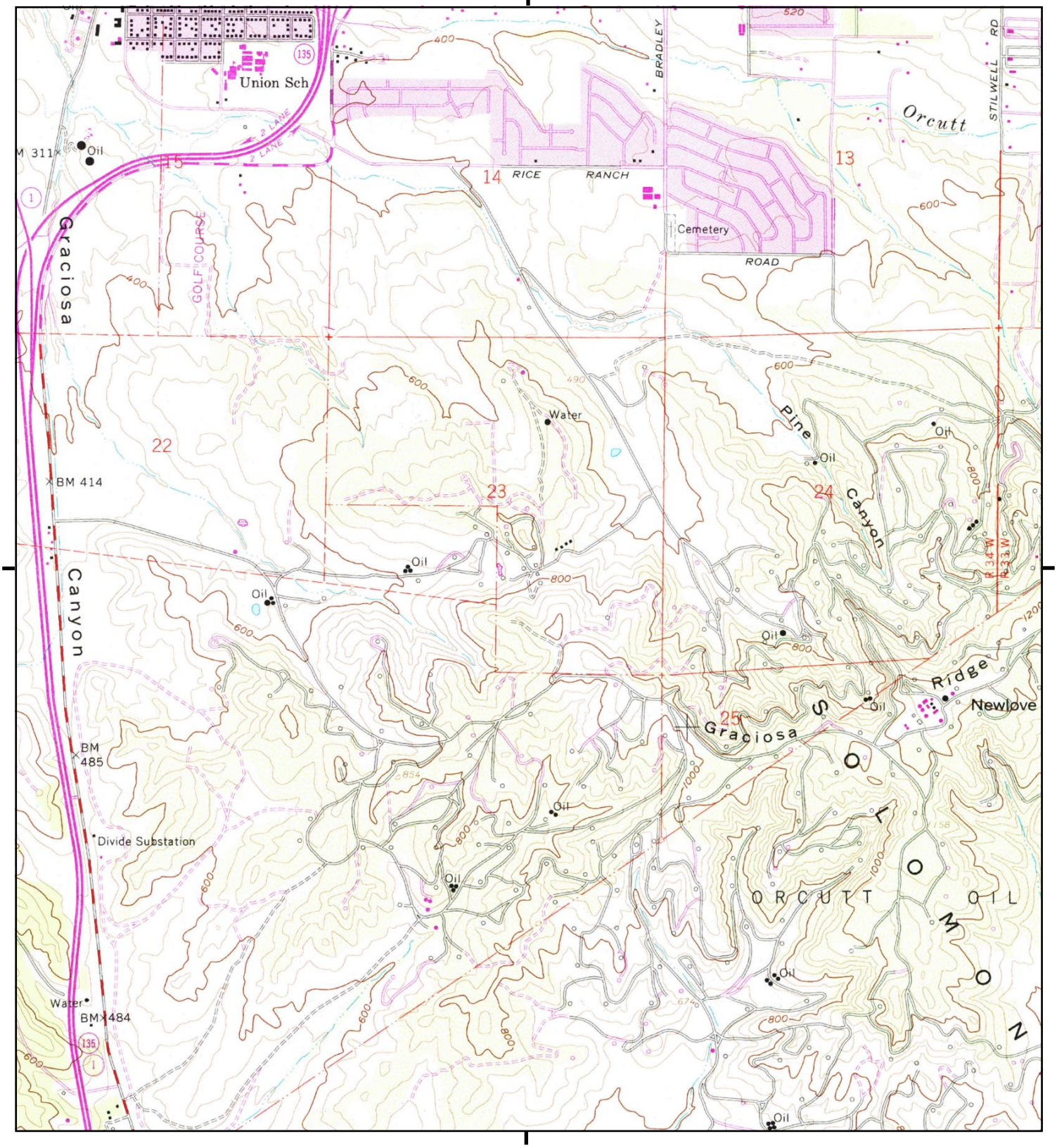
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1978, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



This report includes information from the following map sheet(s).

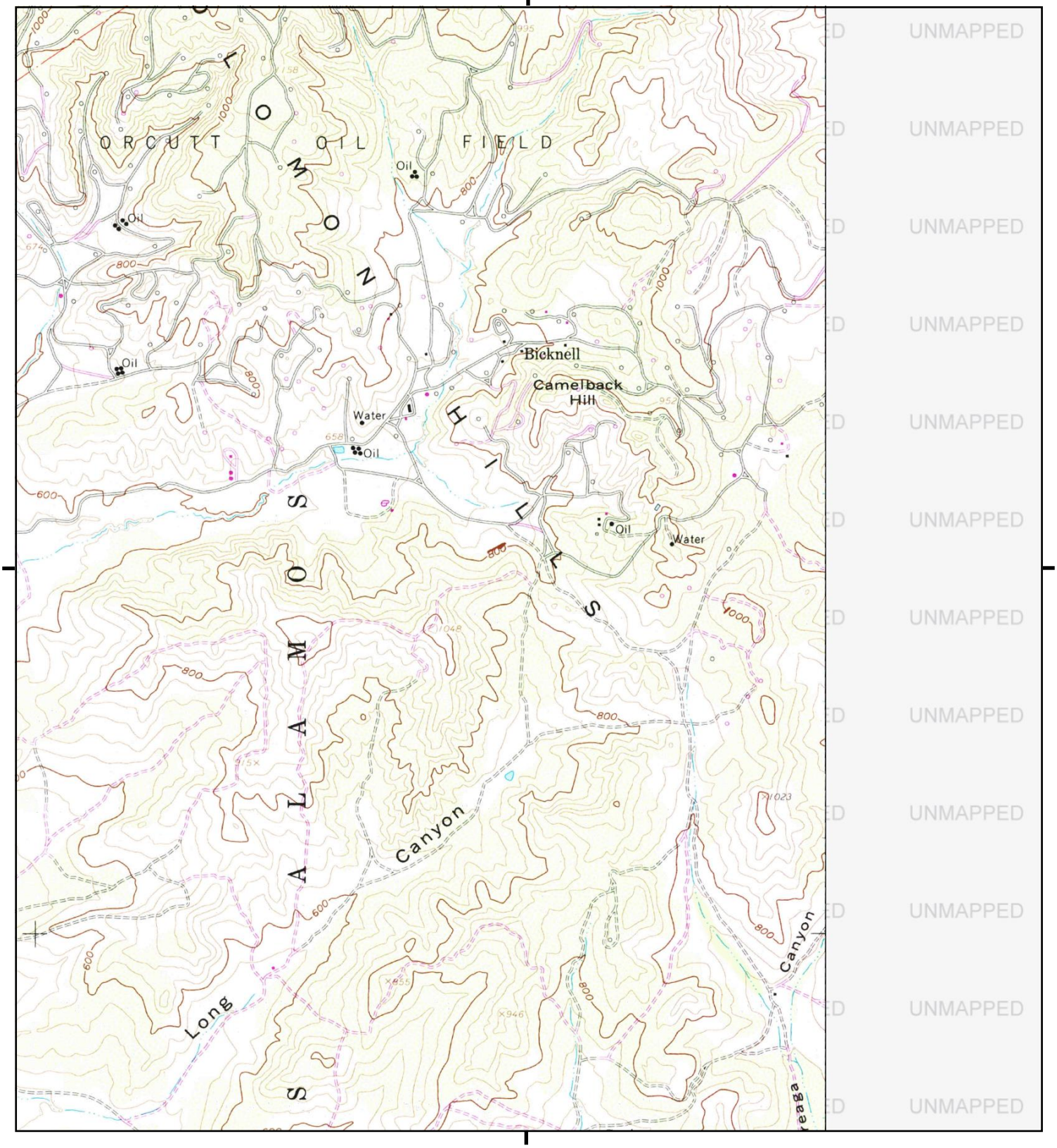
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1978, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



This report includes information from the following map sheet(s).

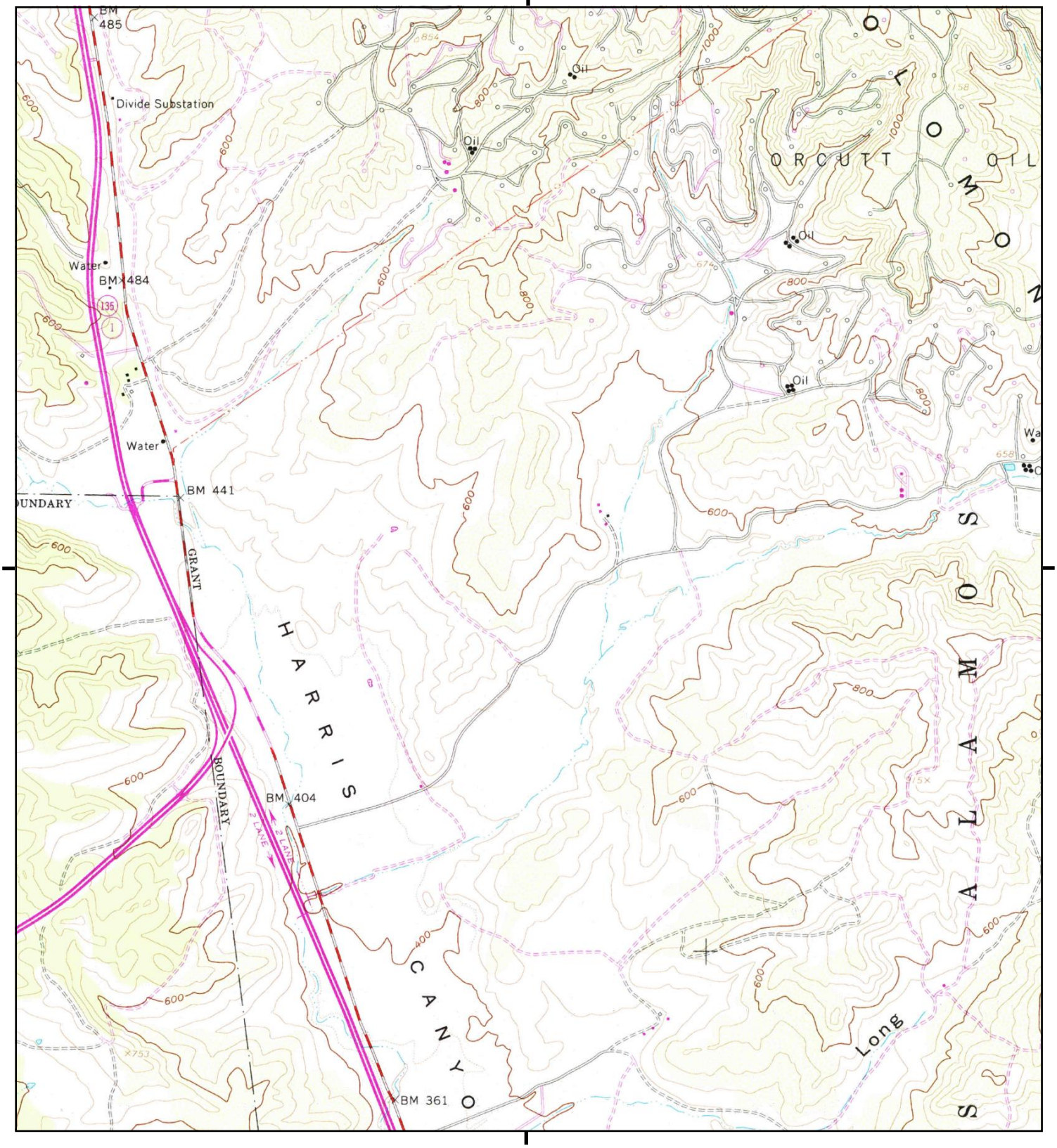
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1978, 7.5-minute

SITE NAME: Solomon Hills Phase I
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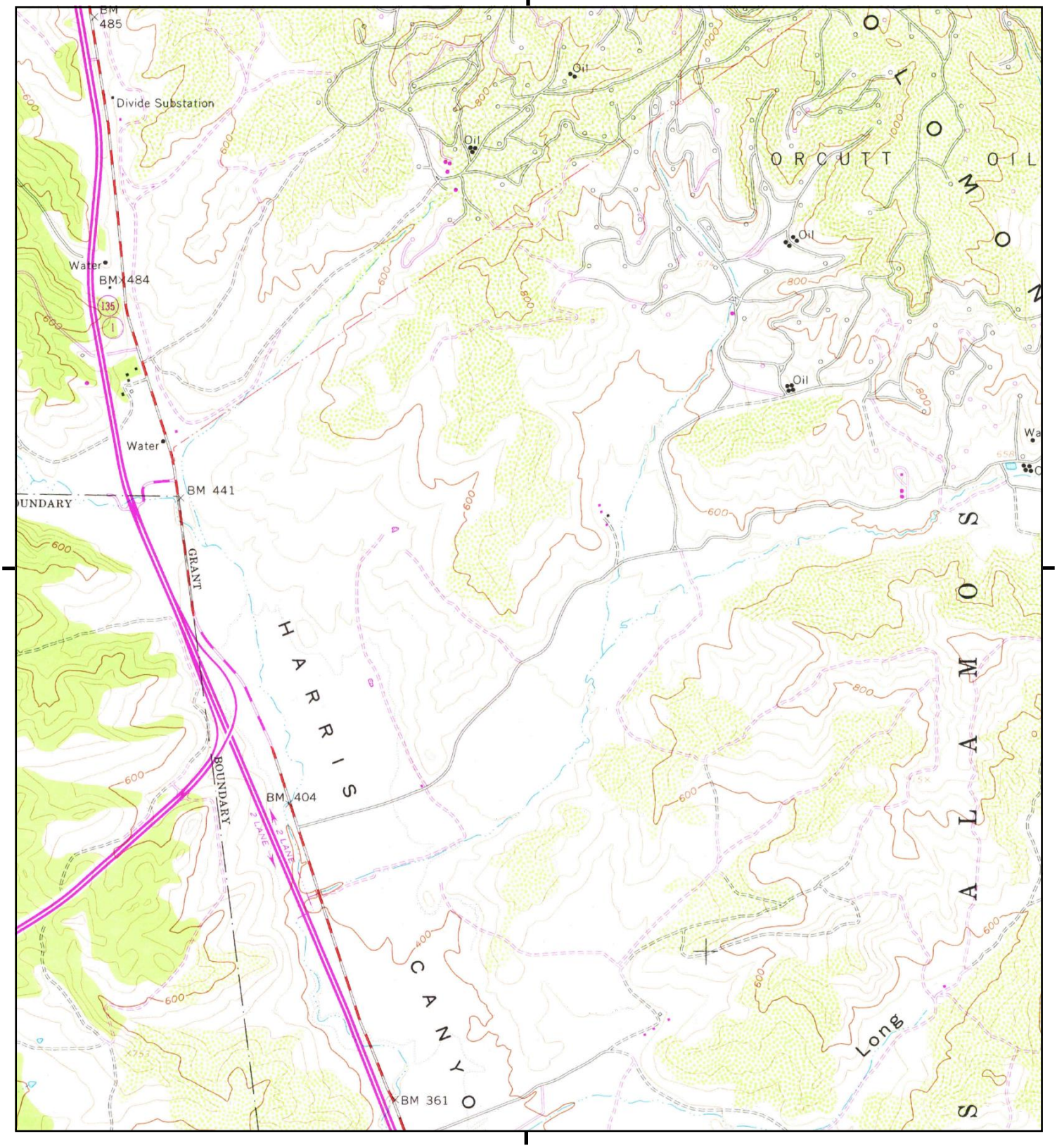
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
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TP, Orcutt, 1978, 7.5-minute

SITE NAME: Solomon Hills Phase I
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0 Miles 0.25 0.5 1 1.5

NW N NE
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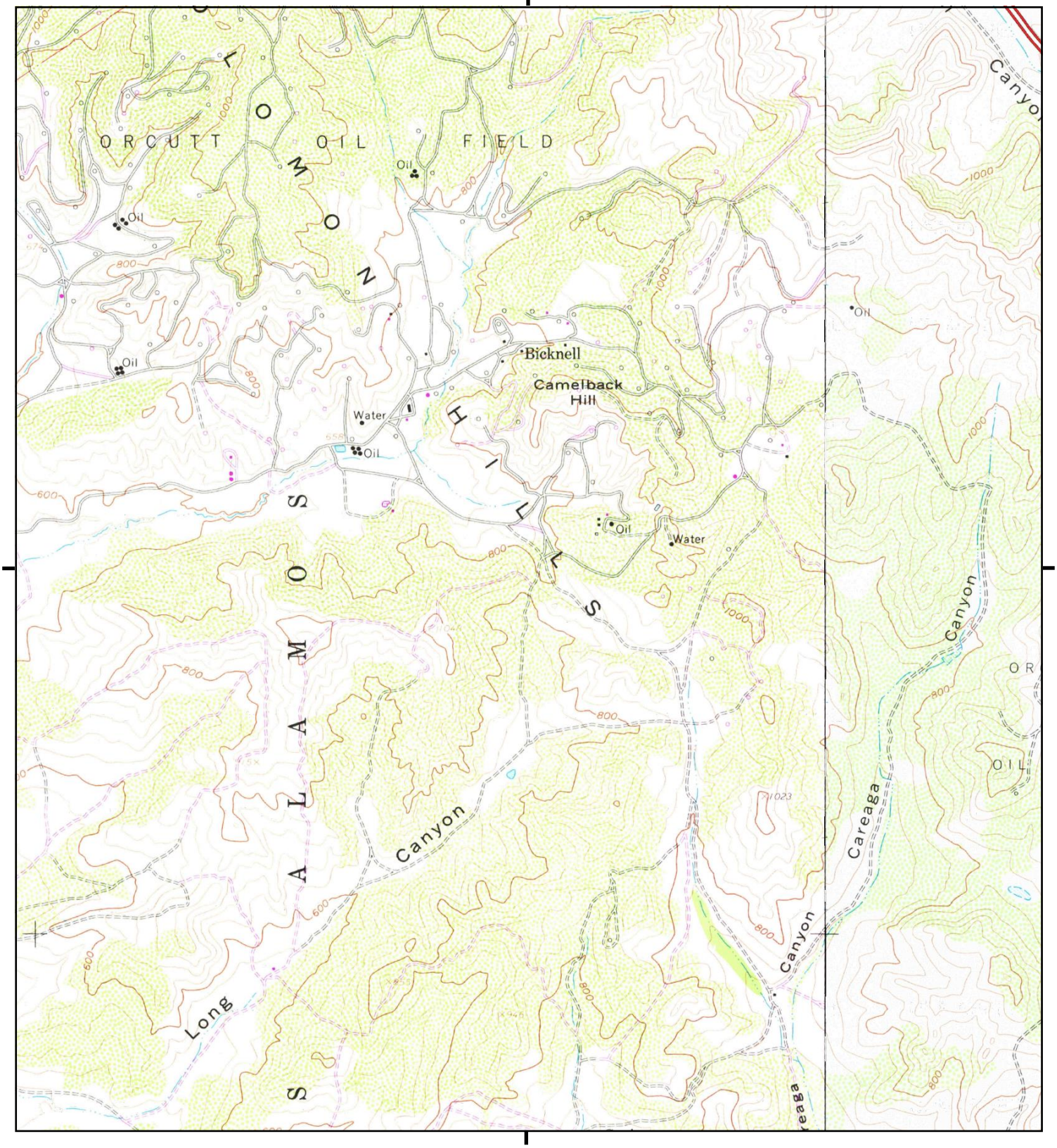
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SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

1974



This report includes information from the following map sheet(s).

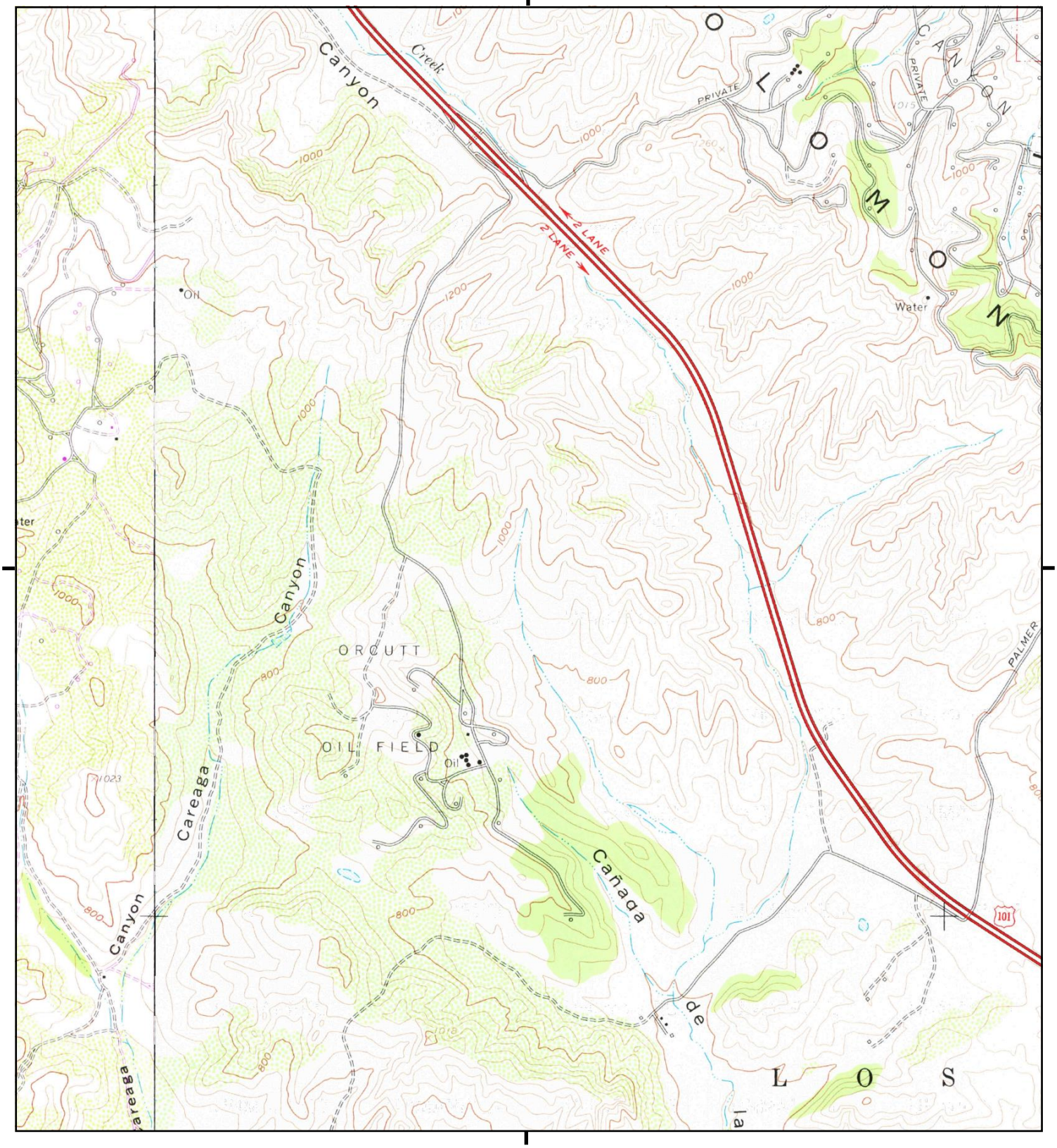
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1974, 7.5-minute
E, Sisquoc, 1974, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



This report includes information from the following map sheet(s).

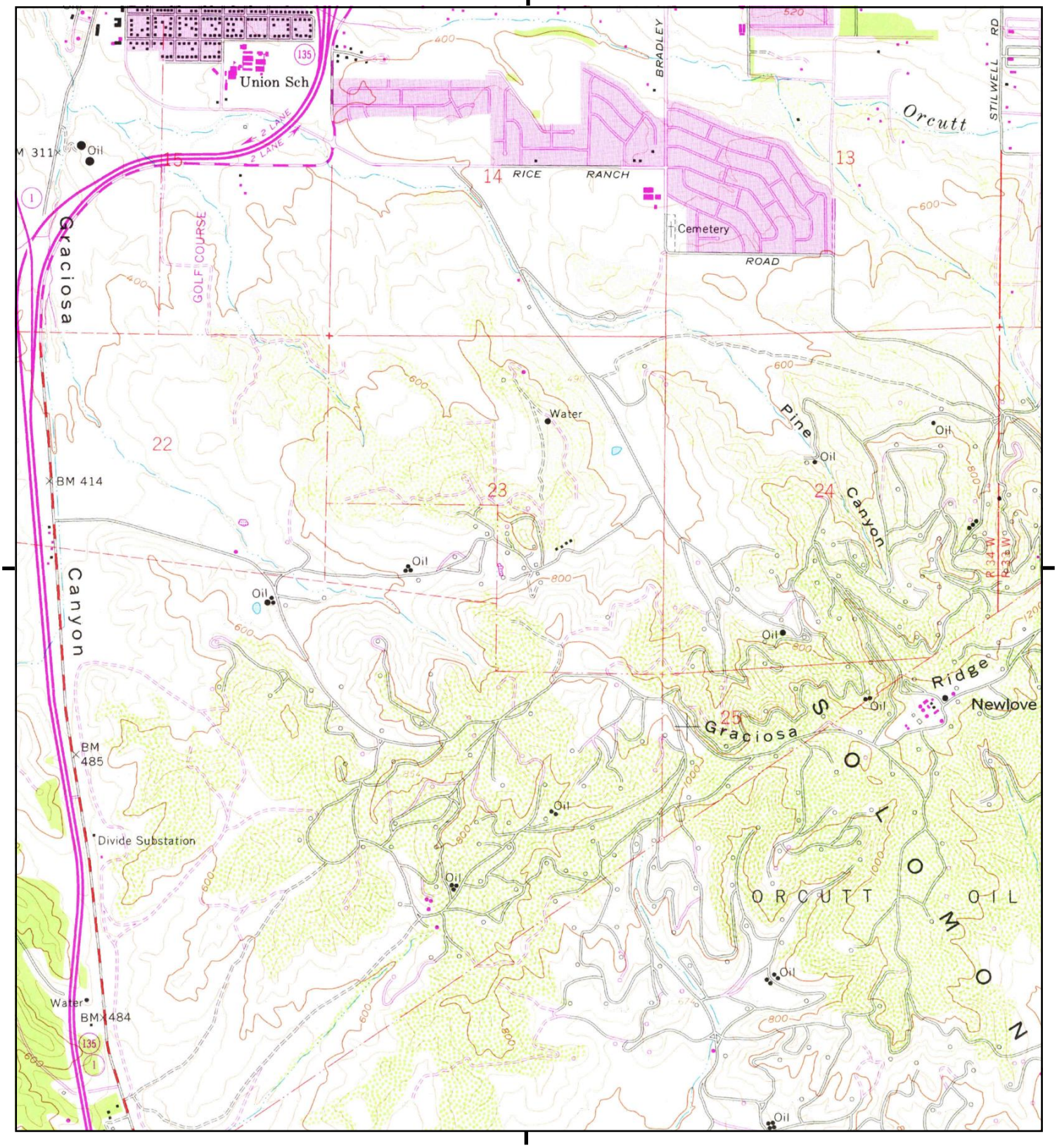
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Sisquoc, 1974, 7.5-minute
W, Orcutt, 1974, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

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This report includes information from the following map sheet(s).

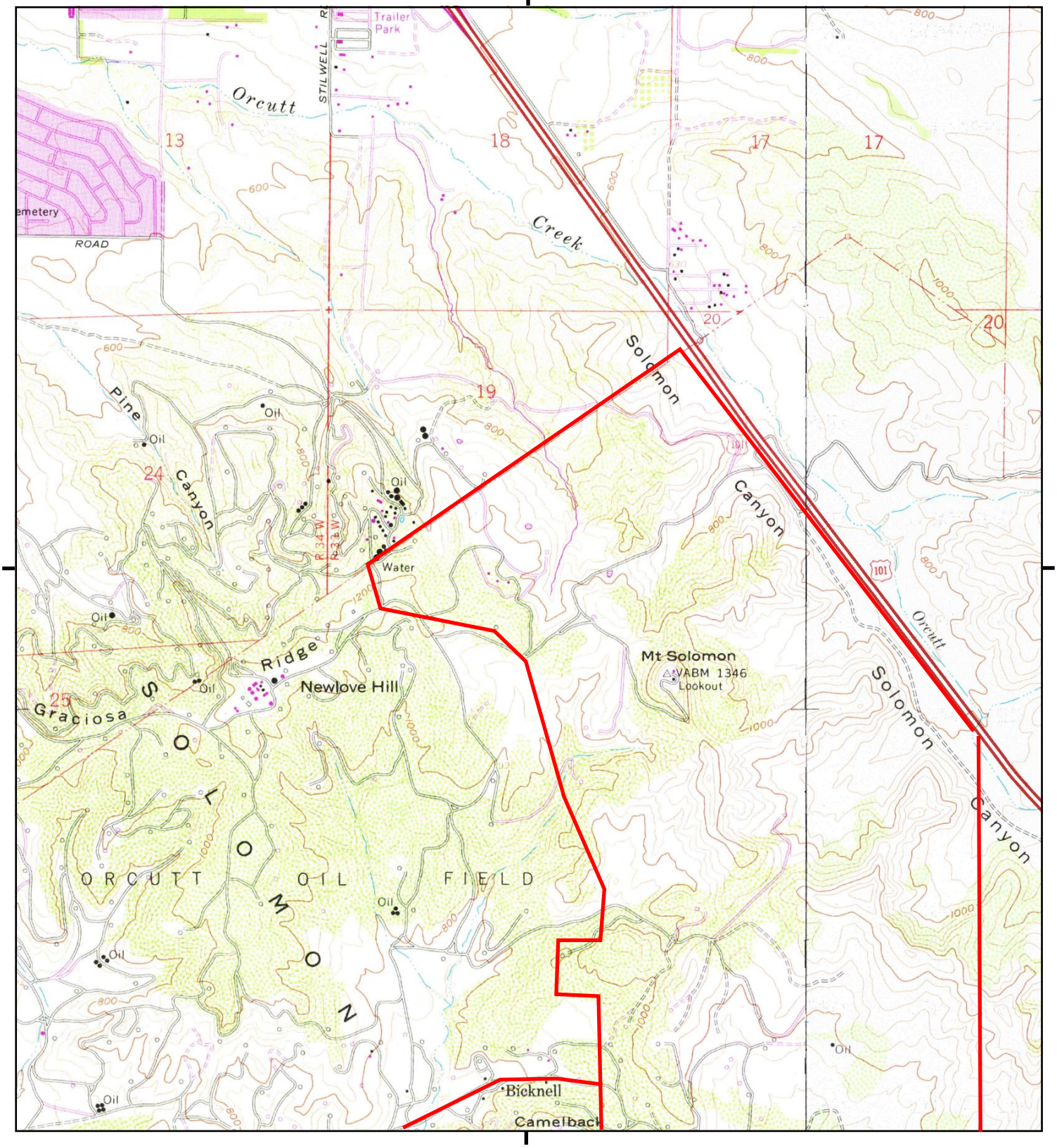
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1974, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
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CLIENT: Waterstone Environmental Inc

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This report includes information from the following map sheet(s).

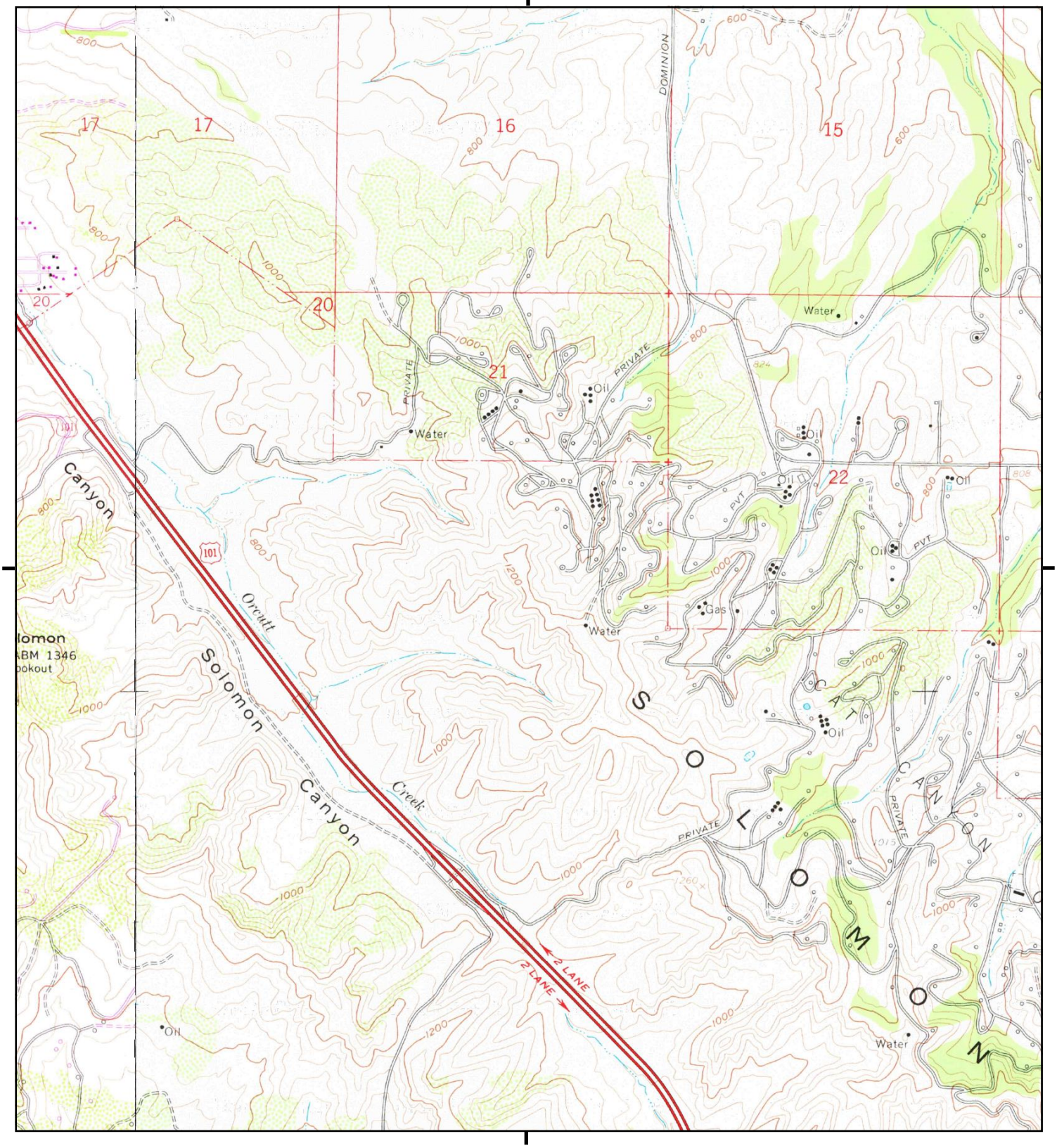
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1974, 7.5-minute
SE, Sisquoc, 1974, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



This report includes information from the following map sheet(s).

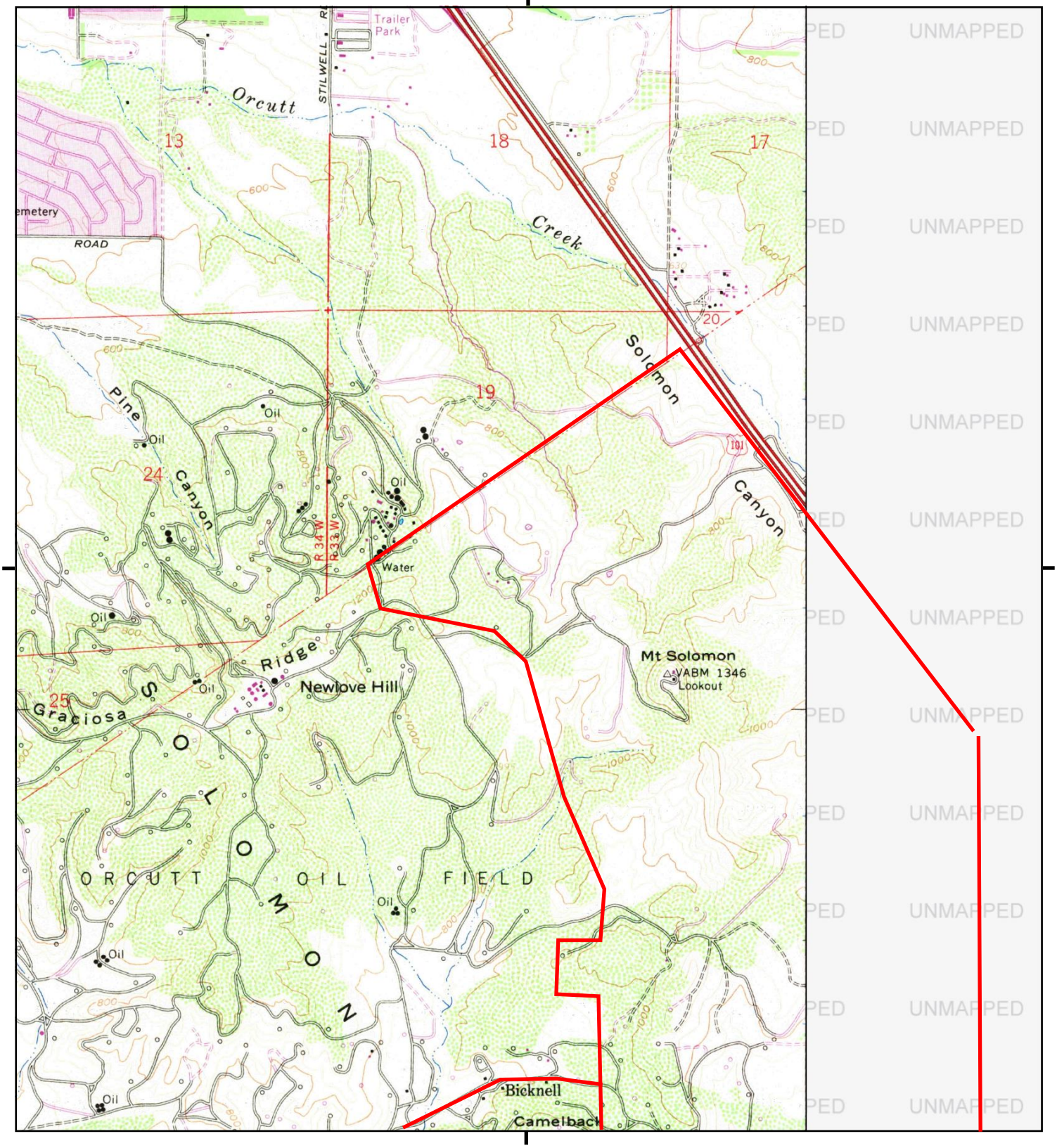
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NW N NE
W E
SW S SE

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W, Orcutt, 1974, 7.5-minute

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CLIENT: Waterstone Environmental Inc

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This report includes information from the following map sheet(s).

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W E
SW S SE

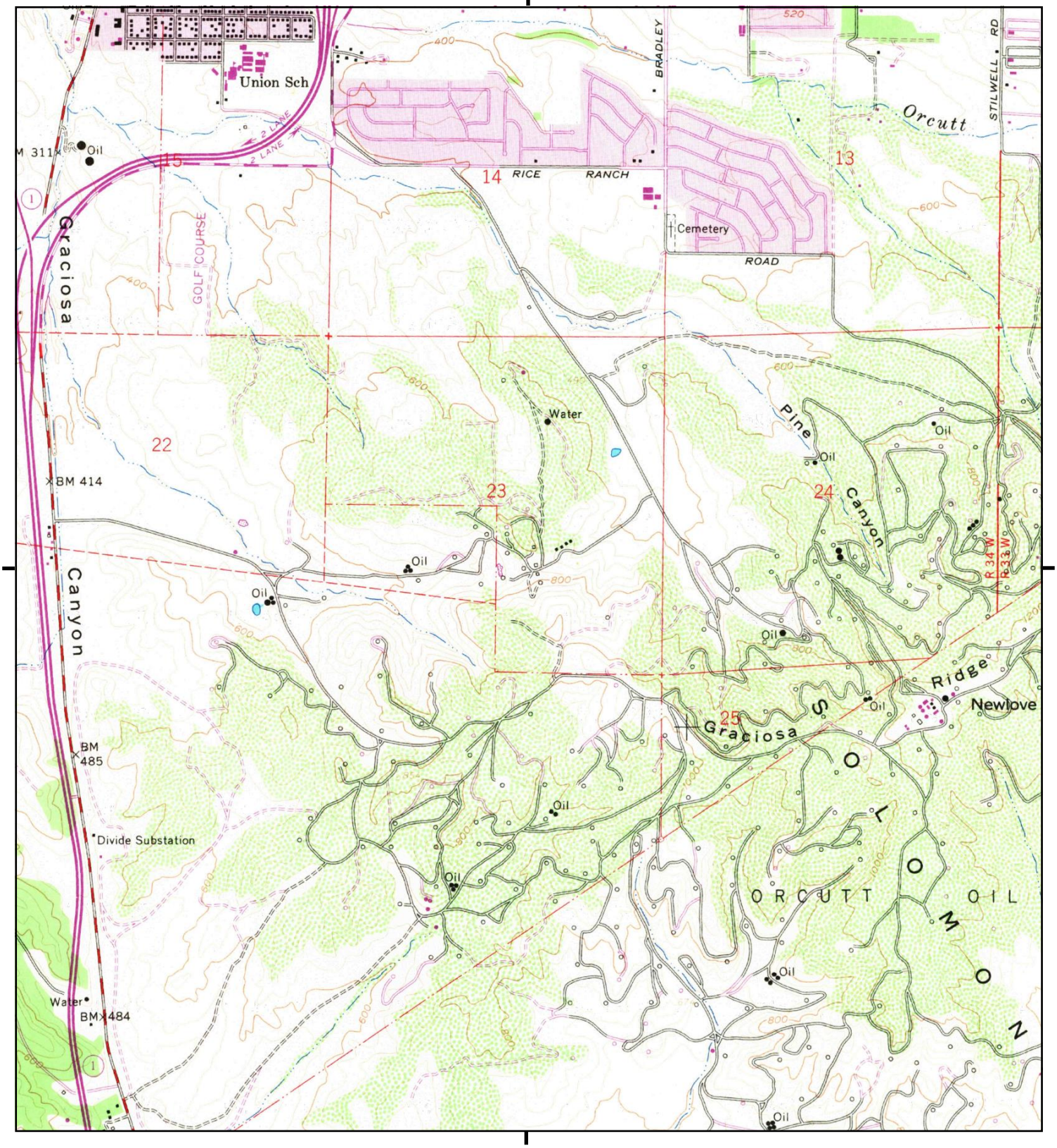
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SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

1967



This report includes information from the following map sheet(s).

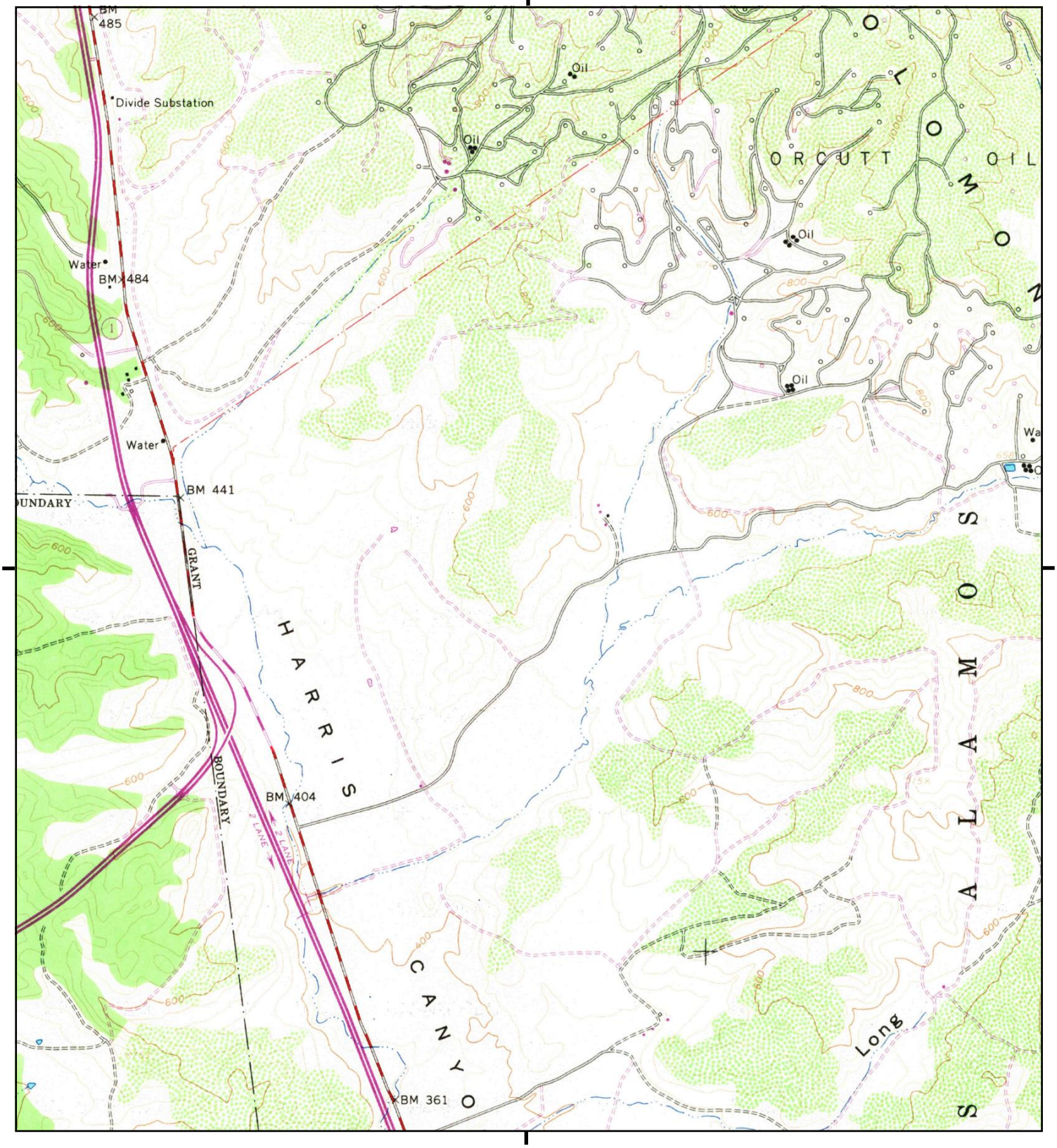
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NW N NE
W E
SW S SE

TP, Orcutt, 1967, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



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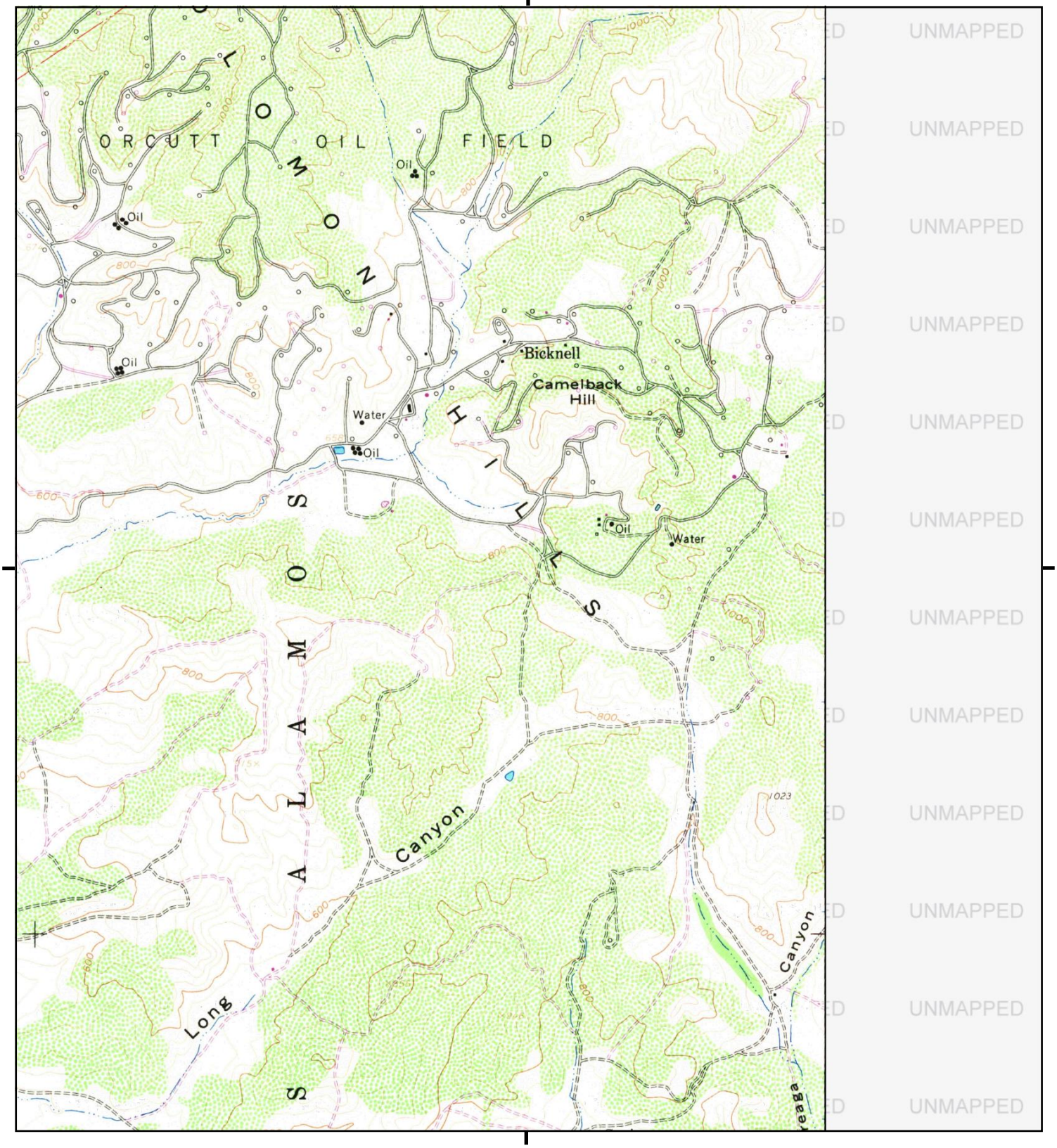
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NW N NE
W E
SW S SE

TP, Orcutt, 1967, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N



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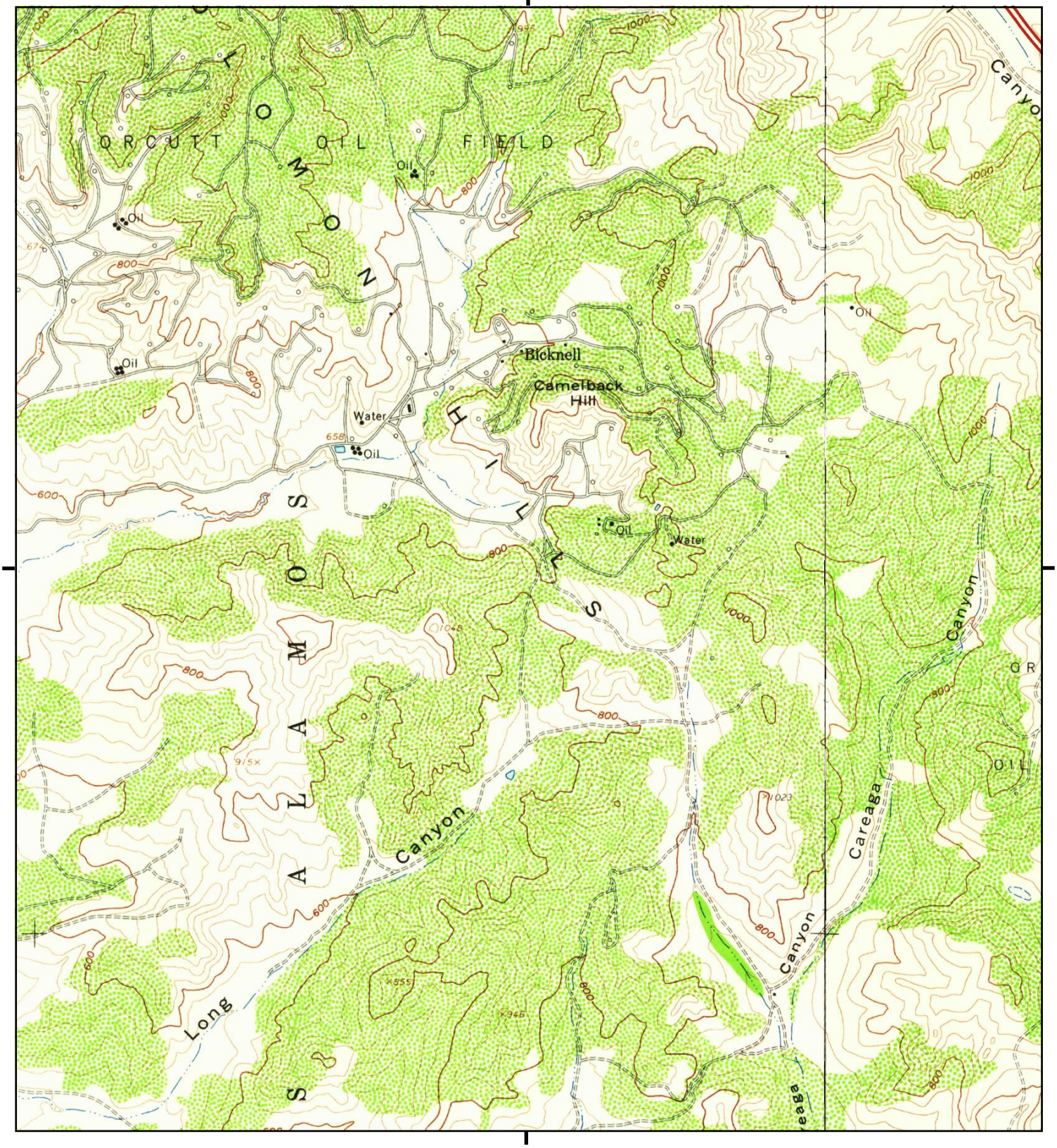
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1967, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
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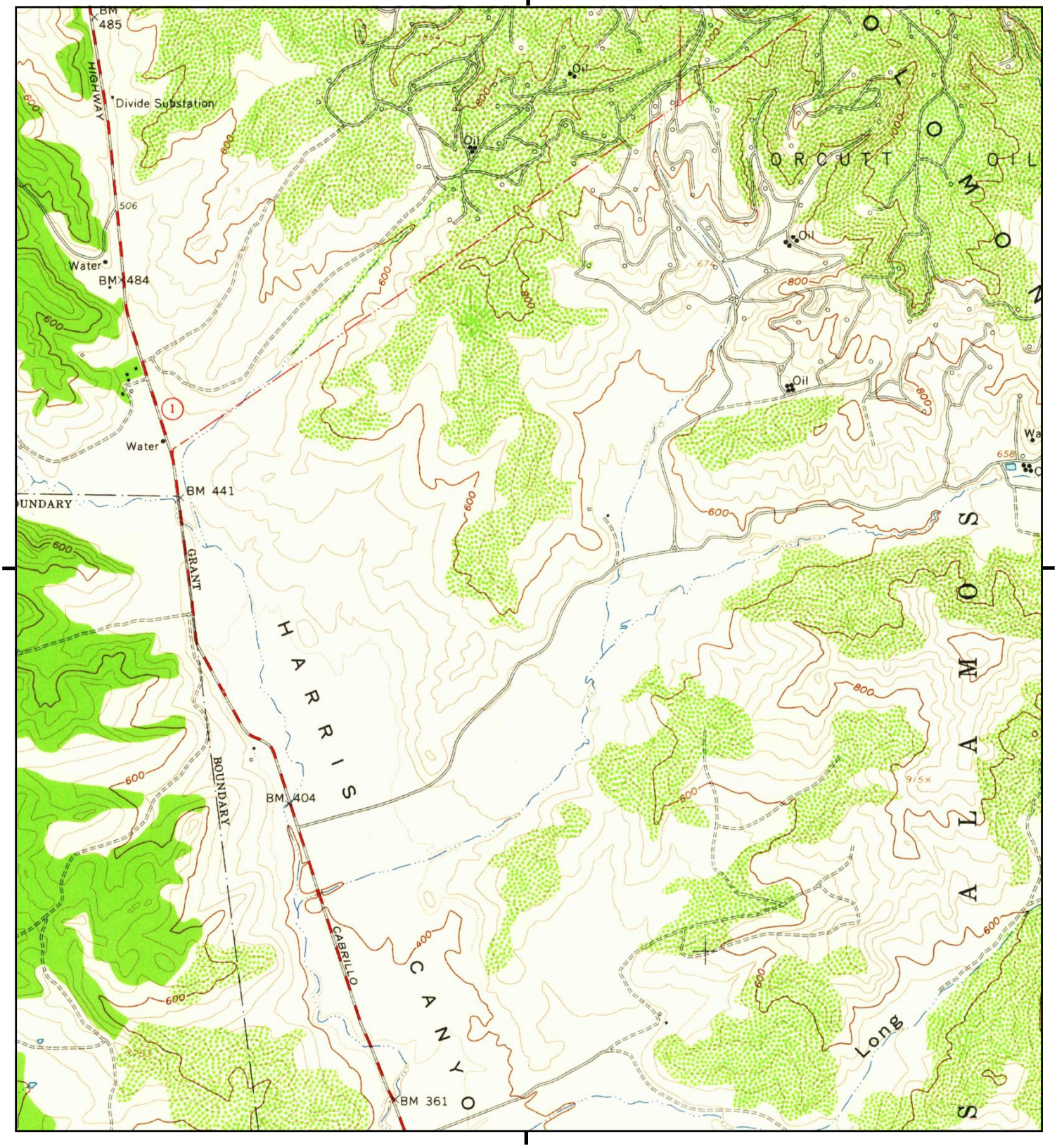
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W E
SW S SE

TP, Orcutt, 1959, 7.5-minute
E, Sisquoc, 1959, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
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This report includes information from the following map sheet(s).

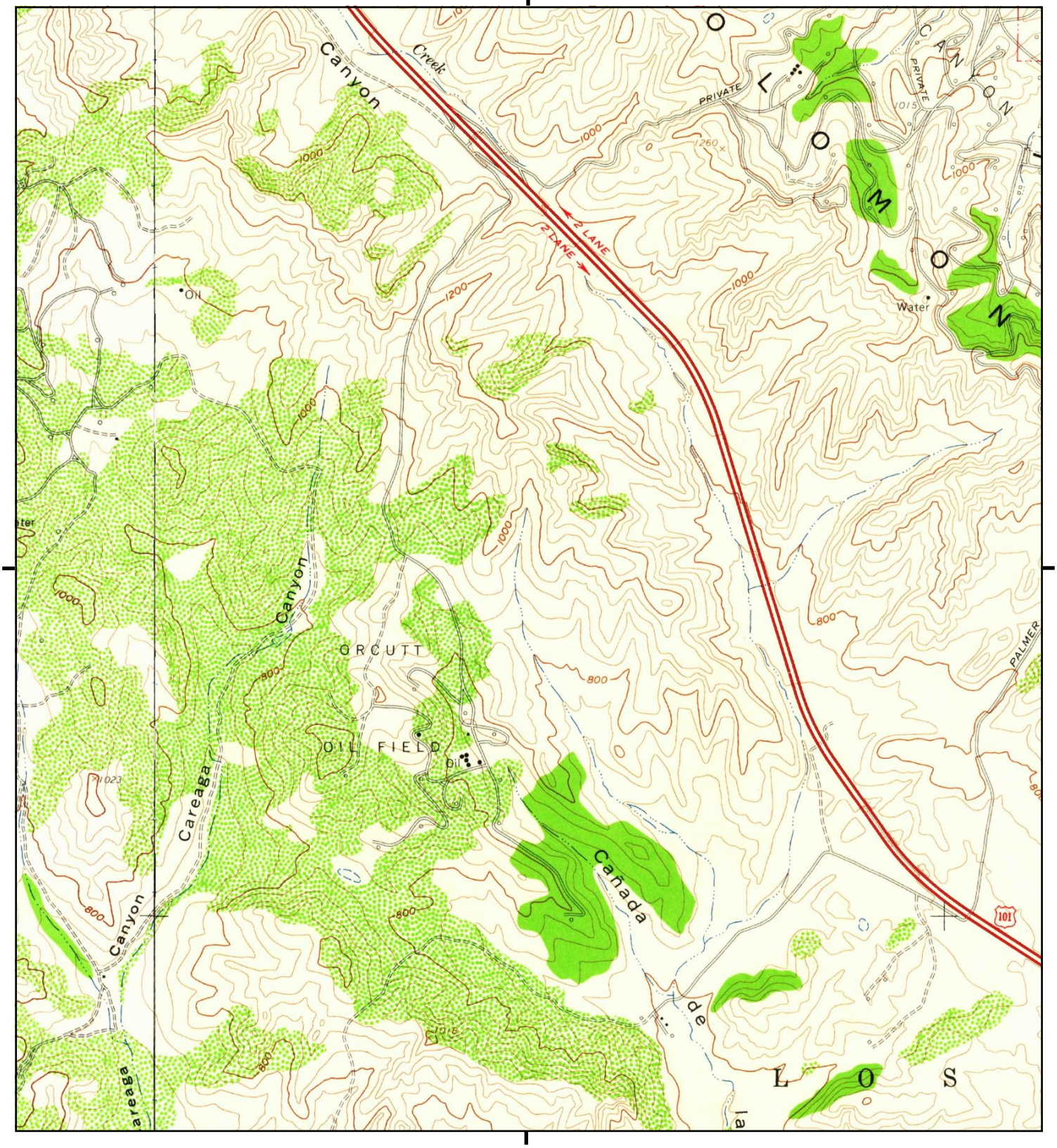
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NW N NE
W E
SW S SE

TP, Orcutt, 1959, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
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This report includes information from the following map sheet(s).

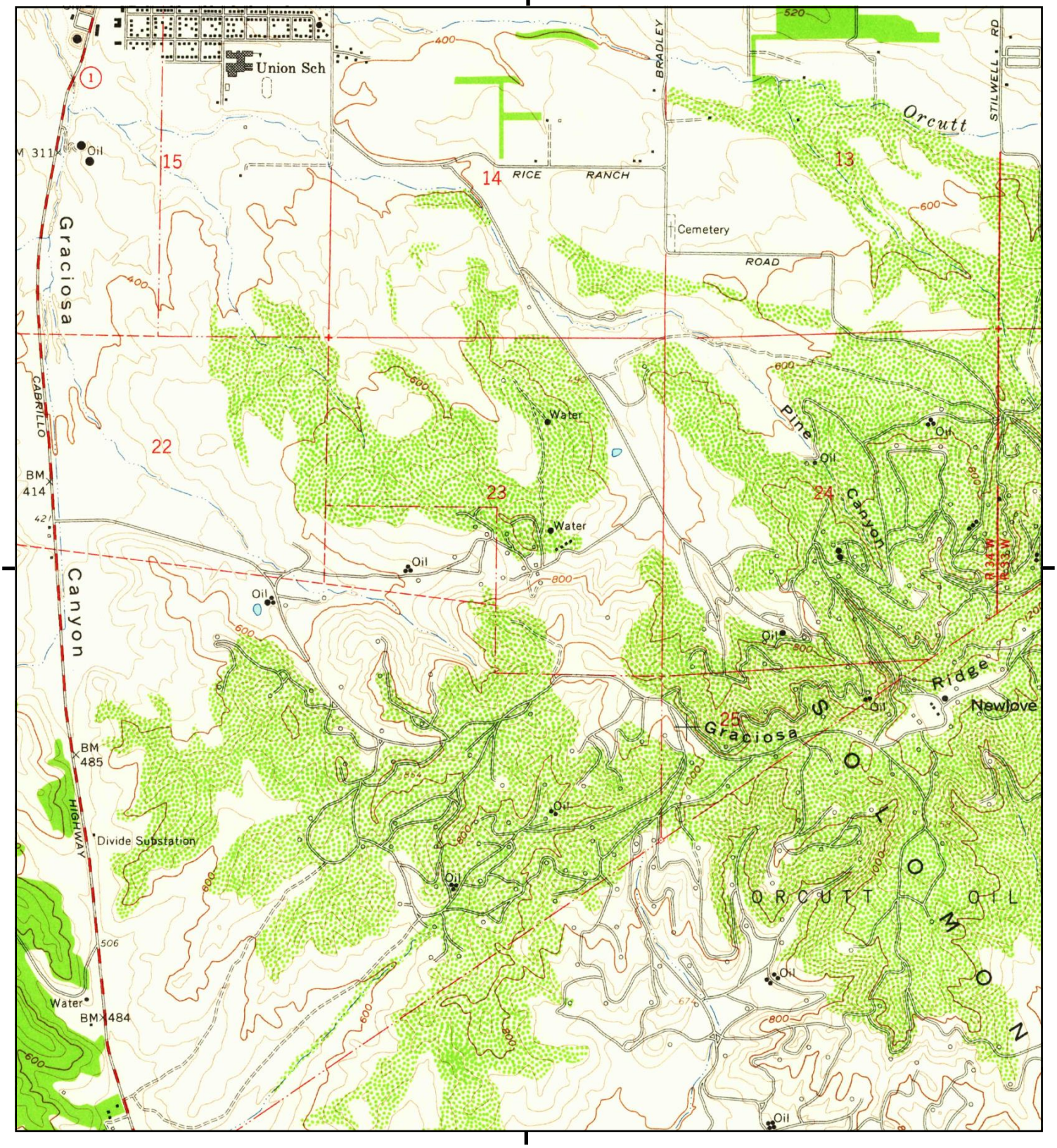
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W E
SW S SE

TP, Sisquoc, 1959, 7.5-minute
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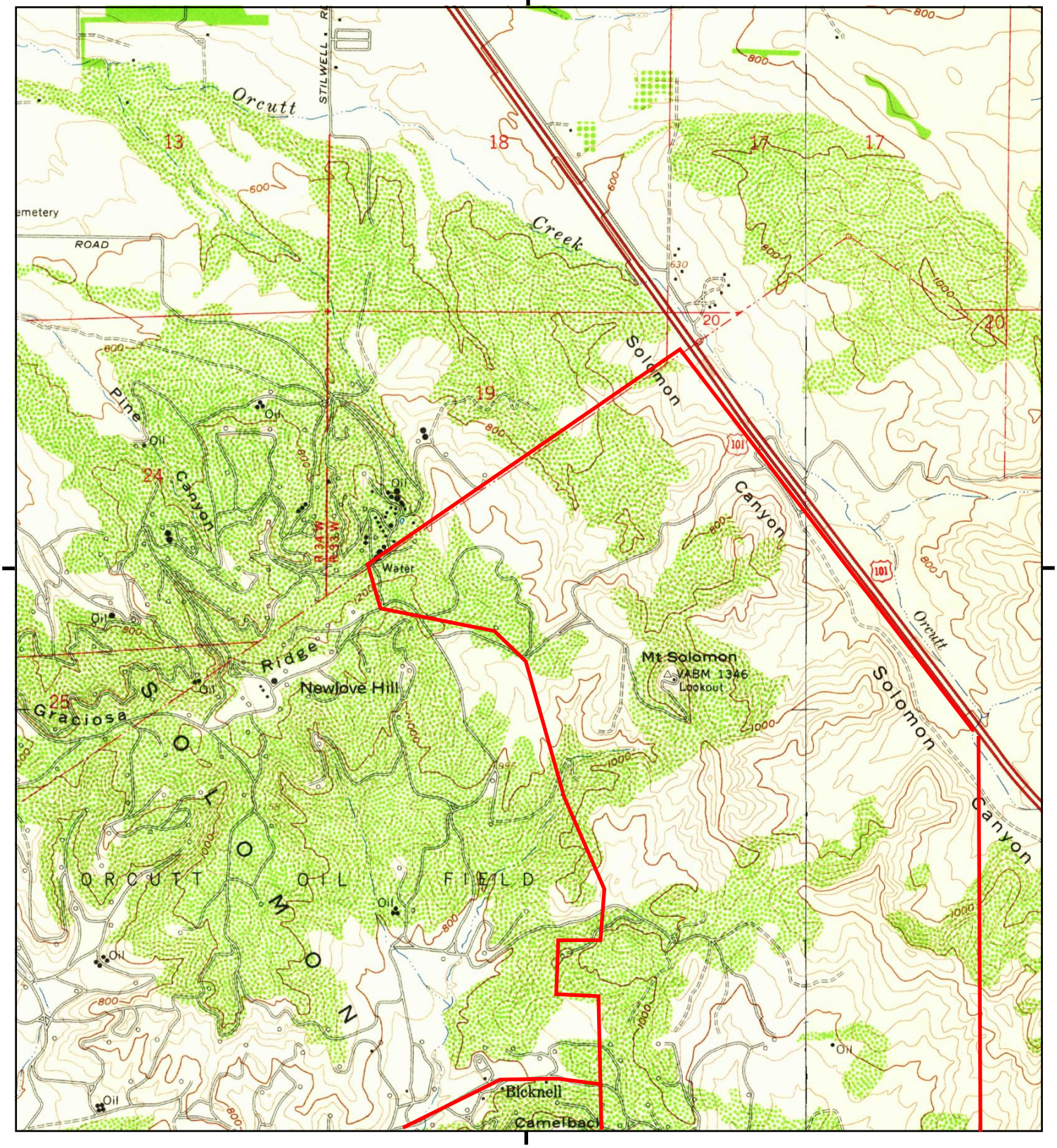
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W E
SW S SE

TP, Orcutt, 1959, 7.5-minute

SITE NAME: Solomon Hills Phase I
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This report includes information from the following map sheet(s).

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W E
SW S SE

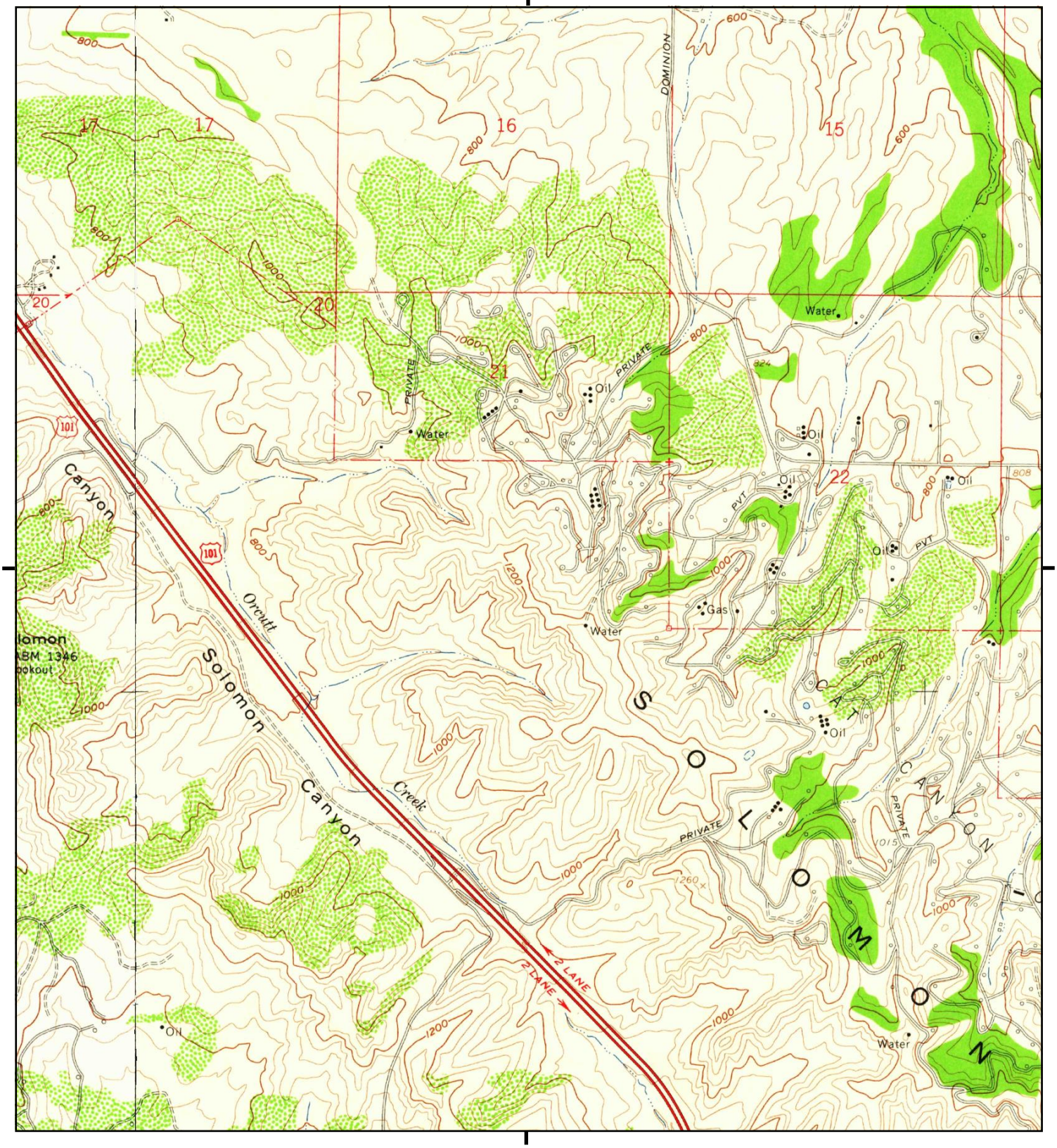
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SE, Sisquoc, 1959, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Historical Topo Map

1959



This report includes information from the following map sheet(s).

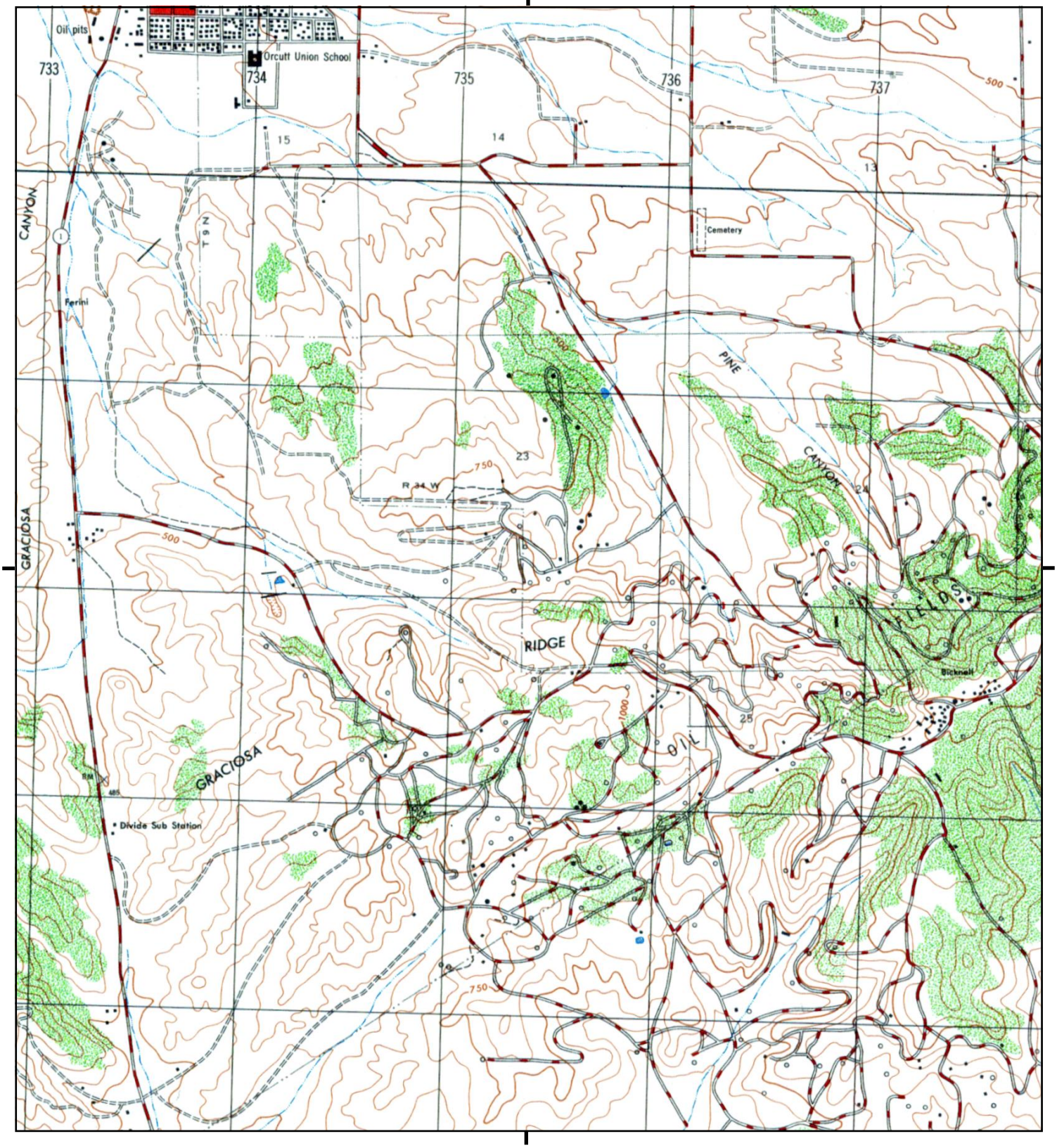
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NW N NE
W E
SW S SE

TP, Sisquoc, 1959, 7.5-minute
W, Orcutt, 1959, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

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This report includes information from the following map sheet(s).

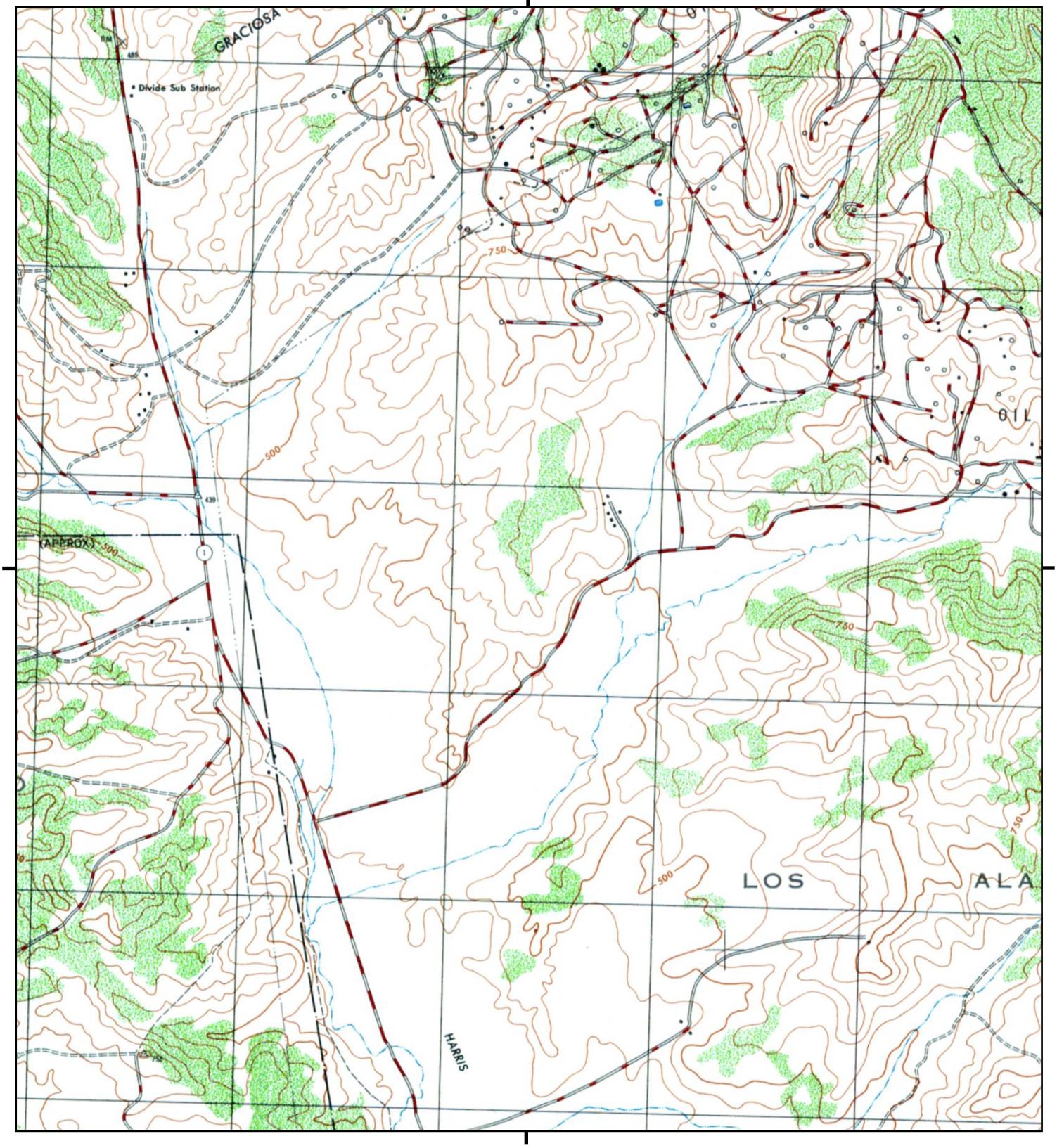
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, ORCUTT, 1948, 7.5-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

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This report includes information from the following map sheet(s).

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W E
SW S SE

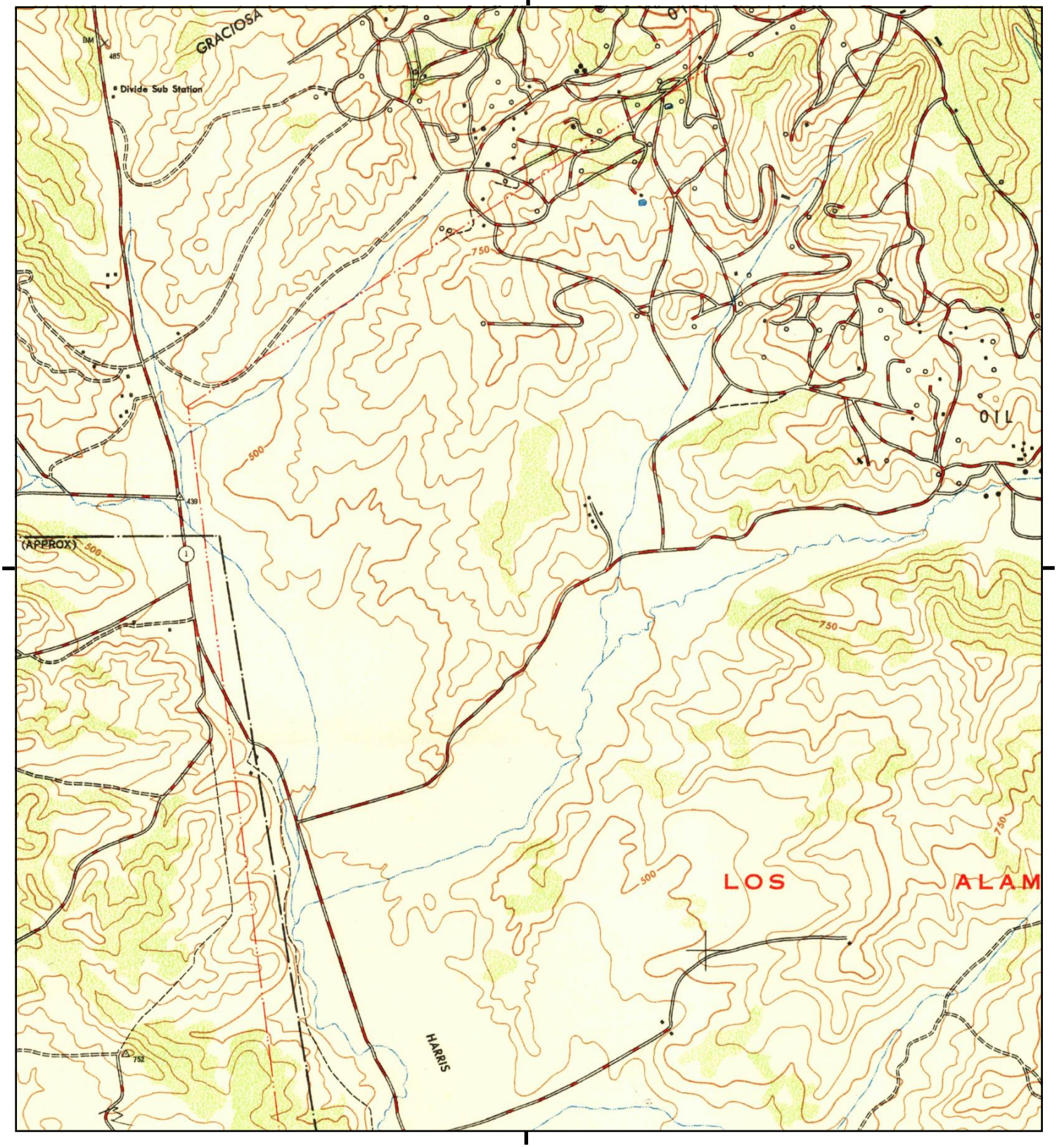
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SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
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N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

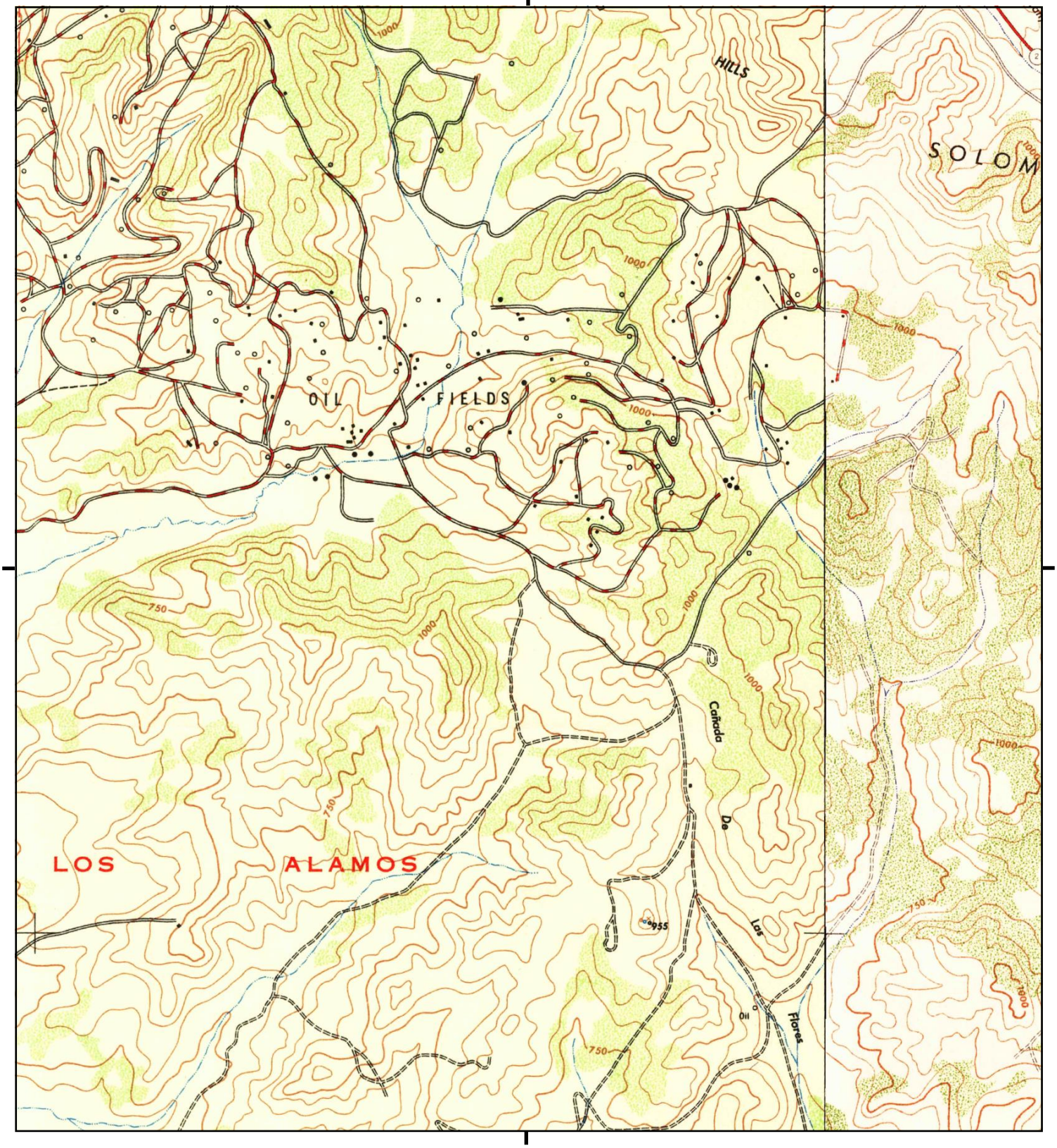
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1947, 7.5-minute

SITE NAME: Solomon Hills Phase I
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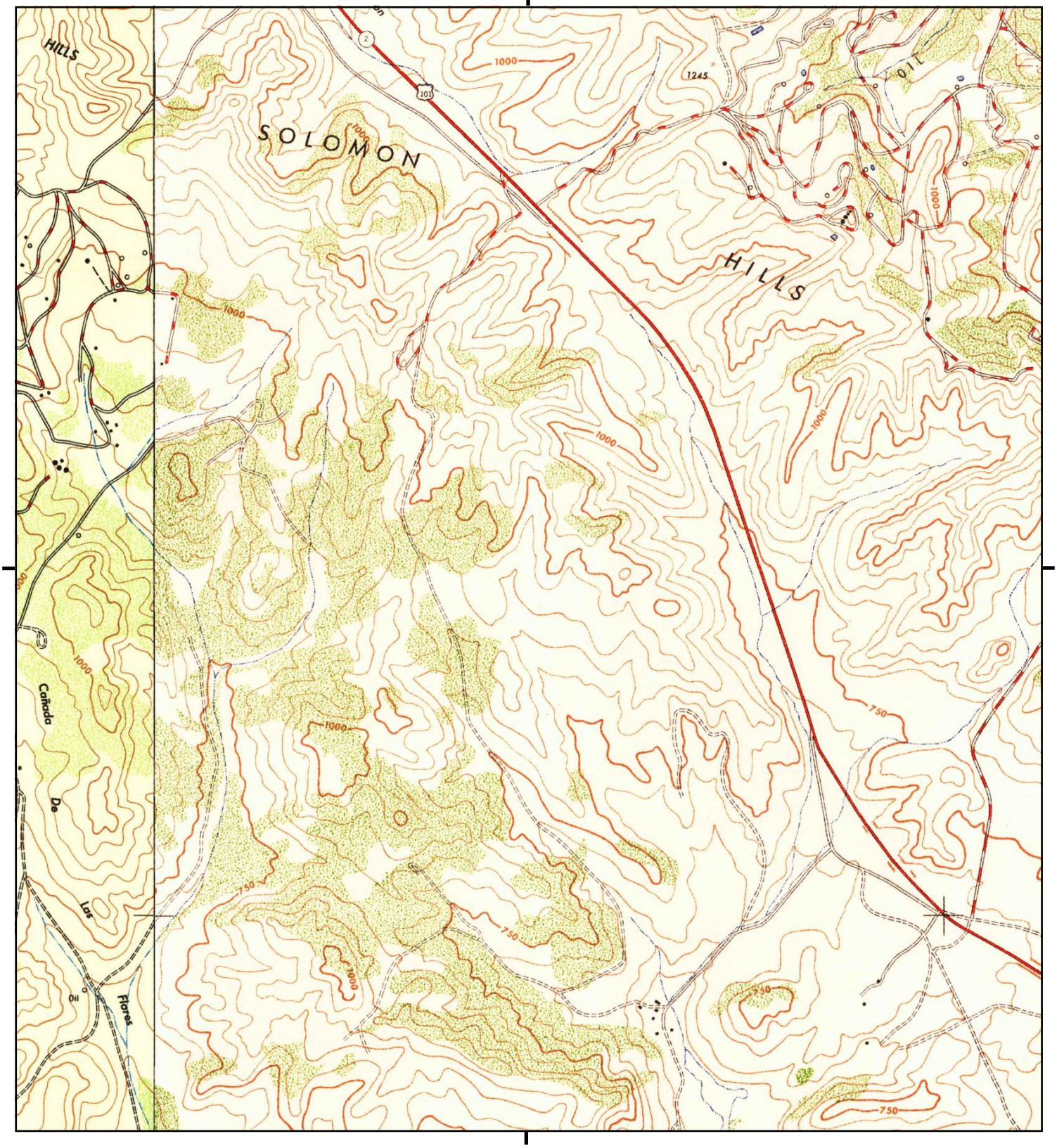
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1947, 7.5-minute
E, Careaga Canyon, 1947, 7.5-minute

SITE NAME: Solomon Hills Phase I
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CLIENT: Waterstone Environmental Inc

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This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

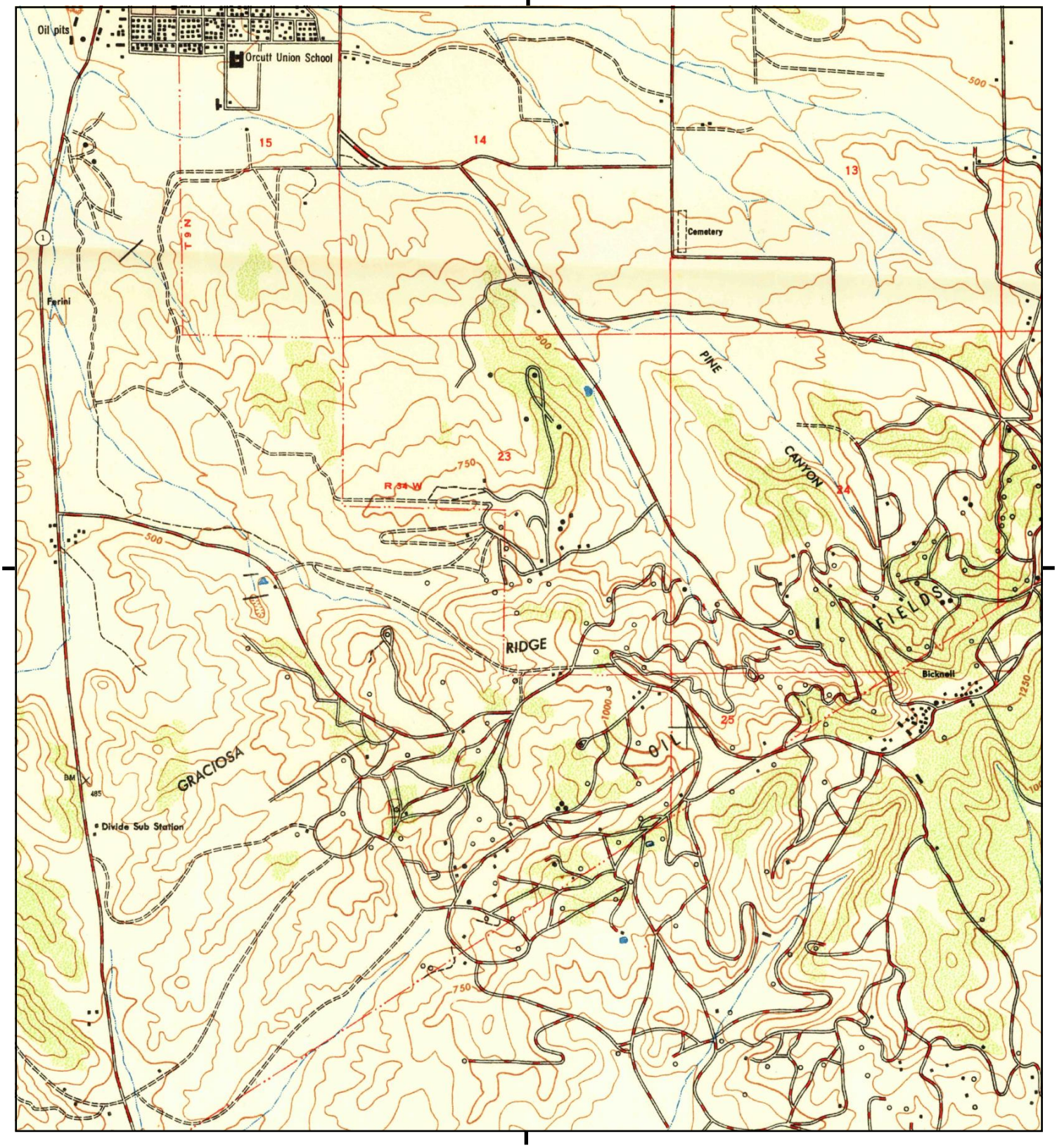
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W, Orcutt, 1947, 7.5-minute

SITE NAME: Solomon Hills Phase I
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Historical Topo Map

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0 Miles 0.25 0.5 1 1.5

NW N NE
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SW S SE

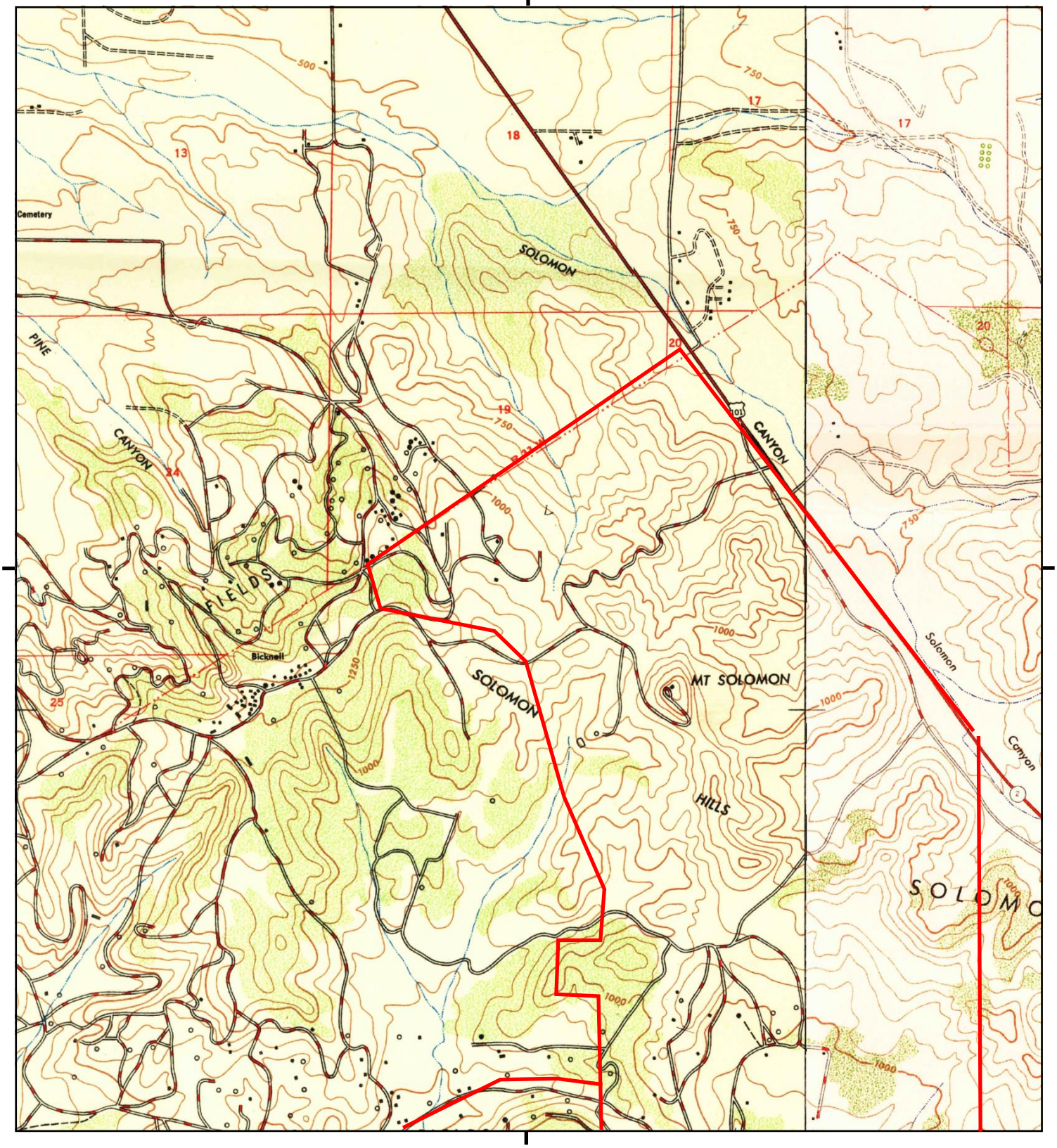
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Historical Topo Map

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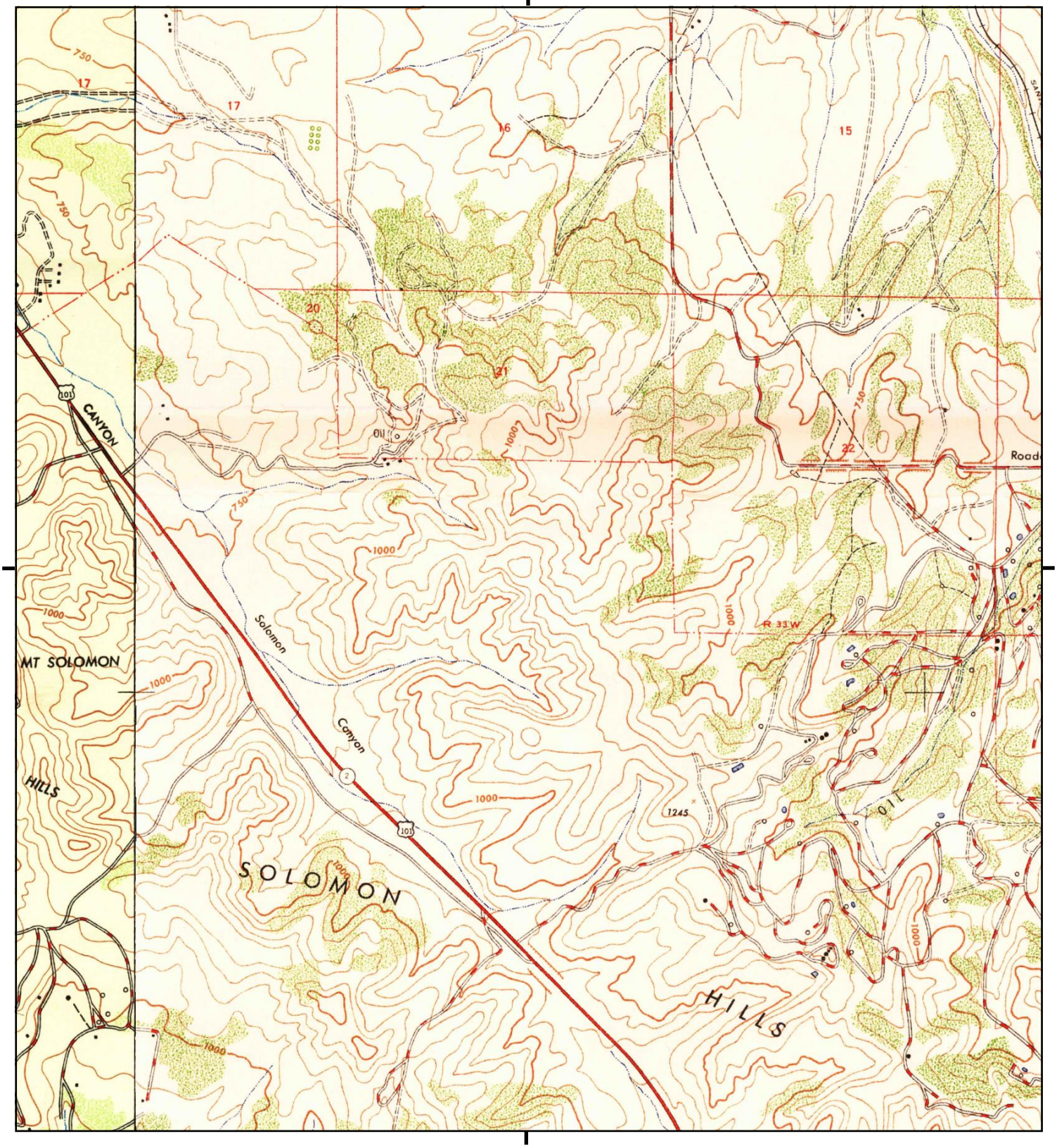
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Orcutt, 1947, 7.5-minute
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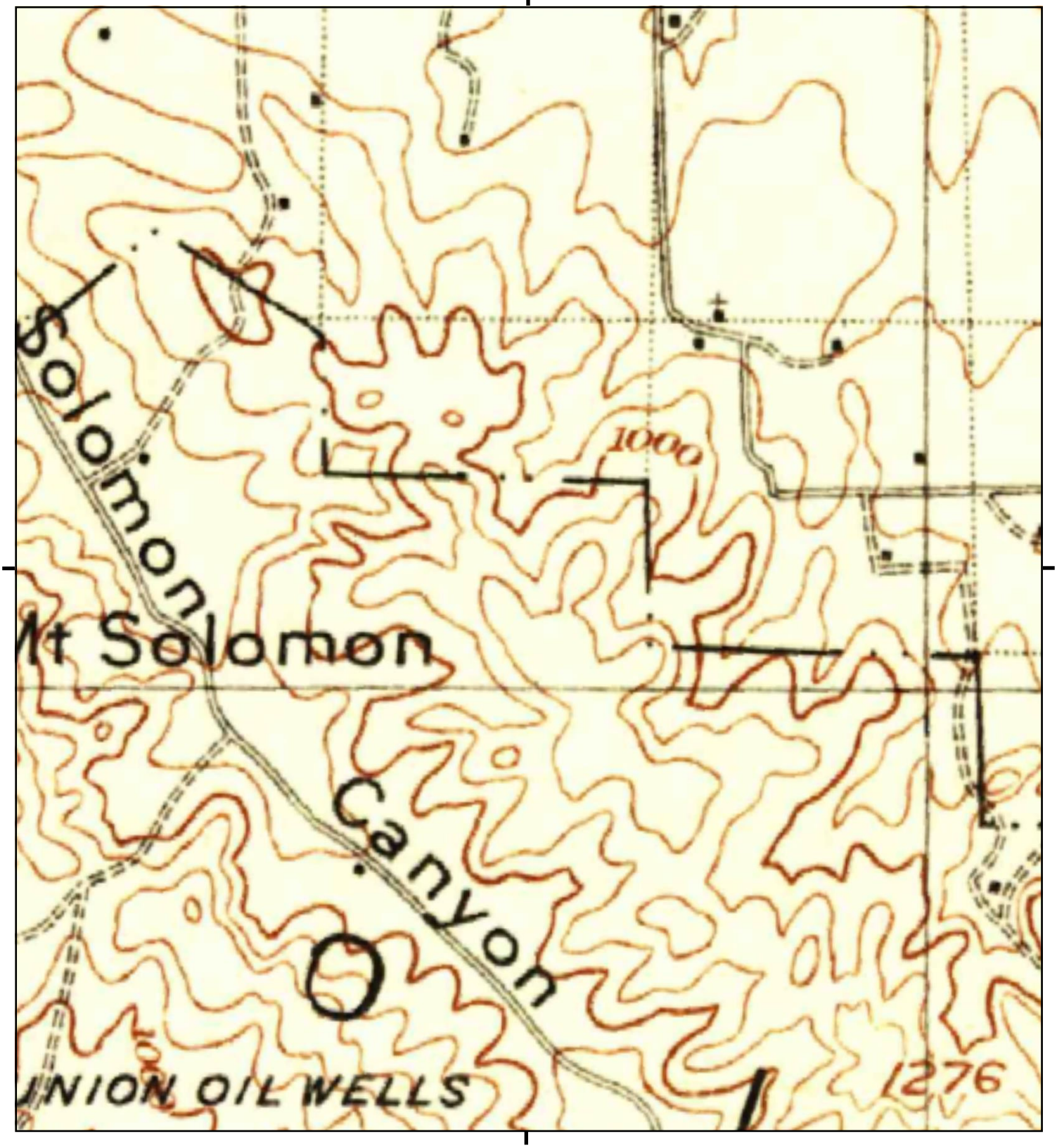
0 Miles 0.25 0.5 1 1.5

NW N NE
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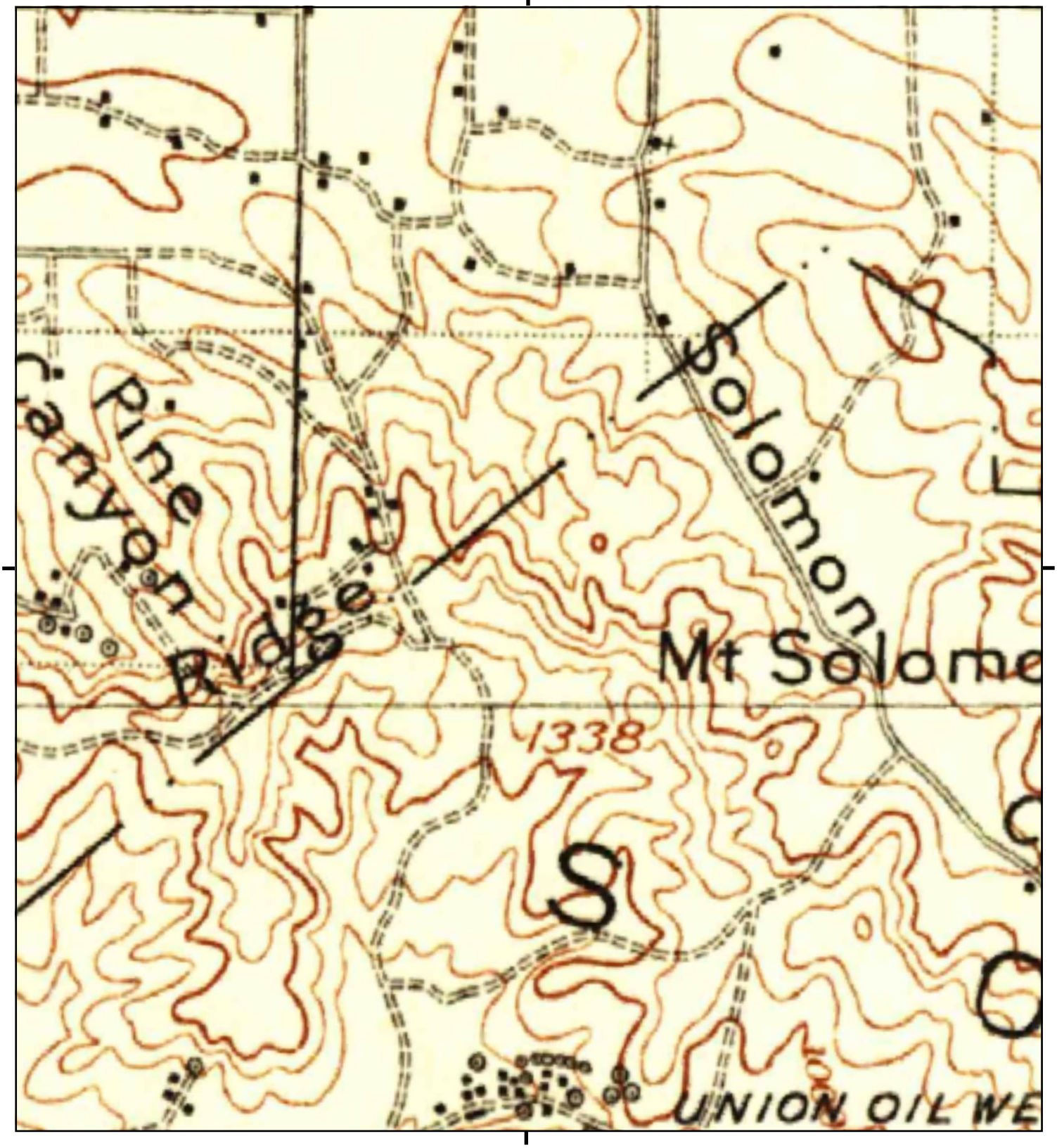
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NW N NE
W E
SW S SE

TP, Lompoc, 1905, 30-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

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This report includes information from the following map sheet(s).

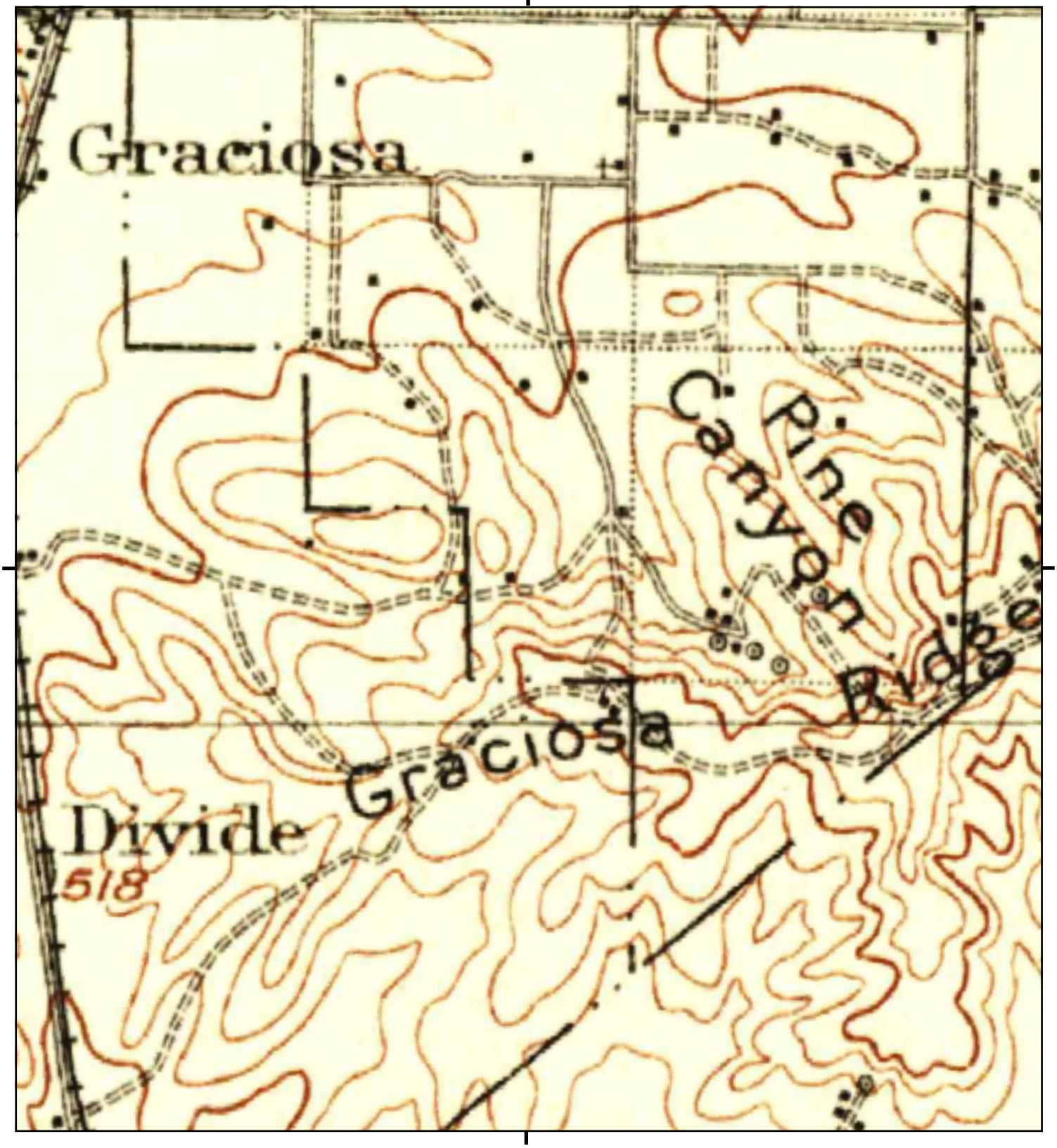
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NW N NE
W E
SW S SE

TP, Lompoc, 1905, 30-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
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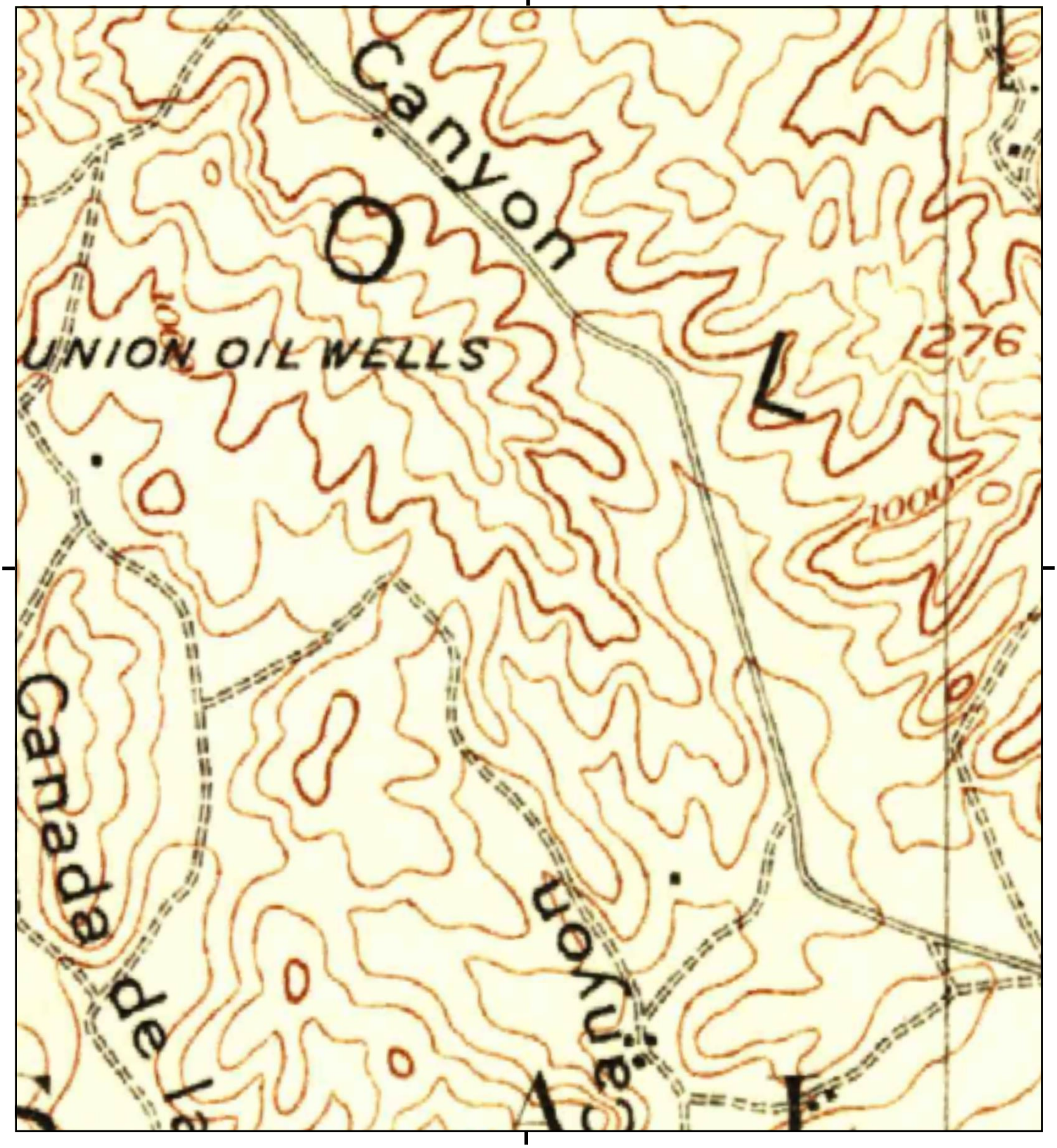
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NW N NE
W E
SW S SE

TP, Lompoc, 1905, 30-minute

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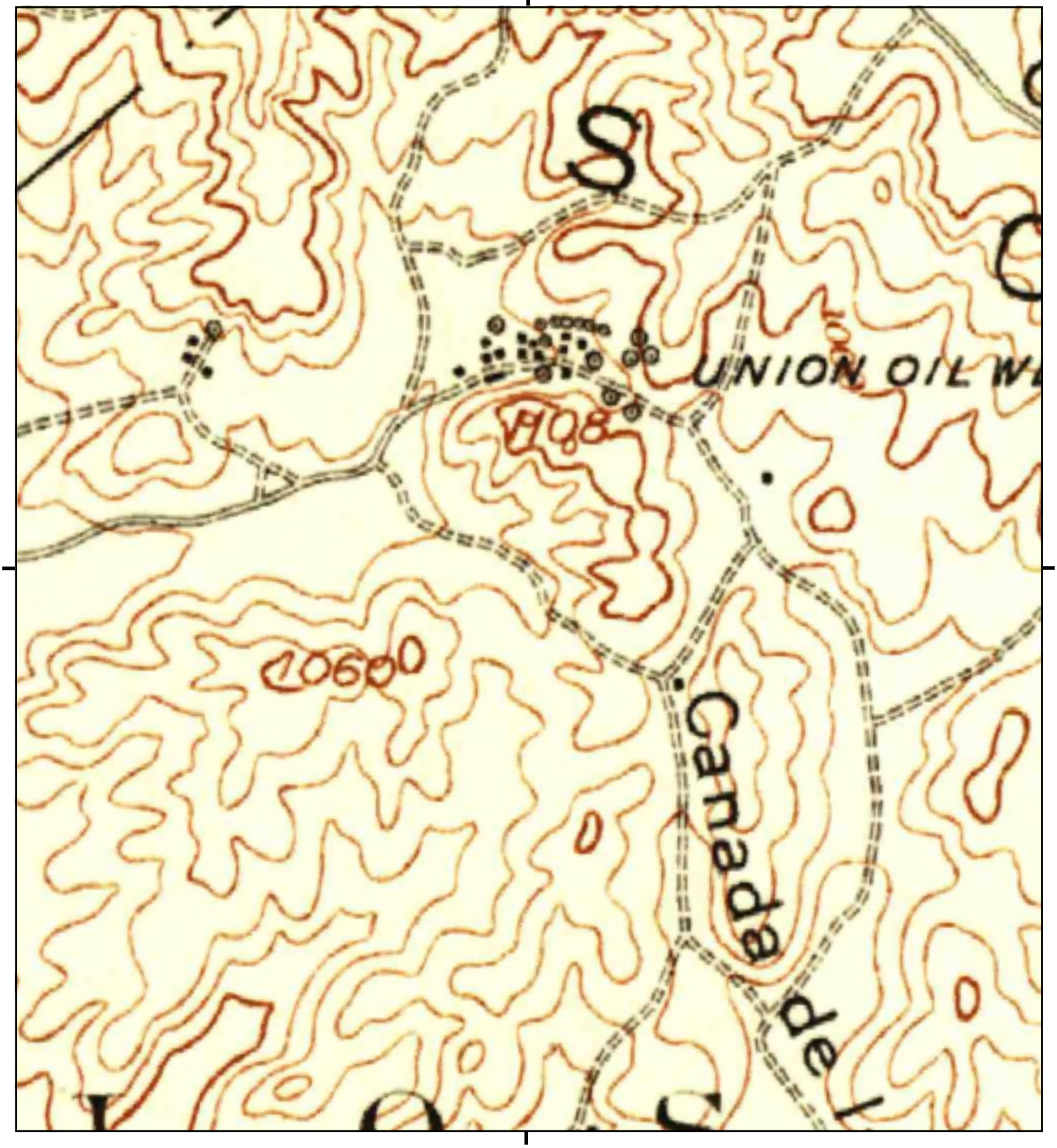
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NW N NE
W E
SW S SE

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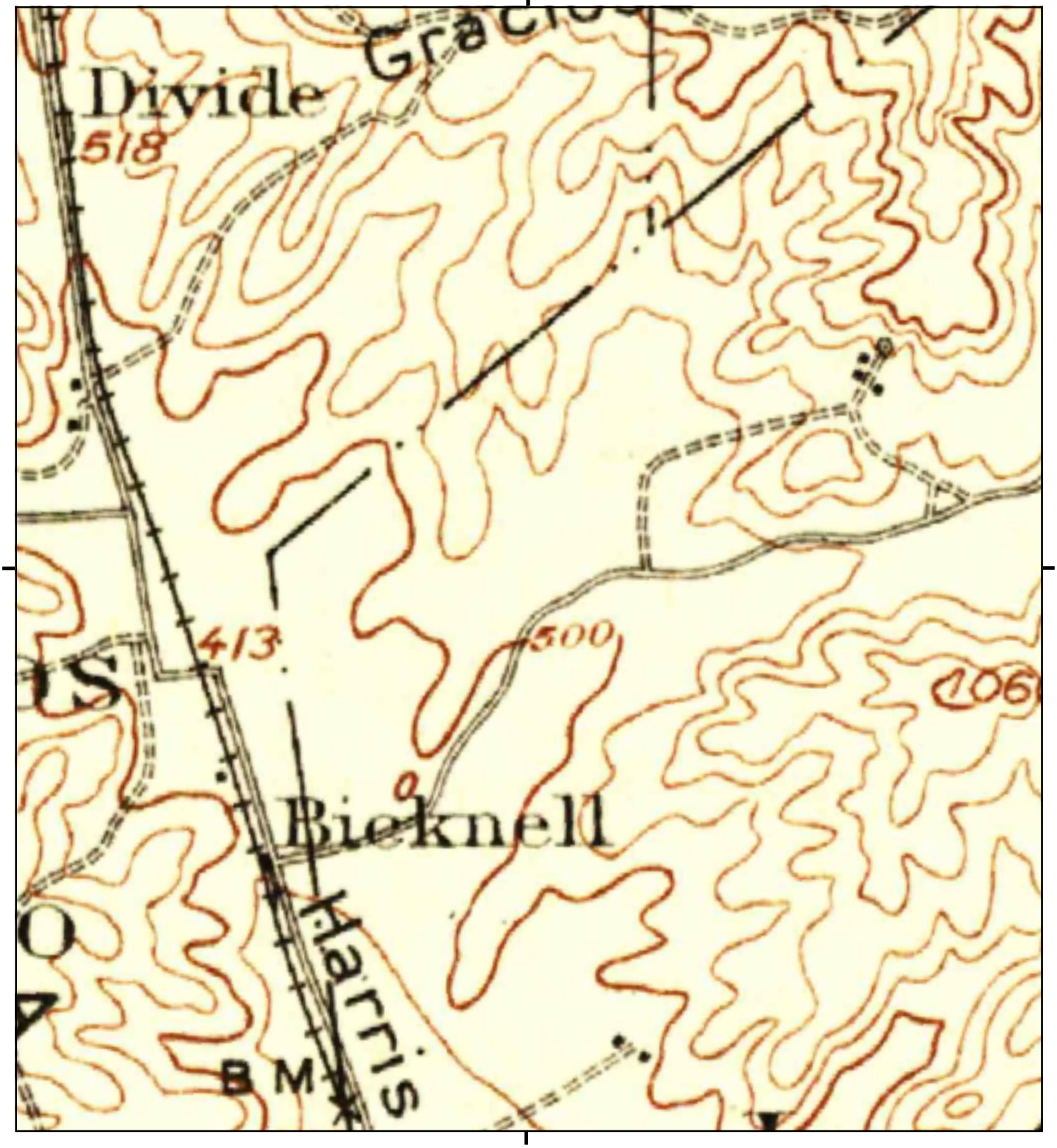
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NW N NE
W E
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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lompoc, 1905, 30-minute

SITE NAME: Solomon Hills Phase I
ADDRESS: Portions of Careaga and Newlove Leases
Santa Maria, CA 93455
CLIENT: Waterstone Environmental Inc

N

Appendix I

City Directory

Solomon Hills Phase I
Portions of Careaga and Newlove Leases
Santa Maria, CA 93455

Inquiry Number: 8028589.6
June 26, 2025

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☐	☐	EDR Digital Archive
2017	☐	☐	Cole Information
2014	☐	☐	Cole Information
2010	☐	☐	Cole Information
2005	☐	☐	Cole Information
2000	☐	☐	Cole Information
1995	☐	☐	Cole Information
1990	☐	☐	Haines Criss-Cross Directory
1985	☐	☐	Haines Criss-Cross Directory
1981	☐	☐	Haines Criss-Cross Directory
1977	☐	☐	Haines Criss-Cross Directory
1973	☐	☐	Haines Criss-Cross Directory
1968	☐	☐	Polk's City Directory
1963	☐	☐	Polk's City Directory
1959	☐	☐	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

Portions of Careaga and Newlove Leases
Santa Maria, CA 93455

Year	*CD Image*	*Source*	

BICKNELL RD

2020	-	EDR Digital Archive	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1981	-	Haines Criss-Cross Directory	Street not listed in Source
1977	-	Haines Criss-Cross Directory	Street not listed in Source
1973	-	Haines Criss-Cross Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source
1959	-	Polk's City Directory	Street not listed in Source

ORCUTT HILL RD

2020	-	EDR Digital Archive	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1981	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

Year	CD Image	Source	
1977	-	Haines Criss-Cross Directory	Street not listed in Source
1973	-	Haines Criss-Cross Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source
1959	-	Polk's City Directory	Street not listed in Source

FINDINGS

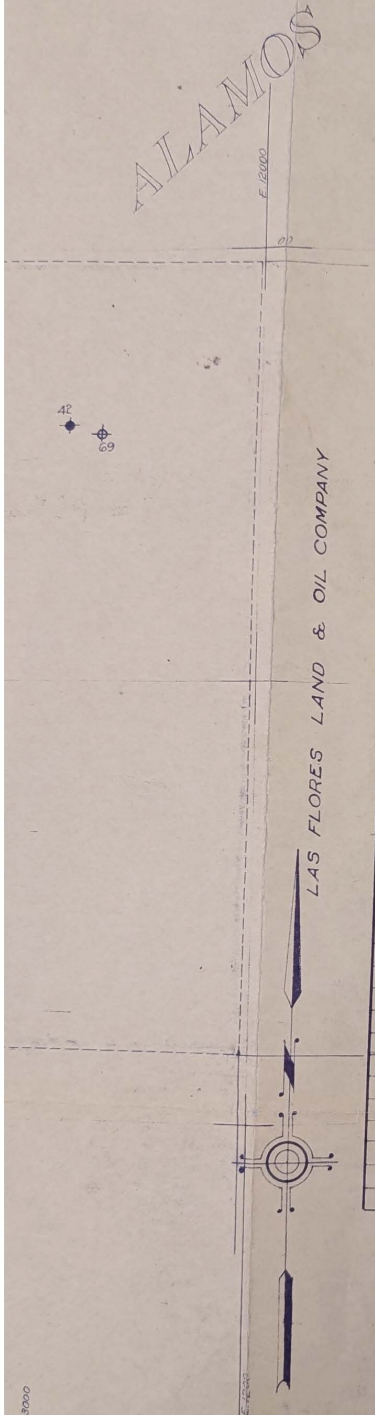
CROSS STREETS

No Cross Streets Identified

Appendix J

Agency Documentation

California Department of Conservation Geologic
Energy Management Division



LOCATION OF WELLS

(Origin of Coördinates at "A")

Well No	South Coordinates	East Coordinates	Elev.
1	2095.48	1791.10	676.66 Ground
2	2159.48	1503.70	691.58 Ground
3	233.09	4824.52	893.59 Dk. Floor
4	58.30	5460.01	871.05 Dk. Floor
5	601.84	5183.80	827.62 Dk. Floor
6	1044.47	5624.47	836.62 Dk. Floor
7	86.86	4381.48	845.90 Dk. Floor
8	309.36	5839.30	921.80 Ground
9	702.70	5812.35	879.09 Ground
10	50.71	4611.68	821.68 Ground
11	1430.56	5945.13	919.39 Dk. Floor
12	76.74	3790.54	839.82 Dk. Floor
13	53.55	4817.87	892.30 Ground
14	813.52	4394.22	823.59 Dk. Floor
15	60.15	5744.01	838.19 Dk. Floor
16	362.59	4514.17	809.29 Ground
17	71.23	7476.20	969.53 Ground
18	998.32	4899.37	904.08 Dk. Floor
19	51.59	5141.28	819.03 Ground
20	314.63	3409.18	814.89 Ground
21	154.19	359.58	822.12 Dk. Floor
22	781.12	179.45	775.85 Dk. Floor
23	763.91	789.61	774.20 Dk. Floor
24	162.55	849.96	842.57 Dk. Floor
25	1376.87	207.25	716.67 Dk. Floor
26	2173.77	177.09	679.21 Ground
27	2820.05	174.25	691.77 Ground
28	1469.36	779.67	720.35 Ground
29	1218.07	1304.80	724.21 Dk. Floor
30	2125.73	1407.02	678.36 Dk. Floor
31	3431.39	2573.54	771.92 Ground
32	2151.43	804.60	661.24 Dk. Floor
33	3762.25	4935.62	851.23 Dk. Floor
34	2097.36	2103.26	686.38 Dk. Floor
35	1473.53	1894.76	746.78 Ground
36	2280.26	2900.19	775.95 Dk. Floor
37	2383.81	4701.37	835.45 Dk. Floor
38	3832.39	8253.12	803.32 Ground
39	3044.36	5566.34	862.05 Ground
40	1985.04	5507.86	934.16 Dk. Floor
41	2760.14	3908.55	737.43 Top Casing
42 = #69			Lost
43	1851.60	3967.02	921.50 Dk. Floor
44	1479.55	2689.04	708.19 Dk. Floor
45	2056.41	6513.29	1001.93 Dk. Floor
46	2742.36	6345.58	1040.89 Dk. Floor
47	864.01	2260.79	734.82 Dk. Floor
48	54.96	2769.14	747.15 Dk. Floor
49	57.05	2117.14	794.99 Dk. Floor
50	803.26	2901.48	726.95 Dk. Floor

Well No	South Coordinates	East Coordinates	Elev.
51	1144.88	3521.88	746.76 Dk. Floor
52	95.51	6479.12	1069.08 Dk. Floor
53	3439.98	6254.82	
54	782.16	3269.65	769.84 Dk. Floor
55	2875.27	5109.00	829.15 Dk. Floor
56	3194.63	5485.72	858.75 Dk. Floor
57	1025.41	6303.98	958.99 Dk. Floor
58	7665.80	5084.01	
59	1473.58	1894.77	746.78 Ground
60	999.51	7035.19	999.32 Dk. Floor
61	122.87	7309.75	986.66 Dk. Floor
62	102.10	8161.27	975.78 Dk. Floor
63	863.14	7316.93	941.37 Dk. Floor
64	1742.06	7116.09	946.07 Dk. Floor
65	178.77	9131.36	973.00 Dk. Floor
66	1098.44	8977.40	909.72 Dk. Floor
67	5493.11	5689.48	1015.53 Ground
68	2203.93	7957.32	879.95 Dk. Floor
69	1727.01	10515.09	977.26 Ground
70	2829.88	9425.08	973.14 Dk. Floor
71			
72	4428.61	1394.26	763.19 Dk. Floor
73	1421.78	4917.69	1054.91 Dk. Floor
74	1433.86	6644.16	968.62 Dk. Floor
75	2435.48	7184.18	887.78 Dk. Floor
76	1788.58	6075.47	1002.78 Dk. Floor
77	325.32	5861.28	919.84 Dk. Floor
78	1638.10	8620.48	883.44 Dk. Floor
79	2353.60	217.14	681.56 Dk. Floor
80	3281.06	1964.48	687.29 Dk. Floor
81	3902.54	7322.60	902.93 Dk. Floor
82	4108.54	2159.31	800.61 Dk. Floor
83	5900.95	2101.41	
84	614.40	6468.14	1025.24 Dk. Floor
85	1798.34	3317.27	904.97 Dk. Floor
86	1123.84	4235.55	939.28 Dk. Floor
87			
88	1260.97	5498.80	934.76 Dk. Floor
89	2039.88	5077.63	891.07 Dk. Floor
90	764.41	4155.36	847.17 Dk. Floor
91	1501.02	7623.02	886.71 Dk. Floor
92	433.94	1438.66	898.04 Dk. Floor
93	1378.42	2891.56	760.71 Dk. Floor
A-1	162.81	1429.03	894.69 Dk. Floor
B-2	1454'	1952'	754.90 D.F.
B-3	623'	1518'	864.80 D.F.
B-4	2439'	5566'	
B-5	525'	8550'	

Description of Lease:- Parcel-1 Beginning at a redwood stake which marks the Northwest Corner of that certain 9758.60 acre parcel or tract of land known as the Juan B. Careaga Tract of the Rancho Los Alamos, Santa Barbara County, Cal.; said tract being described in Deed dated Oct. 27th, 1909, and recorded in Book 189, page 261, Records of Santa Barbara Co. Calif.; running thence along the West boundary of said above described Tract, S.0° 30' E. 2740.53' to a point on said West boundary line; thence S. 7° 20' 30" E. 2412.10' to a point, thence N. 88° 06' 40" E. 433.30' to a point, thence N. 21° 55' 30" E. 1611.77' to a point; thence N. 81° 06' 30" E. 1616.45' to a point; thence S. 64° 09' 21" E. 809.80' to a point; thence S. 84° 06' 50" E. 1320.40' to a point; thence S. 31° 19' 43" E. 999.09' to a point; thence S. 87° 40' 40" E. 1863.18' to a point; thence S. 30° 52' 15" E. 1241.81' to a point; thence S. 18° 45' 45" E. 1248.15' to a point; thence N. 44° 53' 30" E. 1033.07' to a point; thence N. 24° 14' 45" E. 155.50' to a point, thence N. 7° 51' 45" E. 1538.38' to a point on the North boundary of said Juan B. Careaga Tract; thence along North boundary of said Tract N. 88° 54' W. 2935.53' to point of beginning.

Parcels Nos 2, 3, 4, 5 & 6: Those portions of said lands lying within an area each 80 rods square, having said certain wells heretofore drilled to completion therein under the aforesaid lease on March 1st, 1910, and called Careaga Nos 80, 82, 72, 81, 70 as their centers.

Acreage:- 614.422 Ac. (Calc.)

Lessor M.B. Careaga et al

Date of Survey Oct 1929 Map No. SC.-72

Survey By: P.H. Wright & Ahlstrom Field Book No 338 & 189

SURVEY & DRAFTING DEPT.

SHELL OIL COMPANY

MAP OF

CAREAGA LEASE

ORCUTT FIELD

SANTA BARBARA CO. CAL.

DRAWN BY Edit Drummond	DATE Sept. 25 - 1929
TRACED BY A.V. Giuliany	SCALE 1" = 1000'
FLD. WK. BY P.H. Wright, Ahlstrom	CHECKED BY F. Phillians

APPROVED J. A. T.

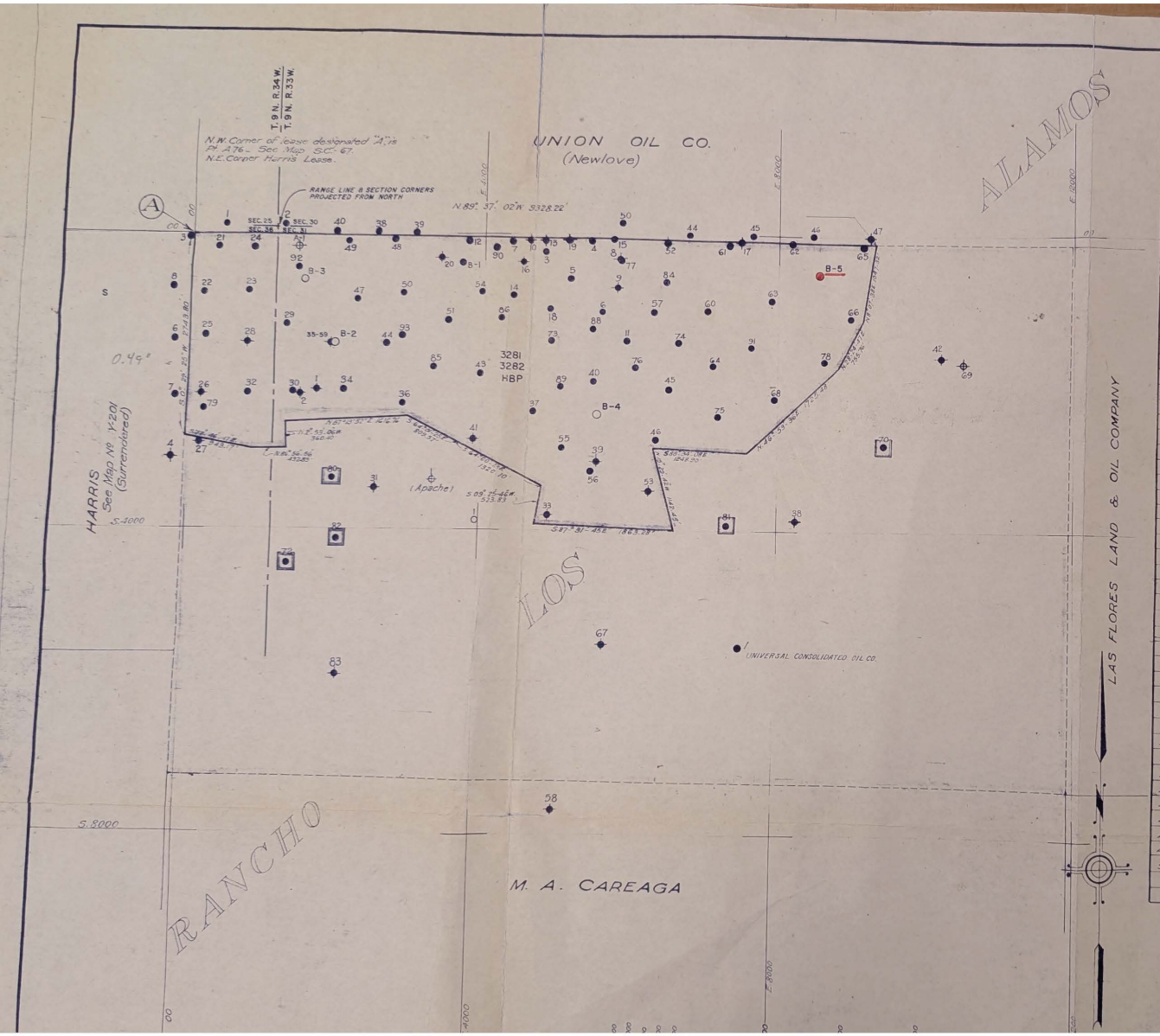
~~Y-152~~ Y-6-107

distances
Shell Oil Co's.
ess otherwise

lease data
ea within

29-70

SZ-163



LOCATION OF WELLS

(Origin of Coördinates at "A")

Well No	South Coordinates	East Coordinates	Elev.	Well No	South Coordinates	East Coordinates	Elev.
1	2095.48	1731.10	676.46 Ground	51	1144.88	3521.88	746.76 DK. Floor
2	2159.48	1503.70	681.26 Ground	52	95.51	6479.12	1069.78 DK. Floor
3	233.09	4824.52	833.63 DK. Floor	53	9439.98	6254.82	
4	58.30	5460.01	871.03 DK. Floor	54	762.15	5969.65	769.84 DK. Floor
5	601.84	5183.80	827.62 DK. Floor	55	2875.27	5109.00	829.42 DK. Floor
6	1044.47	5624.47	856.62 DK. Floor	56	3194.63	5485.72	861.75 DK. Floor
7	86.86	4381.48	842.87 DK. Floor	57	1025.41	6303.98	938.93 DK. Floor
8	309.36	5839.30	837.30 Ground	58	7665.80	5084.01	
9	702.70	5812.35	879.21 Ground	59	1473.58	1894.77	746.78 Ground
10	50.71	4611.68	827.68 Ground	60	999.51	7035.19	993.93 DK. Floor
11	1430.56	5945.13	919.93 DK. Floor	61	122.87	7303.75	986.66 DK. Floor
12	76.74	3736.54	839.82 DK. Floor	62	102.10	8161.87	972.78 DK. Floor
13	53.55	4817.87	852.30 Ground	63	863.14	7916.93	941.37 DK. Floor
14	813.52	4394.22	828.80 DK. Floor	64	1742.06	7116.09	946.07 DK. Floor
15	60.15	5744.01	838.13 DK. Floor	65	118.71	9131.36	978.00 DK. Floor
16	362.59	4514.17	803.23 Ground	66	1098.44	8977.40	969.72 DK. Floor
17	71.23	7476.20	963.53 Ground	67	5493.11	5689.48	1013.53 Ground
18	998.32	4899.37	904.08 DK. Floor	68	2203.33	7957.32	879.95 DK. Floor
19	51.59	5141.28	914.03 Ground	69	1727.01	10515.09	971.28 Ground
20	314.63	3409.18	814.85 Ground	70	2829.88	9425.08	973.14 DK. Floor
21	154.19	359.58	822.12 DK. Floor	71			
22	781.12	179.45	773.89 DK. Floor	72	4428.61	1394.26	763.19 DK. Floor
23	763.91	789.61	774.20 DK. Floor	73	1421.78	4917.69	1054.91 DK. Floor
24	162.55	843.96	842.57 DK. Floor	74	1433.86	6644.16	968.62 DK. Floor
25	1976.87	207.25	716.67 DK. Floor	75	2435.48	7184.18	887.75 DK. Floor
26	2173.77	177.09	679.21 Ground	76	1788.58	6075.47	1002.78 DK. Floor
27	2820.05	174.25	691.77 Ground	77	325.32	5861.28	913.24 DK. Floor
28	1469.36	779.67	720.95 Ground	78	1638.10	8620.48	919.24 DK. Floor
29	1218.07	1304.80	724.21 DK. Floor	79	2353.60	217.14	681.56 DK. Floor
30	2125.73	1407.02	678.36 DK. Floor	80	3281.06	1964.48	687.09 DK. Floor
31	3431.39	2573.54	771.32 Ground	81	3902.54	7322.60	903.23 DK. Floor
32	2151.43	804.60	661.28 DK. Floor	82	4108.54	2159.31	800.61 DK. Floor
33	3762.25	4935.62	851.23 DK. Floor	83	5300.35	2101.41	
34	2097.36	2103.26	686.31 DK. Floor	84	614.40	6468.14	1025.24 DK. Floor
35	1473.53	1894.76	746.78 Ground	85	1798.34	9317.27	994.37 DK. Floor
36	2280.26	2900.19	773.95 DK. Floor	86	1123.84	4235.55	939.28 DK. Floor
37	2383.81	4701.37	835.48 DK. Floor	87			
38	3832.33	8253.12	803.23 Ground	88	1260.97	5458.80	934.76 DK. Floor
39	3044.36	5566.34	862.05 Ground	89	2039.88	5077.69	938.07 DK. Floor
40	1985.04	5507.86	834.16 DK. Floor	90	764.41	4156.36	847.27 DK. Floor
41	2760.14	3908.55	797.43 Topazing	91	1501.02	7623.82	896.71 DK. Floor
42 = #69			Lost	92	433.34	1438.66	928.04 DK. Floor
43	1851.60	3967.02	921.50 DK. Floor	93	1378.42	2891.56	786.64 DK. Floor
44	1479.55	2683.04	708.13 DK. Floor				
45	2056.41	6513.23	1001.23 DK. Floor	A-L	162.31	1429.03	894.69 DK. Floor
46	2742.36	6345.58	1050.73 DK. Floor	B-2	1454'	1952'	754.90DE
47	864.01	2260.78	794.85 DK. Floor	B-3	623'	1518'	864.80DE
48	54.36	2769.14	747.15 DK. Floor	B-4	2439'	5566'	
49	57.05	2177.14	734.33 DK. Floor	B-5	525'	8550'	
50	803.26	2901.48	726.92 DK. Floor				

48	54.36	2769.14	747.15 Dk. Floor	B-4	2439'	5566'	
49	57.05	2117.14	794.99 Dk. Floor	B-5	525'	8550'	
50	803.26	2901.48	726.95 Dk. Floor				

1518 864.80 D.F.

REAGA

E. 8000

E. 1200

8000 600 400 200 0 1000 2000 3000

Scale in Feet

Note:- All courses and distances shown hereon, are from Shell Oil Co's. survey (see map SC-72) unless otherwise indicated.

See Map № SY-17 for lease data on traverse of reserved area within property lines.

Revised to 10-29-70

Supersedes Map SZ-163

Description of Lease:- Parcel-1 Beginning at a redwood stake which marks the Northwest Corner of that certain 9752.62 acre parcel or tract of land known as the Juan B. Careaga Tract of the Rancho Los Alamos, Santa Barbara County, Calif.; said Tract being described in Deed dated Oct. 27th. 1913 and recorded in Book 188, page 260, Records of Santa Barbara Co. Calif.; running thence along the West boundary of said above described Tract, S0. 21. 20 W. 2740.33' to a point on said West boundary line; thence S. 72° 00. 50 E. 942.10' to a point, thence N. 86° 06' 40" E. 433.30 to a point; thence N. 2° 53' 20 W. 361.17' to a point; thence N. 87° 06' 30 E. 1616.45' to a point; thence S. 64° 09' 25" E. 809.80 to a point; thence S. 64° 08' 50 E. 1520.40' to a point; thence S. 9° 16' 45" W. 523.09' to a point; thence S. 87° 40' 40" E. 1863.18' to a point; thence N. 15° 39' 30 W. 1141.87' to a point; thence S. 38° 42' 40 E. 1248.15' to a point, thence N. 46° 43' 30" E. 1723.85' to a point; thence N. 28° 14' 40 E. 755.50' to a point, thence N. 7° 57' 40 E. 1048.07' to a point on the North boundary of said Juan B. Careaga Tract; thence along North boundary of said Tract N. 89° 46' 50 W. 9325.53' to point of beginning.

Parcels Nos 2, 3, 4, 5 & 6: Those portions of said lands lying within an area, each 80 yards square, having those certain wells heretofore drilled to completion thereon under the aforesaid lease of March 14, 1900, and called Careaga Wells Nos. 80, 82, 72, 84, 70 as their centers.

Acreage:- 614.422 Ac. (Calc.)

Lessor M.B. Careaga et al

Date of Survey Oct. 1929 Map № SC.-72

Survey By: P.H. Wright & Ahlstrom Field Book № 338 & 189

SURVEY & DRAFTING DEPT.

SHELL OIL COMPANY

MAP OF CAREAGA LEASE

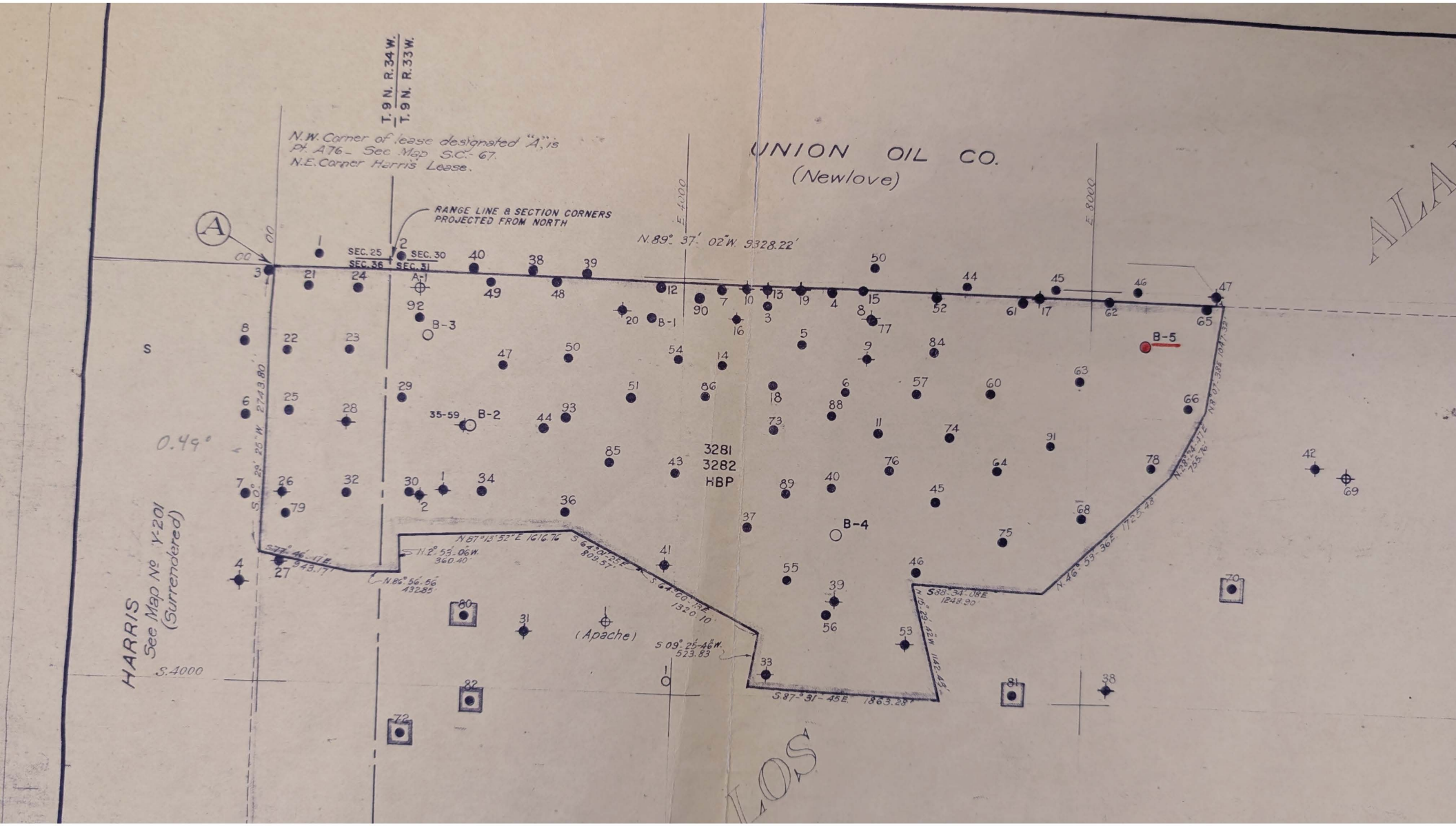
ORCUTT FIELD

SANTA BARBARA CO. CAL.

DRAWN BY E.H. Drummond	DATE Sept. 25 1929
TRACED BY A.V. Giuliani	SCALE 1" = 1000'
FLD. WK. BY P.H. Wright Ahlstrom	CHECKED BY F. Phillians

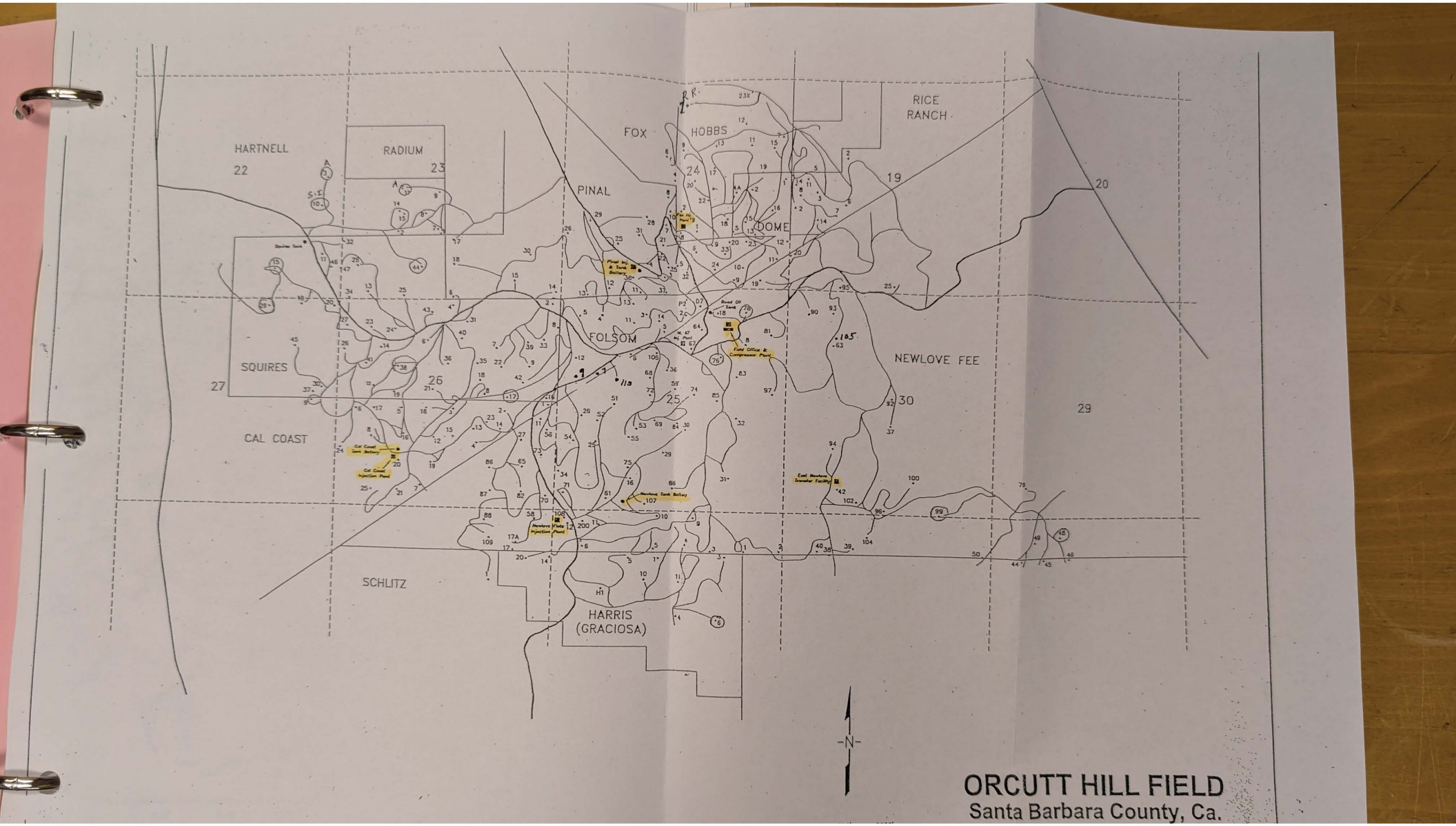
APPROVED J. G. J.

~~Y-152~~ Y-6-10

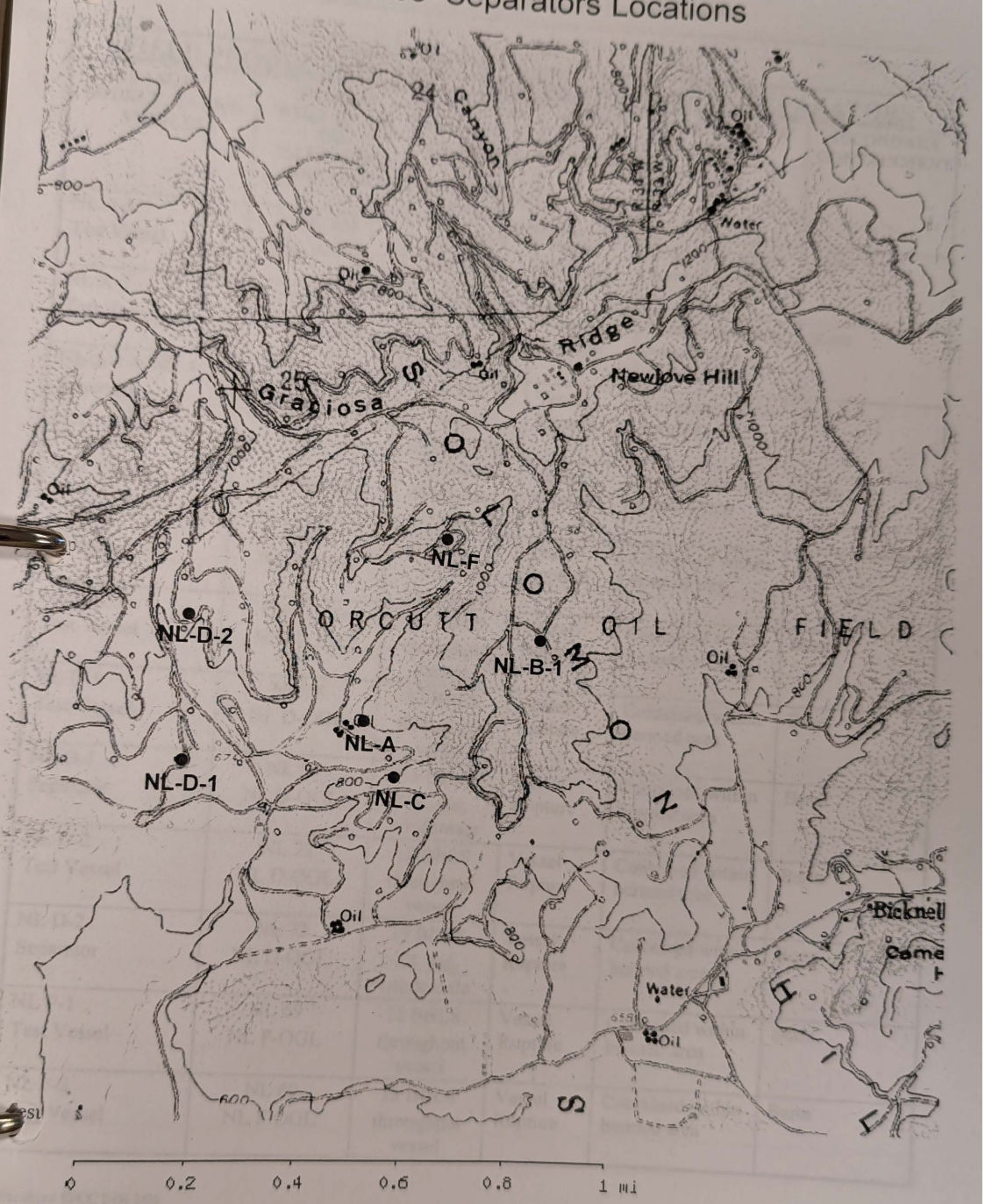

T. 9 N. R. 34 W.
T. 9 N. R. 33 W.
N.W. Corner of lease designated "A", is Pt. A76 - Sec Map S.C. - 67.
N.E. Corner Harris Lease.
UNION OIL CO.
(Newlove)
RANGE LINE & SECTION CORNERS PROJECTED FROM NORTH
N. 89° 37' 02" W. 9328.22'
E. 4000
E. 8000
SEC. 25
SEC. 30
SEC. 36
SEC. 31
A-1
B-1
B-2
B-3
B-4
B-5
35-59
3281
3282
HBP
0.49°
S. 0° 29' 25" W. 2743.80'
N. 87° 13' 52" E. 1616.76'
S. 64° 07' 25" E. 809.57'
S. 64° 00' 15" E. 1320.10'
S. 09° 25' 46" W. 523.83'
S. 87° 31' 45" E. 1863.28'
N. 19° 33' 42" W. 1142.43'
S. 38° 34' 08" E. 1248.90'
N. 46° 53' 36" E. 1725.43'
N. 28° 44' 17" E. 755.76'
N. 8° 07' 30" E. 1047.33'
S. 77° 46' 11" E. 943.17'
N. 2° 53' 06" W. 360.40'
N. 86° 56' 56" 432.85'
HARRIS
See Map No Y-201
(Surrendered)
S. 4000
(Apache)
ALA
LOS



Pinal-Dome Oil Co., Orcutt Hill
Santa Barbara County, California
1917


HARTNELL
RADIUM
22
23
FOX
HOBBS
RICE RANCH
PINAL
DOME
24
19
20
FOLSOM
SQUIRES
27
26
25
NEWLOVE FEE
30
29
CAL COAST
SCHLITZ
HARRIS (GRACIOSA)
N
ORCUTT HILL FIELD
Santa Barbara County, Ca.

• Newlove Lease Separators Locations



Orcutt Field

Careaga Lease SPCC Plan

DeHate, Annette

From: Richard Field [RField@smpacific.net]
Sent: Thursday, June 26, 2008 5:15 PM
To: DeHate, Annette
Subject: RE: Getti-Ten Careaga - 1,000 Bbl Replacement Tank

Thanks Annette.

Just to give you an update regarding the Tank Battery Facilities at the Careaga Lease:

- The Gitte-Ten 1,000 Bbl. Replacement Tank has not been delivered to the site and I have not been giv latest update as to when the tank will be installed. The tank liner, ring, and gravel pad have been insta
- The Gitte-Ten Tank Battery's original configuration consisted of two 1,000 Bbl. tanks and two 500 Bbl. four tanks were demoed earlier this year. Once the new tank is installed, the Gitte-Ten Battery will con 1,000 Bbl. tank (described in first bullet item) that will be designated as a gauging tank.
- Our Phoenix Careaga Tank Battery consists of three 1,000 Bbl. and one 2,000 Bbl tanks.
  - The 2,000 Bbl. tank is relatively new (mid to late 2007).
  - Earlier this year we demoed one of the existing 1,000 Bbl. tanks and have since replaced it wit 1,000 Bbl. capacity tank (Installed May 2008).

If necessary, would you like for me to fill out the Tank Inventory forms for each of the tanks described above?

Let me know.

Rich

Richard H. Field II
Regulatory Affairs Manager
SMP/PEL/GTL
Cell: (805) 266-9342
Office: (805) 938-3320
Fax: (805) 938-3340

From: DeHate, Annette [mailto:Annette.DeHate@conservation.ca.gov]
Sent: Thursday, June 26, 2008 4:35 PM
To: Richard Field
Subject: Re: Getti-Ten Careaga - 1,000 Bbl Replacement Tank

Hello Mr. Field,

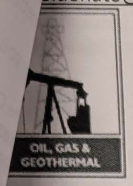
I was informed that you will be ready for inspection of your new Careaga tank soon. If you have not already d would you please fill out the attached tank inventory form and return it to us? Via email is perfectly appropria should wish to do that.

Thank you very much for your attention to this matter.

Respectfully,

Annette DeHate, Oil & Gas Technician II
State of California
Department of Conservation
Division of Oil, Gas & Geothermal Resources

anta Maria
dley Rd., #221
ia, CA 93455
246 office
9967 work cell
-0673 fax
e.dehate@conservation.ca.gov



From: Abel, Pat
Sent: Monday, June 16, 2008 9:31 AM
To: DeHate, Annette
Subject: FW: Getti-Ten Careaga - 1,000 Bbl Replacement Tank

To the Queen of Tanks – You may want to send them a form to complete and return upon the installation.

From: Richard Field [mailto:RField@smpacific.net]
Sent: Monday, June 16, 2008 9:22 AM
To: McNulty, Pam
Cc: Abel, Pat
Subject: RE: Getti-Ten Careaga - 1,000 Bbl Replacement Tank

Thanks Pam. We will schedule the appropriate inspection when we get close.

Rich

Richard H. Field II
Regulatory Affairs Manager
SMP/PEL/GTL
Cell: (805) 266-9342
Office: (805) 938-3320
Fax: (805) 938-3340

From: McNulty, Pam [mailto:Pmcnult@co.santa-barbara.ca.us]
Sent: Monday, June 16, 2008 9:22 AM
To: Richard Field
Cc: 'Abel, Pat'
Subject: RE: Getti-Ten Careaga - 1,000 Bbl Replacement Tank

Yes, received. Thank you Rich. Please remember to schedule the tank installation inspection and hydro test prior to initiation of production fluids to the tank.

Please call if you have any questions.

Thank you,

Nulty, Petroleum Specialist
ster Rd., Ste. B
ia, CA 93455
co.santa-barbara.ca.us
-6204 office, (805) 896-9843 cell
-6286 fax

his e-mail message is for the sole use of the intended recipient(s) and may contain confidential and privileged information. uthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender e-mail and destroy all copies of the original message.

: Richard Field [mailto:RField@smpacific.net]
: Monday, June 16, 2008 9:13 AM
McNulty, Pam
ject: Getti-Ten Careaga - 1,000 Bbl Replacement Tank

am,

ease find attached the APCD Authority to Construct (ATC) for a new 1,000 Bbl. above ground storage tank at the Gitte en Tank Battery at Careaga. The new tank will be designated as a gauge tank to handle total produced fluids and gas om the Gitte-Ten portion of the lease. This will allow enough residence time to collect an accurate reading of the olumes of produced oil and water for Royalty Payments to our respective Mineral Rights Holders. Crude oil and some produced water will be shipped from the new tank via lease pipeline to the Phoenix Wash Tank for sales.

As you already know, the existing tanks (2 – 500 Bbl and 2 1,000 Bbl) were previously demolished earlier this year to their age and integrity.

bout the tank permit package on your desk last Friday after receiving an Exemption from SB P&D (see attached receipt d permit application) earlier in the day.

Please let me know if you have any other questions.

Thanks,

Rich

Richard H. Field II
Regulatory Affairs Manager
SMP/PEL/GTL
Cell: (805) 266-9342
Office: (805) 938-3320
Fax: (805) 938-3340

REPORT OF OCCURRENCE

TYPE oil DATE 5/31/89
LOCATION Orcutt

Operator SWEPI Representative Joey Barulich Phone 349-7350

Occurrence Detected 5/31, 1989; 1030 am/pm

Occurrence Ended 5/31, 1989; 1000± am/pm * See below - cause section

Field Orcutt Sec., T., R. 31 9N 33W Lease and Well "Careaga" 4

Other Location Description Adjacent to Union's Newlove lease boundary

O.E.S. Notified? No (toll-free number: 800-852-7550)

C.D.O.G. Notified by (Name, Affiliation, Phone Number, and Time) same as above @ 1325

Volume of Spill ½ bbls oil; Ø bbls water

Areal Extent 1' by 60' down a paved lease road

Property or Waterways Damaged or Threatened No

Weather and Sea Conditions (Offshore Spills Only)

Injuries None

Source and Cause of Occurrence A leaky nipple on the test tank leaked when the fluid level on the test tank rose. When the level rose high enough the pump kicked on dropping the fluid level to below the nipple.

Containment and Cleanup A backhoe will dust the road and remove any oil not on the paved road.

Operator Plans to Prevent Reoccurrence The nipple has been replaced.

Estimate of Property Damage (dollar loss) _____ or Cleanup Cost _____

Additional Information Other agencies notified: w/c Santa Barbara Pet.

(Use reverse side if additional space is needed.)

Report Prepared by P. Truocchio Date 5-31-89

OG184 (1/88/DWRR/1M)

178

SM 44-89

34-97

104

REPORT OF OCCURRENCE

TYPE 0.7 DATE 5/29/97
LOCATION Orcutt

Operator Geo Petroleum Representative Gerry Raydon Phone good question N/A

Occurrence Detected 5/29, 1997; 1400 am/pm

Occurrence Ended ✓, 19✓; 1630 am/pm

Field Orcutt Sec., T., R. 5-8N-33W Lease and Well "Careaga" 45

Other Location Description

O.E.S. Notified? ✓ (toll-free number: 800-852-7550)

C.D.O.G. Notified by (Name, Affiliation, Phone Number, and Time) OES Fax 11:47 5/30/97

Volume of Spill 5-10 bbls oil; bbls water

Areal Extent 100' x 150' misted

Property or Waterways Damaged or Threatened

Weather and Sea Conditions (Offshore Spills Only)

Injuries Temporary hearing loss to Bob Mounts. See attached.

Source and Cause of Occurrence Valve stem packing failure. See attached

Containment and Cleanup See attached.

Operator Plans to Prevent Reoccurrence See attached.

Estimate of Property Damage (dollar loss) or Cleanup Cost

Additional Information See attached.

(Use reverse side if additional space is needed.)

Report Prepared by R Brownell Date 5/30/97

OG184 (8/92/GSR1/1M)

34-97

113

GOVERNOR'S OFFICE OF EMERGENCY SERVICES
Hazardous Materials Spill Report

DATE: 05/30/97 TIME: 1132	RECEIVED BY: OES - Bill Pennington OSPR -	CONTROL#: 97-2191

1. PERSON NOTIFYING GOVERNOR'S OES:

a. NAME:	b. AGENCY:	c. PHONE#:	d. Ext:	e. PAG/CELL:
John Manzo	Avanti Environmental	916-791-9262		

2. SUBSTANCE TYPE:

2. a. SUBSTANCE:	b.QTY: > = <	*Amount*	*Measure*	c. TYPE:	d. OTHER:
1. Crude oil	<	10	Bbl.(s)	PETROLEUM	
2.	=				
3.	=				
4.	=				

e. DESCRIPTION: While trying to fix a leak in a line a valve blew off the line. Possible loss of hearing for one employee.

f. CONTAINED:	g. WATER INVOLVED:	h. WATERWAY:
Yes	No	

3. a. INCIDENT LOCATION: Orcutt, Well 45-5,

b. CITY:	c. COUNTY:	d. ZIP:
Unincorporated county area	Santa Barbara County	

4. INCIDENT DESCRIPTION:

a. DATE:	b. TIME *(Military)*:	c. SITE:
05/29/97	1400	Oil Field

d. INJURIES#	e. FATALS #:	f. EVACS #:	g. CLEANUP BY:
1	0	0	Reporting Party

5. RESPONSIBLE PARTY:

a. NAME:	b. AGENCY:	c. PHONE#:	d. EXT.:
John Manzo	Avanti Environmental	916-791-9262	

e. MAIL ADDRESS:	f. CITY:	g. STATE:	h. ZIP:
367 Van Ness Wat	Torrance	CA	90501

6. NOTIFICATION INFORMATION:

a. NRC#:

b. ON SCENE:

c. OTHER ON SCENE:

d. OTHER NOTIFIED: Co. Hazmat,

e. ADMIN. AGENCY: Santa Barbara County Environmental Health

f. SEC. AGENCY:

g. NOTIFICATION LIST: DOG Unit: 3 RWQCB Unit: 3

[X] AA/CUPA	[X] DFG-OSPR	[ ] EMSA	[ ] OES PLANS UNIT	[X] RWQCB	[X] USFWS
[ ] AIR RESOURCES BD	[ ] DHS-DTO	[ ] FEMA	[ ] OES REG	[X] SFM	[ ] OTHER
[ ] CALTRANS	[X] DOG	[ ] FOOD & AG	[ ] OSHA	[X] US EPA	
[ ] CDF	[X] DTSC	[ ] LANDS	[ ] PARKS & REC	[ ] USMMS	
[ ] COASTAL COM	[ ] EB PARKS	[ ] OES HAZMAT UNIT	[ ] PUC	[ ] USCG	

#2

FAXED 8485 FAXED OES FAXED Kristy

DOGGR 937-0673

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170
(805) 686-8183 anytime after 12PM

1. INCIDENT AND RESPONSE DESCRIPTION

911 CALLED? ☐ YES ☒ NO

Date / Time Discovered 9/23/06 3PM	Date / Time Discharge 9/24/06 — Discharge Stopped ☒ Yes ☐ No
Incident Reporting Date / Time 9/24/06 ~~8:30AM~~ 9:15 AM	
Incident Business / Site Name Phoenix Energy, Careaga Lease	
Incident Address 7480 Graciosa Road, Careaga Lease	
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS) well B-5	

Please describe the incident and indicate specific causes and area affected. Suspected hole in tubing, water came out from API ring at surface into the well cellar; cellar filled up & spilled over produced water.

Indicate actions to be taken to prevent similar spills from occurring in the future. Rig to be on well 9/25, tubing ready to be replaced w/packer. (Suspected cause, will not know till tomorrow when tubing pulled. Tightened API ring studs 9/23; 9/24 still leaking, shut down lease until rig arrives

2. ADMINISTRATIVE INFORMATION

Business Name Phoenix Energy, Inc.	
Address 2275 Corbett Canyon Road, San Luis Obispo, CA 93401	
Supervisor in charge at time of incident Doug Chandler	Phone 331-3341
Contact Person Bruce Falkenhagen	Phone 544-2153

3. CHEMICAL / RELEASE INFORMATION

CALL 911 FOR ANY RELEASES INTO WATERWAYS, WETLANDS, OR AGRICULTURE AREAS.

Chemical Produced water	Quantity 50 bbls	☐ GAL ☐ LBS ☐ FT³
Chemical	Quantity	☐ GAL ☐ LBS ☐ FT³
Chemical	Quantity	☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline: well cellar sucked out 9/23 as soon as vacuum truck got there (~4:15), tightened up flange studs and checked on AM, still leaking, shut in lease.

Completed By E. Falk Phone 544-2153 9:15 AM

Print Name Bruce Falkenhagen Title Manager Date and Time 9/24/06 ~~8:30AM~~

SANTA BARBARA COUNTY FIRE DEPARTMENT PROTECTION SERVICES DIVISION USE ONLY

Date Received 9/25/06	Time 05:00	OES Control #	CIR # N-298-06
Received By RonWynn		Assigned To KristyTreus	ER ☐ Yes ☐ No
Date / Time Reported to 911		Late Report ☐ Yes ☒ No	INCIDENT #
From 911 Dispatch ☐ Yes ☒ No	Dispatch Requested HMU Respond ☐ Yes ☒ No		Time of Dispatch Request
Time HMU Responding	Time On Scene	Time Back in Service	☐ Joint ☐ Multi-Agency
PROP 65 ☒ YES ☐ No	DATE/TIME TO HCS 9/25/06 07:54	DATE/TIME TO COUNTY OES 9/25/06 07:54	
MATERIAL		VOLUME	
HAZARD		EVACUATION/ACCESS RESTRICTED ☐ YES ☐ No	

Current Status: ☐ Clean-Up Underway ☐ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

COMMENTS

NOTIFICATION CHECKLIST: ☒ COUNTY OES ☐ STATE OES RESPONSE — CODE 20 ☐ YES ☐ NO ☐ UNKNOWN — ☒ COUNTY PETROLEUM ☐ STATE DOGGR — ☐ COUNTY AG COMM ☐ STATE FISH & GAME — ☐ LOCAL FIRE _____ ☐ ROAD DEPT ☐ STATE RWQCB — ☐ APCD ☐ CHP ☒ EHS — ☐ CAL TRANS ☐ CALOSHA ☐ DTSC

DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

5075 S. Bradley Rd. • Suite 221 • SANTA MARIA, CALIFORNIA 93455

PHONE 805 / 937-7246 • **FAX** 805 / 937-0673 • **WEBSITE** conservation.ca.gov

October 5, 2006

Bruce Falkenhagen, Agent
Phoenix Energy, Inc.
2275 Corbett Canyon Road
San Luis Obispo, CA 93401

Re: Produced Water and Oil Spills
Orcutt Field, Careaga Lease
Section 31, T.9N R.33W S.B. B&M

Dear Mr. Faulkenhagen:

An inspection of your tank setting on the above referenced lease, and discussion with you on Friday, September 29, 2006, indicated there has been some releases of produced water and oil from the Careaga lease tank setting.

Also, an ongoing release of water, reported to be fresh water used for cooling the vapor recovery compressor, was being discharged into a dry drainage ditch south of the facility. Any fluid discharge from a processing facility that has or may have a detrimental impact on the environment is not allowed.

Oil leakage was also noted from an out of service tank, south of well "Careaga" 16. It appeared the oil might have been leaking from underneath the tank.

An inspection of the "Careaga" B-5 well location indicated the produced water spills at that location, that occurred on September 23rd and 24th, 2006, had been adequately cleaned up. California Code of Regulations section 1774 (b) states all production equipment and facilities shall be maintained in a manner to prevent leakage.

The releases of produced water and oil from your facilities and equipment constitute deficiencies in your operations. Continued releases of produced water and oil, and failure to report the releases in a timely manner could result in issuance of a notice of violation and possible imposition of civil penalties.

You indicated the following actions would be taken to address the releases of fluid from the "Careaga" lease tank setting:

1. Re-route the injection pump bleeder so that any release will discharge into the containment pit on the southwest corner of the facility.
2. Obtain an analysis of the water discharge going into the drainage ditch on the south side of the tank setting.
3. Re-route the "fresh" water discharge from the vapor recovery cooling system into a holding tank.
4. Sample the oil-contaminated soil south of the fluid containment pit and remove the impacted material under the direction of the Santa Barbara County Fire Department, Protective Services Division.
5. Promptly report any fluid releases arising from your operations to the proper authorities or agencies having regulatory oversight of such releases.

Above items 1 – 4 are to be completed within 30 days from the date of this correspondence. Please notify this office so that a re-inspection may be conducted when the items are completed. Item 5 must be implemented immediately. Please ensure your staff and spill plan reference this procedure.

The out-of-service tank south of well "Careage" 16 must have the fluid removed to prevent any further leakage. This is to be done within 7 days from the date of this correspondence. Also, the oil-contaminated soil must be removed and stored according to the Regional Water Quality Control Board and Santa Barbara County Fire Department, Protective Services Division guidelines. If the tank is to be returned to service, you must demonstrate the integrity of the tank, including the bottom, before placing it back in service.

If you have any questions regarding the above, please contact our office at 805-937-7246. The inspecting engineer was J.R. Carnahan.

Sincerely,

William E. Brannon

William E. Brannon
Deputy Supervisor

cc: Santa Barbara County Fire, Protective Services Division, Kristy Treur
California Department of Fish & Game, J.Dostal
Santa Barbara County Petroleum Department
Ramon Elias, Phoenix Energy
Deficiencies

DOGGR Ref. No. 74 & 75

REPORT OF OCCURRENCE

TYPE _____ DATE _____

LOCATION _____

Operator SM Pac Phoenix Representative Rich Field Phone (805) 268-4140

Occurrence Detected 8/3/07 (month, day), _____ (year); 1030 (am)/pm

Occurrence Ended 8/3/07 (month, day), _____ (year); 1040 (am)/pm

Field Orcutt Sec., T., R. _____ Lease and Well "Careaga" 37

Other Location Description dry wash near well location

O.E.S. Notified? w/c (toll-free number: 800-852-7550)

DOGGR Notified by (Name, Affiliation, Phone Number, and Time) R. Field Phoenix

Volume of Spill 20 bbls oil; unknown bbls water

Areal Extent _____

Property or Waterways Damaged or Threatened dry wash drainage channel that feeds into a blue line stream

Weather and Sea Conditions (Offshore Spills Only) N/A

Injuries None

Source and Cause of Occurrence Stuffing box leak

Containment and Cleanup back hoe, vac truck, roll off bins suck up free fluids & put in wash tank, soil in bins - will profile sample & send to SM dump or Kettleman

Operator Plans to Prevent Reoccurrence Preventative maintenance on stuffing boxes on all equip

Estimate of Property Damage (dollar loss) _____ or Cleanup Cost $60,000 ±

Additional Information

4:30 pm last Inspection
6:30 pm - 1030 production = 20 bbls
Cnty Petrol
Cnty fire
Fish n' game

Note - No cellar

(Use reverse side if additional space is needed.)

Report Prepared by PAbel/CNK Date 8/3/07

OG184 (8/99)

SM-07-58

192

Definition of and Coding for
Occurrences of Damage or Loss Resulting from Oil and Gas Resource
Exploration, Development, or Production Accidents

A. Personal injury - fatal or nonfatal

1. Persons employed by the petroleum industry, including contractors
2. General public

B. Property damage or destruction, such as buildings, equipment, vehicles, crops, material, land (restricted in this category to general degradation of utility, or public nuisance, i.e., eyesore; other land damage, such as by contamination, should be considered environmental, Category C).

1. Property directly involved in exploration, development, or production of oil and gas
2. Other private property
3. Public property (government owned)

C. Environmental damage to or loss of resources other than oil and gas

1. Contamination or pollution of
    a. atmosphere
    b. soil
    c. surface waters, including the ocean
    d. subsurface fresh water
2. Injury to
    a. fish
    b. wildlife
    c. trees
    d. plants

D. Resource loss

1. Damage to oil and gas reservoirs resulting in lost or reduced recoverability
    a. blowouts
    b. fires
    c. other accidents
2. Waste of recovered oil and gas resources
    a. spills
    b. fires
    c. explosions
    d. other accidents

GOVERNOR'S OFFICE OF EMERGENCY SERVICES

Hazardous Materials Spill Report

DATE: 08/03/2007 TIME: 1433	RECEIVED BY: OES - Courtland Ellis OSPR -	CONTROL#: OES - 07-4658 NRC -

1.a. PERSON NOTIFYING GOVERNOR'S OES:

1. NAME:	2. AGENCY:	3. PHONE#:	4. Ext:	5. PAG/CELL:
Richard Field	Phoenix Energy LLC	805-268-4140		

1.b. PERSON REPORTING SPILL (If different from above):

1. NAME:	2. AGENCY:	3. PHONE#:	4. Ext:	5. PAG/CELL:

2. SUBSTANCE TYPE:

2. a. SUBSTANCE:	b.QTY:>=<	*Amount*	*Measure*	c. TYPE:	d. OTHER:
1. Crude Oil	=	20	Bbl.(s)	PETROLEUM	
2.	=				
3.	=				

e. **DESCRIPTION:** Stuffing box failure on the well head caused this spill

f. CONTAINED:	g. WATER INVOLVED:	h. WATERWAY:	i. DRINKING WATER IMPACTED
Yes	No		No

3. a. INCIDENT LOCATION: Careaga Well #37 1555 Orcutt Hill Rd

b. CITY:	c. COUNTY:	d. ZIP:
Santa Maria	Santa Barbara County	93456

4. INCIDENT DESCRIPTION:

a. **DATE:**08/03/2007 b. **TIME** *(Military):* 1030 c. **SITE:** Oil Field

d. INJURIES#	e. FATALS #:	f. EVACS #:	g. CLEANUP BY:
0	0	0	Reporting Party

Same as #1."PERSON NOTIFYING OES"

5. SUSPECTED RESPONSIBLE PARTY:

a. NAME:	b. AGENCY:	c. PHONE#:	d. EXT.:
	Phoenix Energy LLC	805-268-4140	

e. MAIL ADDRESS:	f. CITY:	g. STATE:	h. ZIP:
1555 Orcutt Hill Rd	Santa Maria	CA	93456

6. NOTIFICATION INFORMATION:

a. ON SCENE:	b. OTHER ON SCENE:	c. OTHER NOTIFIED:
Fire Dept., Other	DOG 3	

d. **ADMIN. AGENCY:** Santa Barbara County Environmental Health e. **SEC. AGENCY:**

f. **NOTIFICATION LIST:** DOG Unit: 3 RWQCB Unit: 3

☒ AA/CUPA	☒ USFWS	☐ DHS-D.O	☐ FOOD & AG	☐ OSHA	☐ USCG
☒ DFG-OSPR	☐ AIR RESOURCES BD	☒ DOG	☐ LANDS	☐ PARKS & REC	☐ USDOI
☒ DTSC	☐ CALTRANS	☐ SF PARKS	☐ OES HAZMATUNIT	☐ PUC	☐ OTHER
☒ RWQCB	☐ CDF	☐ EMSA	☐ OES PLANS UNIT	☐ SFM	
☒ US EPA	☐ COASTAL COM	☐ FEMA	☐ OES REG	☐ USMMS	

SM-07-58

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Regional Water Quality Control Board

COUNTY OF SANTA BARBARA HEALTH

one COUNTY one FUTURE

Mouhanad Hammami, MD, MHSA Director
Gustavo A. Mejia, CPA Chief Financial Officer
Lars Seifert, MA, REHS Deputy Director
Dana Gamble, LCSW Deputy Director
Josephine Preciado, MD Chief Medical Officer
Henning Ansorg, MD, FACP Health Officer

May 16, 2025

Mr. Peter Kiesecker
Solstra Communities California, LLC
1555 Orcutt Hill Road
Orcutt, CA 93455
(peter@pacifickies.com)

Subject: Phase II Investigation and Remedial Action Plan
Solomon Hills, Santa Barbara County, California
APNs 101-020-085, 101-202-086, and 101-202-087
SMU Site # 20271
Global ID: T100000226945

Dear Mr. Kiesecker:

The County of Santa Barbara Health Department, Environmental Health Services Division (EHS), Site Mitigation Unit (SMU) has reviewed the June 27, 2024 document prepared by your consultant Waterstone Environmental, Inc., titled *Phase II Investigation and Remedial Action Plan, Solomon Hills, Santa Barbara County, California* (*RAP*).

The proposed Solomon Hills development (Site) is comprised of approximately 1,903 acres on portions of the Newlove and Careaga oil and gas leases within the Orcutt Hills oilfield. The proposed development will include up to 4,000 residential units, schools, retail space and offices, a village center, and between 1,000 and 1,200 acres of open space and parks. Portions of the Site will also serve as habitat for protected wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park.

The site has 30 active oil and gas wells, 3 idle wells (1 injection), 27 plugged and abandoned wells, and associated infrstructure. During the redevelopment process, all oil and gas extraction activities and infrastructure within the Site will be permanently abandoned. This will include abandonment of all oil and gas wells and removal of pipelines, tanks, ancillary equipment, and sumps.

The *RAP* documented the collection and analysis of soil samples from 19 locations at depths up to 30 feet below ground surface (bgs). Soil vapor probes were installed in 10 of the boreholes at depths ranging from 10 to 20 feet bgs. Soil samples were analyzed for Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Metals, and/or Polychlorinated Biphenyls (PCBs). Soil vapor samples were analyzed for VOCs.

Elevated concentrations of TPH and related chemicals of concern (VOCs and SVOCs) were detected in two of the soil borings. Elevated concentrations of VOCs were detected in soil vapor samples from those two borings plus one additional boring. Elevated concentrations of metals were found in two soil samples. PCBs were not detected in the soil samples. This current sample results were compared to previous sample data that were collected over the last 20 years and found to be consistent.

The *RAP* proposes to delineate and remediate soil impacts during well abandonment activities. Historical data from the sampling events was used to estimate the amount of potential impacted soil requiring remediation. Soil with TPH impacts exceeding cleanup goals will be excavated and either remediated onsite, placed at depth in non-residential areas, or disposed of offsite. Confirmation soil samples will be collected to verify that the that area has been remediated to standards suitable for residential land use. The Residential San Francisco Bay RWQCB Environmental Screening Levels (ESLs) will be used as the cleanup goals for shallow soil in residential areas. However, soil with concentrations that exceed the ESLs may be used in non-residential areas and at depths far below final grade. Once EHS has confirmed that remediation is complete, the area will be graded for redevelopment. A Soil Management Plan will be prepared to address any areas of soil impacts that might be encountered during grading.

After careful review of the *RAP* and site file, EHS has the following comments and directives:

1. EHS requires permits for soil borings that are advanced into or within 10 vertical feet of groundwater. Based upon the boring logs, groundwater was not encountered in the soil borings performed in the *RAP*. Regardless if a permit is needed, all borings shall be backfilled per California Well Standards, Bulletin 74-90, Monitoring Wells, Part III, Section 19(B) or, in the case of vapor probes, per the 2015 DTSC/LARWQCB Soil Gas Investigation Advisory. Please ensure all future soil borings conform to permitting and abandonment requirements.

2. A review of historic data indicates that numerous samples with the elevated TPH values were not analyzed for VOCs, SVOCs, and/or metals (i.e. CL-W-63P-10, CL-W-63P-5/15, D-2-20, etc.). As this limited analysis may skew the evaluation of the potential impacts, additional sampling is required to evaluate Constituents of Potential Concern (COPCs) at the Site.

3. Metal and SVOC data from sample AD-2-5 is missing from Table 3.

4. Samples with carcinogenic PAHs need to be compared to Benzo(a)Pyrene (B(a)P) by using their respective Toxicity Equivalency Factor and then summed to obtain a B(a)P Toxicity Equivalency Quotient. These calculations must be included in the tables.

5. The *RAP* lacks detailed maps at each feature where soil sampling occurred. Figures depicting sample locations with respect to pertinent landmarks (e.g. wellheads, pipelines, historic surface infrastructure, topography, etc.) is required. At this time,

EHS is unable to determine if the samples that were collected at appropriate locations or if they provide meaningful data.

6. The Santa Barbara County Petroleum Code (Section 25-31) states that sites must be restored to their original condition upon the abandonment of oilfield features. If cleanup to background conditions cannot be obtained, then the cleanup shall be completed to unrestricted landuse, which is typically Tier 1 ESLs. Thus, in addition to residential ESLs, ecological risk and leaching to groundwater risk, as appropriate, must be considered when proposing remediation goals.

7. As discussed in our April 26, 2025 and May 12, 2025 meetings, the proposal to bury impacted on site at depth would require approvals from multiple agencies and create a de facto landfill on site. If approved, this soil would require ongoing monitoring to verify that contaminants are not migrating. The approval process would likely be quite onerous and its approval is not guaranteed. It is EHS' understanding that this proposal no longer being considered.

8. The *RAP* used data from random samples collected at a subset of features to extrapolate how many features were likely to be impacted. It then multiplied the number of potentially impacted features by an estimate of impacted soil at each feature to determine the total volume of soil that will need to be either removed or treated for this project. The actual assessment and excavation of impacted soil around any specific feature is proposed to occur when the well is located for abandonment, when infrastructure is removed, and/or when encountered during grading. EHS does not object to corrective action consisting of the excavation and either offsite disposal or biotreatment of impacted soil. However, as proposed, this method is vague and does not follow industry standards that require an accurate assessment of impacts at each feature prior to developing a corrective action plan. As such, EHS cannot approve the corrective action proposed in the *RAP*, at this time.

9. In order to develop an acceptable corrective action plan, EHS requires the following:
    a. Identify all potential features that need to be evaluated within the Site boundaries. These features shall include the potential features identified in the Harding ESE 2001 and Waterstone 2004 Phase I assessments. If possible, the 1995 Dames and Moore Phase I and 1995 Phase ENSR Phase II referenced in the 2001 Phase I should be reviewed for historical information on the features. A current Phase I is also needed to determine if additional features requiring investigation exist on the site, as these previous Phase I reports are outdated by over 20 years;
    b. Develop a sampling plan for each of these features.
    c. If impacts are found at a feature, then additional sampling will be required to sufficiently delineate the vertical and lateral extent of all COPCs above screening levels. This will be an iterative process that may take multiple sampling events. You will be required to submit workplans and assessment reports to EHS for review and approval for each sample event.

d. Once all features have been evaluated and features with impacts have been delineated, then a Corrective action plan can be developed and submitted to EHS for review.
e. As stated in our previous meetings, due to the size of this project, each identified feature requiring remediation will require a closure report. If the corrective action at each specific feature has been successfully completed, then EHS will issue a No Further Action letter for that feature. EHS understands that the redevelopment project may proceed in several phases. As remediation progresses, once all features within a phase have been completed, EHS can issue a clearance/no further action letter for that phase. This would then allow development to proceed in that phase. Once corrective action has been completed in all of the phases, EHS would be able to issue a project closure letter.
f. Once all features in a development phase have been remediated, there is still a potential to encounter contaminated soil at the site. Thus, each phase will require a Soils Management Plan. This document shall at a minimum:
    i. Identify COPCs detected within the development phase;
    ii. Depict the location of features investigated and any remedial excavations that have occurred within the development phase;
    iii. Identify any areas where residual contaminants are left in place;
    iv. Outline the procedures and methods for identifying characterizing, handling, and disposing of potentially impacted soil;
    v. Include agencies that need to be notified when encountering potentially impacted soil; and
    vi. Outline the types of documents that need to be submitted upon completion of remediation of the impacted soil (e.g. GeoTracker uploads, completion reports, etc.).

10. Submit a current Phase I and comprehensive work plan to EHS. The work plan shall outline the methodology for investigating the historical features and those identified in the current Phase I. Please upload these documents to GeoTracker by **July 11, 2025**.

If you have any questions regarding the aforementioned, please do not hesitate to call me at (805) 346-8216. Written correspondence regarding this matter should be sent to EHS at 2125 S. Centerpointe Parkway, Room 333, Santa Maria, CA 93455, via facsimile to (805) 346-8485, or via email at tom.rejzek@sbcphd.org.

Sincerely,



Thomas M. Rejzek
Professional Geologist #6461
Certified Hydrogeologist #601
SMU Program

ec: GeoTracker Database
Mr. Abraham Casavantes, Santa Barbara County Petroleum Division (casavantesa@countyofsb.org)

Mr. Florentino Lopez, Santa Barbara County Petroleum Division (flopez@countyofsb.org)
Mr. David Vyenielo, Santa Barbara County Building and Safety (dvyeniel@countyofsb.org)
Mr. Errin Briggs, Santa Barbara County Planning (ebriggs@countyofsb.org)
Santa Barbara County Planning and Development, Solomon Hills Team (PADSolomonHills@countyofsb.org)
Mr. Jay Higgins (jay@higginsland.com)
Mr. Mark Shifflett, Waterstone Environmental, Inc. (mshifflett@waterstone-env.com)
Mr. Anthony Charleston (acharleston@tradecraftengineers.com)
Mr. Rich Field (rich.field@pceclp.com)
Mr. Hersel Zahab (Hzahab@ldc-ce.com)
Mr. Kevin Anderson (kwanderson@rrmdesign.com)

tmr:sh 20271 05_25

Summary of Phoenix Energy Inc.'s Discharges to Creek Bed and Waste Water Injection Into Unpermitted Idle Well

Various Activities of Careaga Hydrocarbons Inc., Project Manager, Reported by Phoenix Energy Inc., Project Owners

September & October 2006

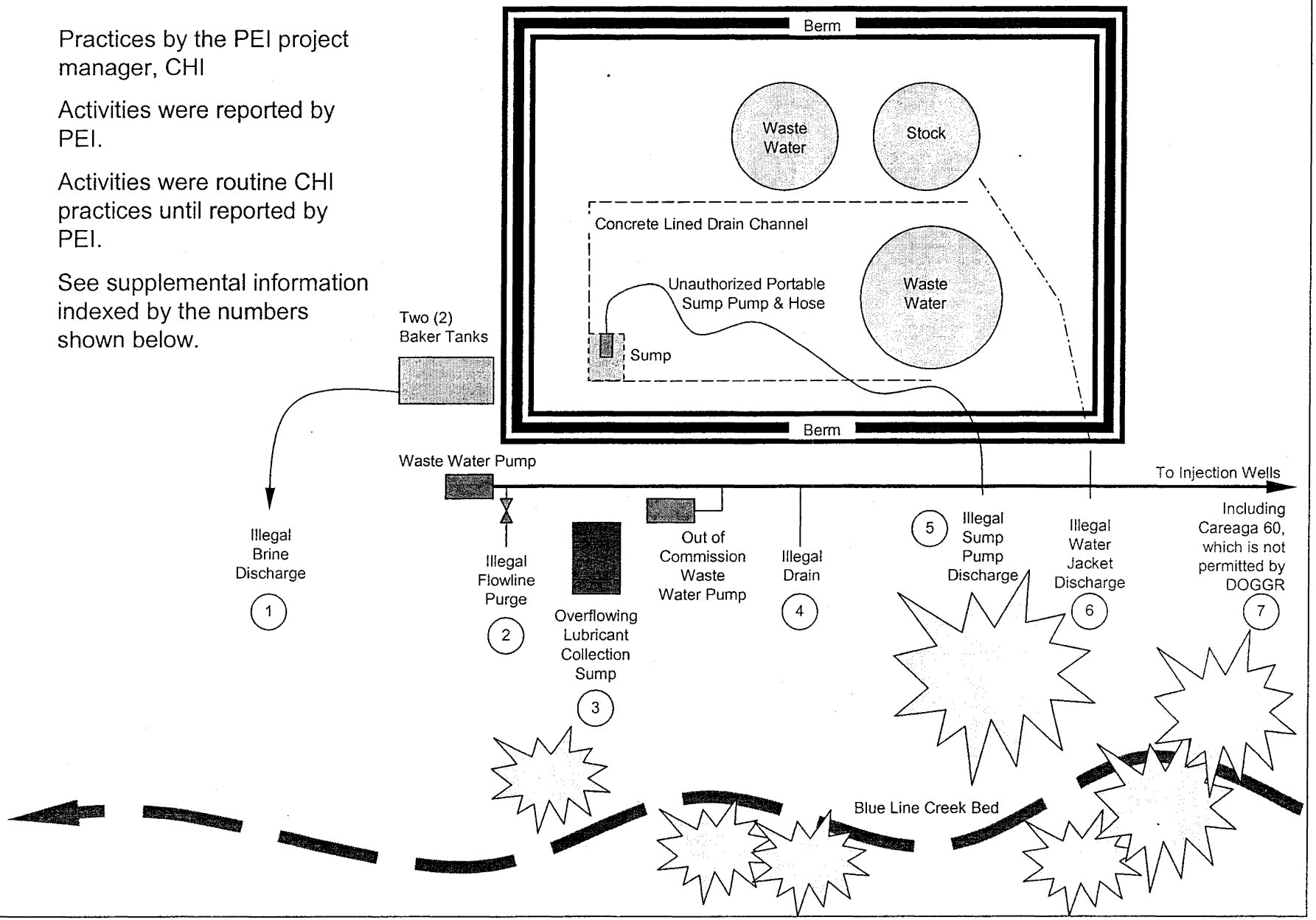
Schematic of Phoenix Energy Inc. (PEI) Production Tank Battery and Illegal Discharges Caused By Careaga Hydrocarbons Inc. (CHI) To Adjacent USGS Blue Line Creek

Practices by the PEI project manager, CHI

Activities were reported by PEI.

Activities were routine CHI practices until reported by PEI.

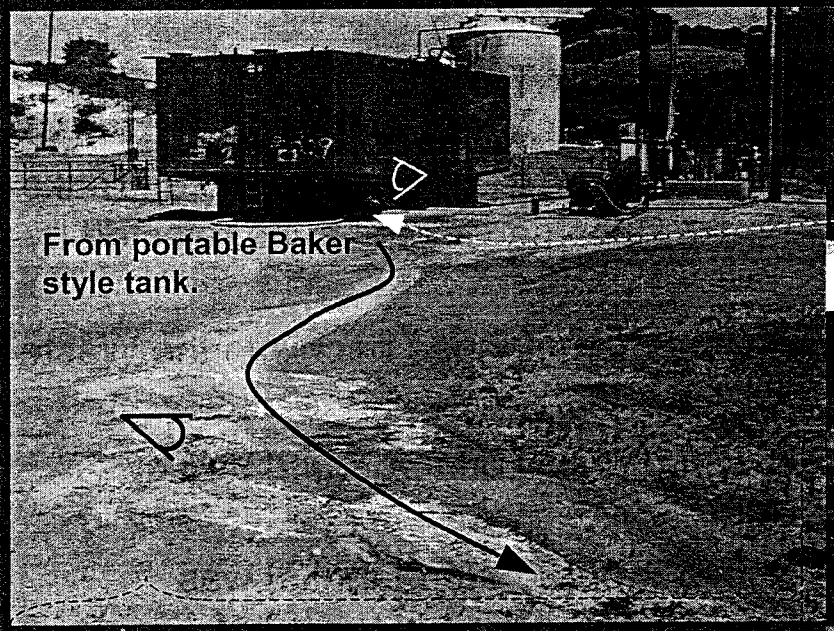
See supplemental information indexed by the numbers shown below.

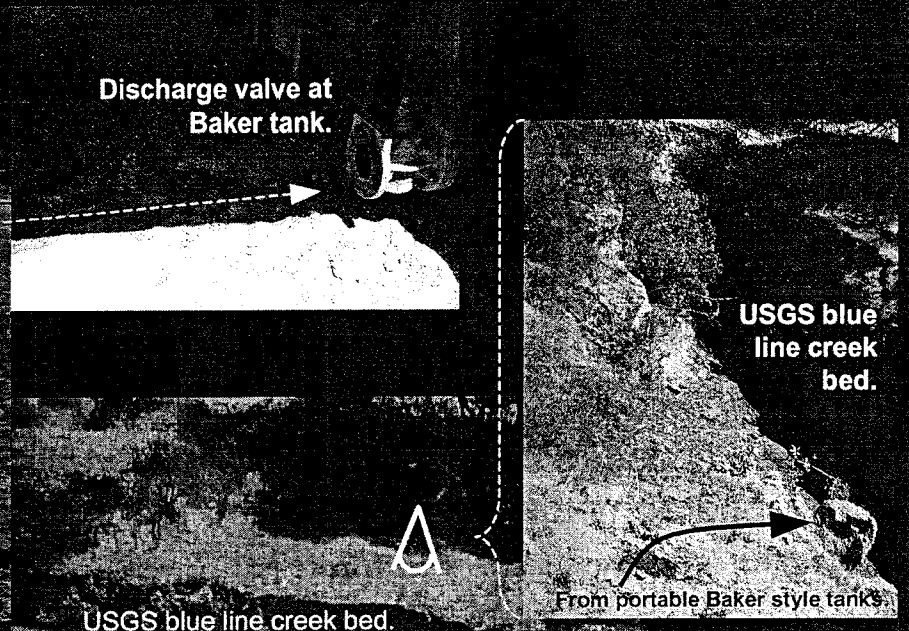


(1) Illegal Brine Discharge from Baker Tanks

- Oil and produced brine water from production tanks were transferred to Baker Tanks because well acid treatments upset oil/water separation causing oil to be rejected by purchaser.
- Water could have transferred to vacuum truck and then pumped back into the Waste Water Tank.
- CHI chose to open valve and allow produced water to flow on to ground and by topography toward the creek.
- CHI acknowledged at least 50 barrels (held within two-500 barrel tanks) was deliberately released.
- Our accounts indicate discharges occurred at various times July-September, 2006
- Analysis of water sample indicated a TDS level of 20,000 ppmv (copy of analysis completed by OEC of Santa Maria is attached). The results are consistent with brine characteristics from other produced water from PEI oil producing wells
- Photographs and supporting analysis,1A, 1B, 1C, 1D, 1E, and 1F, follow this summary page.

1A. Observed Indications Of Illegal Waste Water Discharge From Portable Baker Tanks





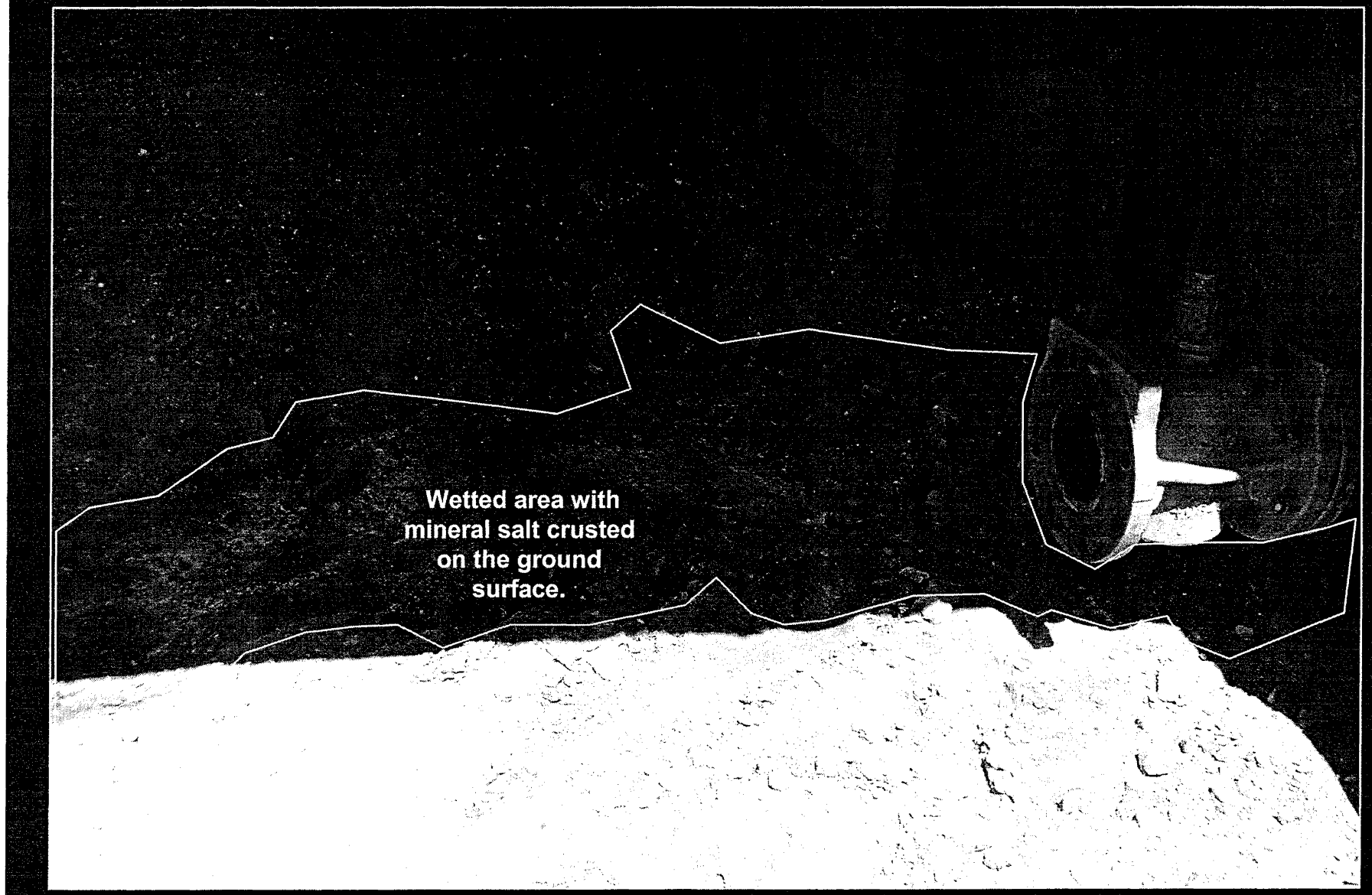




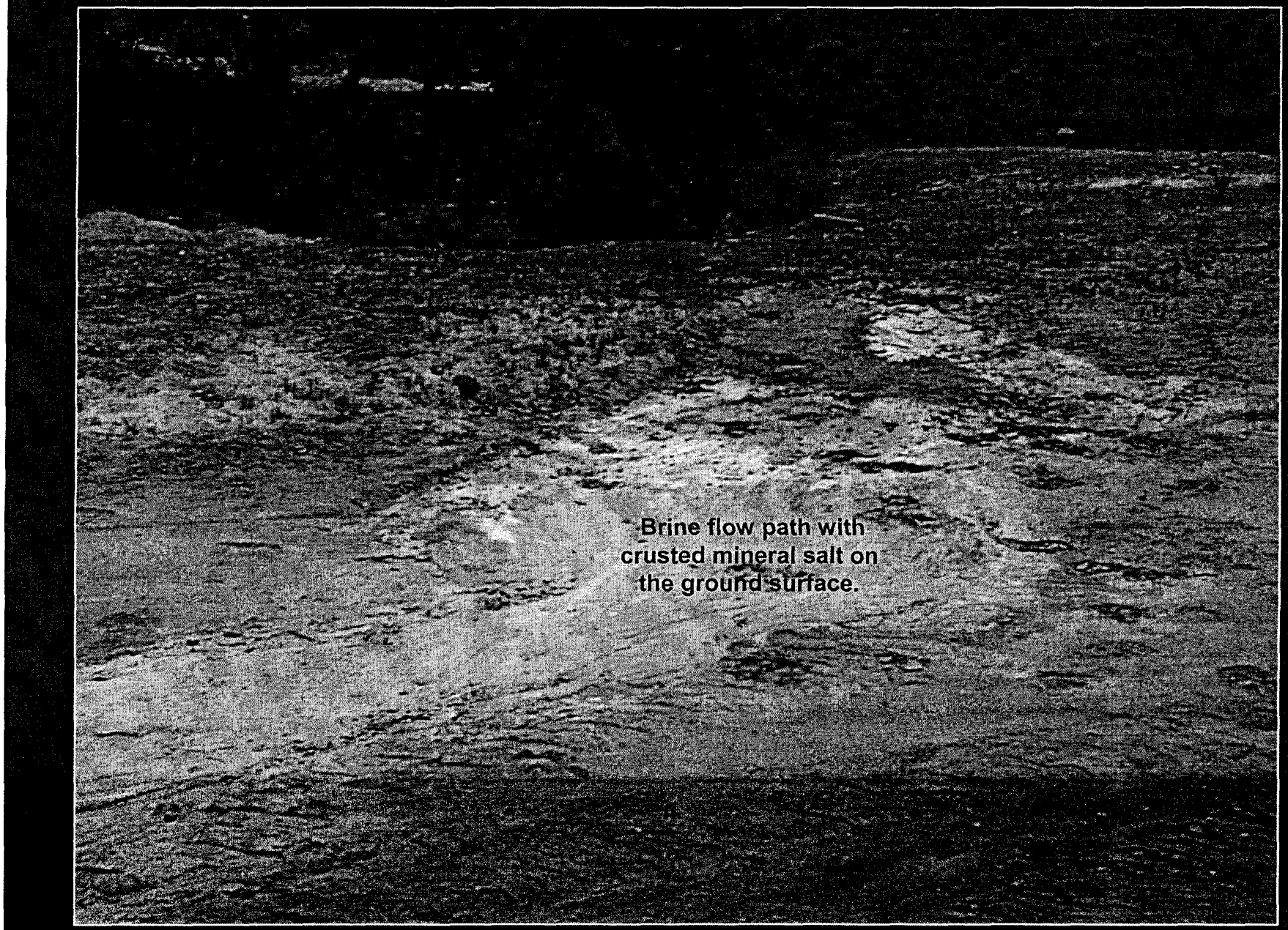
1B. Enlarged View of Baker Tanks And Mineral/Water Trail



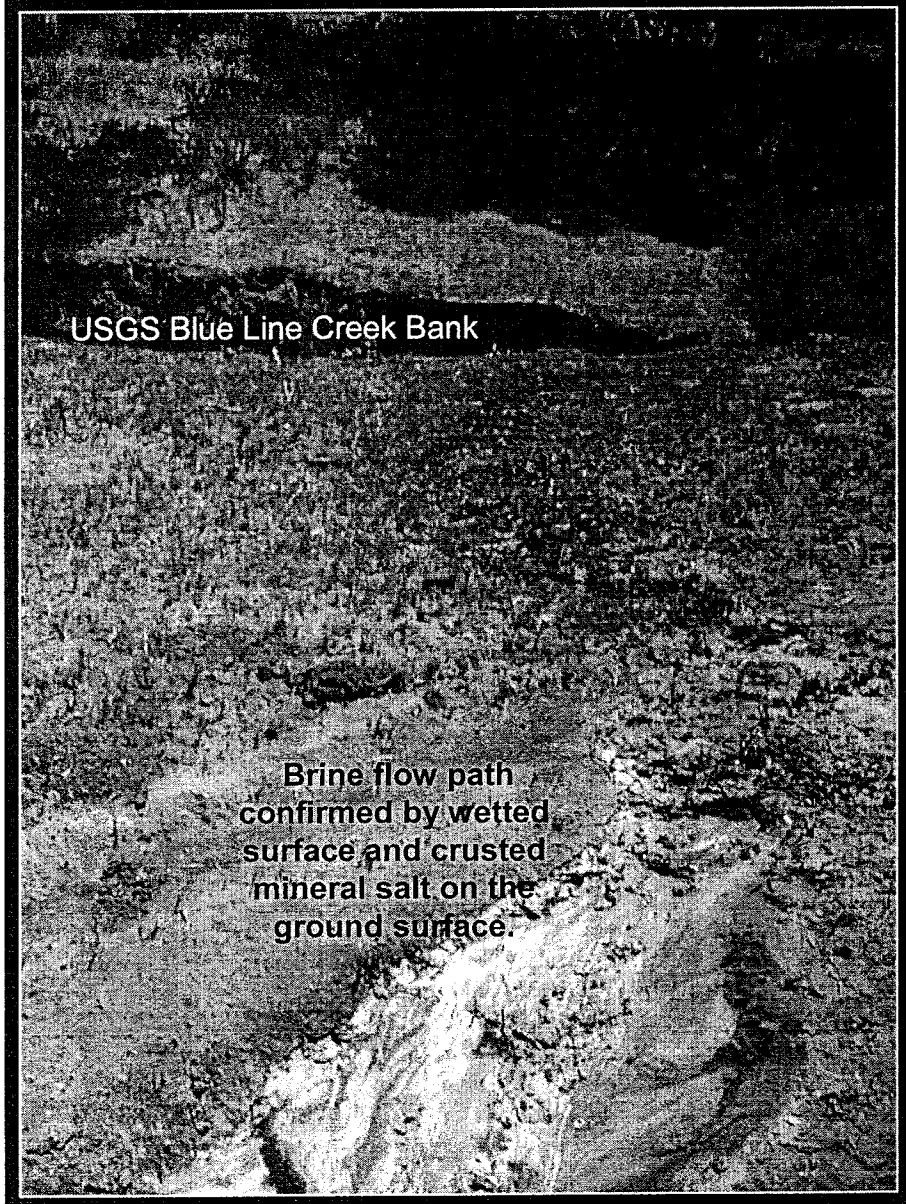
1C. Portable Baker Tank Drain Valve

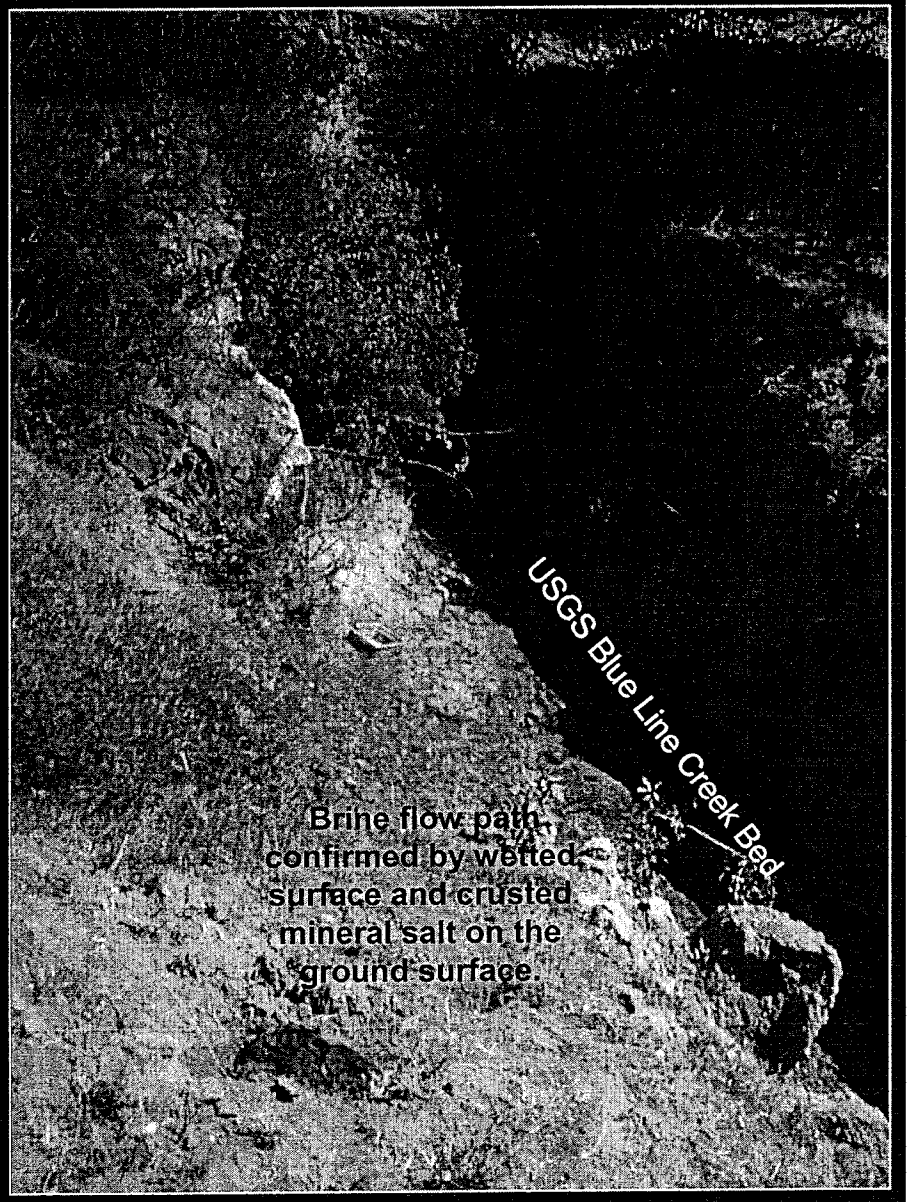


1D. Flow Towards Creek (a)

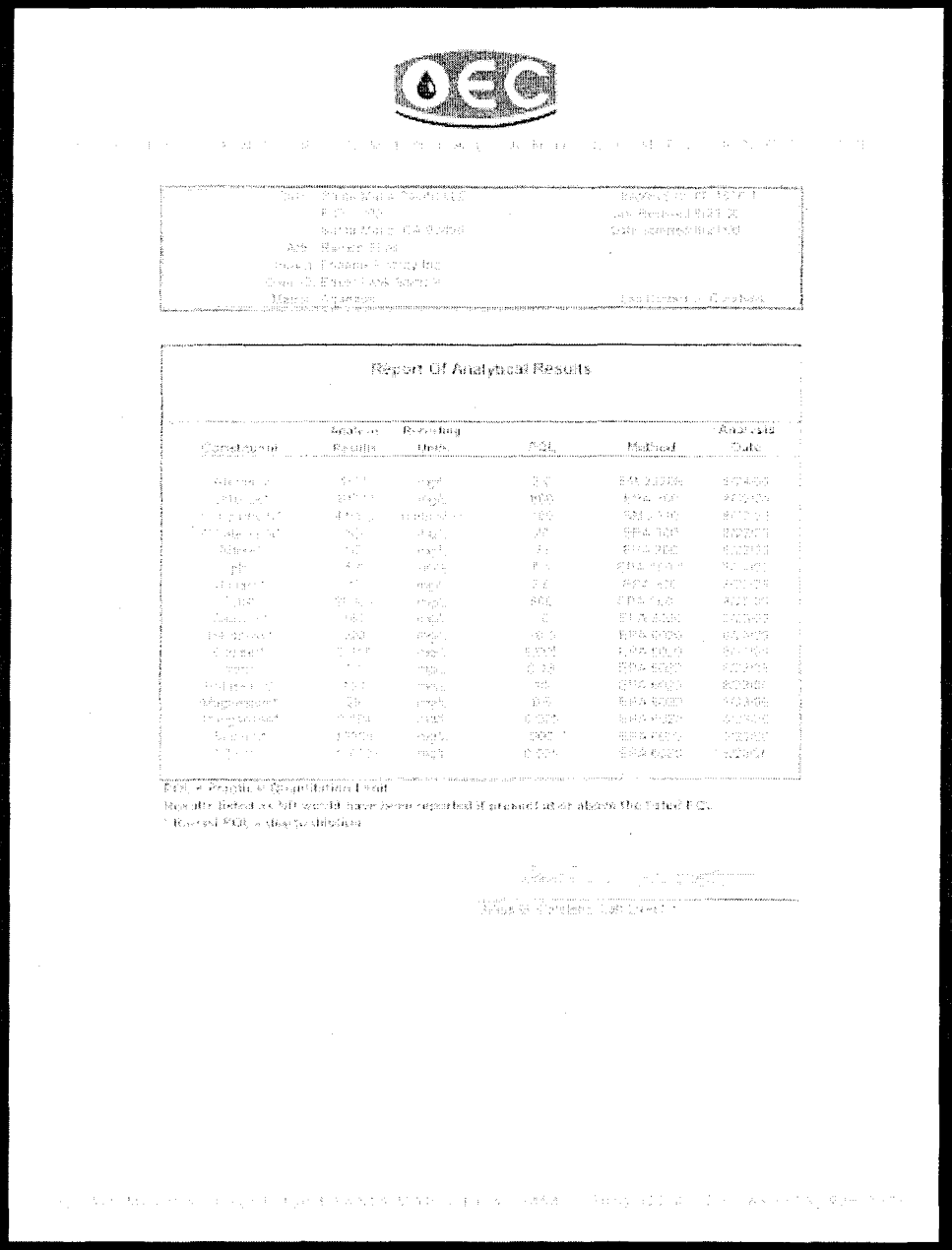


1D. Flow Towards Creek (b)





1F. Analysis of Produced Brine From Baker Tanks



Report Of Analytical Results

Constituent	Analytical Results	Reporting Units	PQL	Method	Analysis Date
Alkalinity, Total as CaCO3	64.1	mg/L	5.0	SM 2320B	8/24/2021
Chloride	84,000	mg/L	1000	4500-Cl- B	8/25/2021
Conductivity @ 25 C	141,000	uS/cm	10.0	SM 2510B	8/25/2021
Specific Gravity @ 60/60 F	1.092	g/mL	NA	SM 2710F	8/26/2021
Nitrate-N	<0.5	mg/L	0.5	EPA 300.0	8/25/2021
pH	4.97	pH Units	0.10	SM 4500-H+ B	8/25/2021
Sulfate	47	mg/L	2.5	EPA 300.0	8/25/2021
TDS	91,500	mg/L	500	EPA 160.1	8/27/2021
Turbidity	160	NTU	0.5	EPA 180.1	8/25/2021
Total Organic Carbon	200	mg/L	50.0	EPA 9060A	8/25/2021
Calcium	1,700	mg/L	0.200	EPA 6010B	8/27/2021
Iron	1.1	mg/L	0.10	EPA 6010B	8/27/2021
Potassium	530	mg/L	10	EPA 6010B	8/27/2021
Magnesium	330	mg/L	0.5	EPA 6010B	8/27/2021
Manganese	0.0750	mg/L	0.0050	EPA 6010B	8/27/2021
Sodium	17,000	mg/L	200	EPA 6010B	8/27/2021
Zinc	0.0170	mg/L	0.0050	EPA 6010B	8/27/2021

PQL = Practical Quantitation Limit

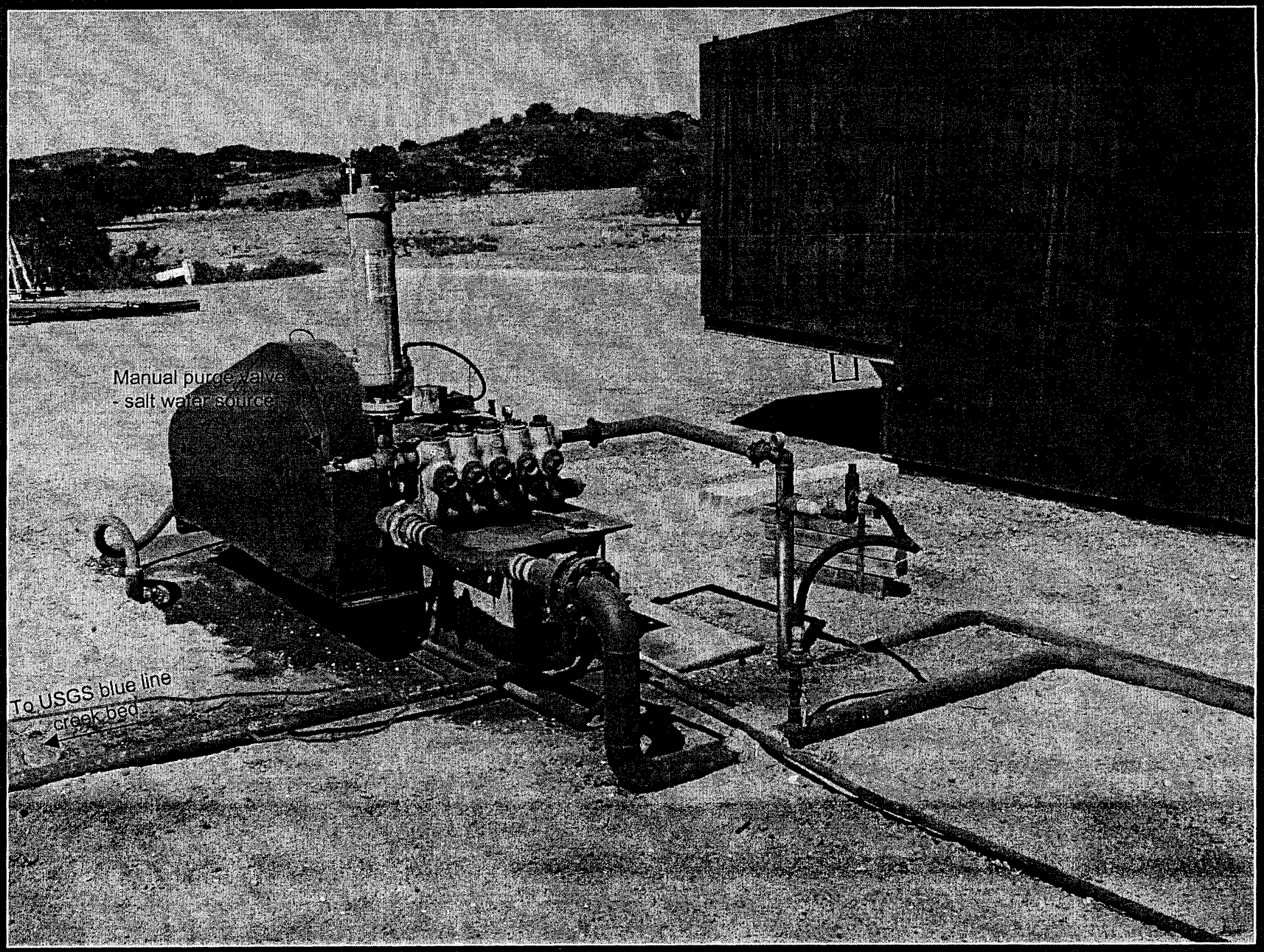
Results Reported on "As Received" basis unless reported otherwise or above the Tested PQL

* Revised PQL = dilution adjusted

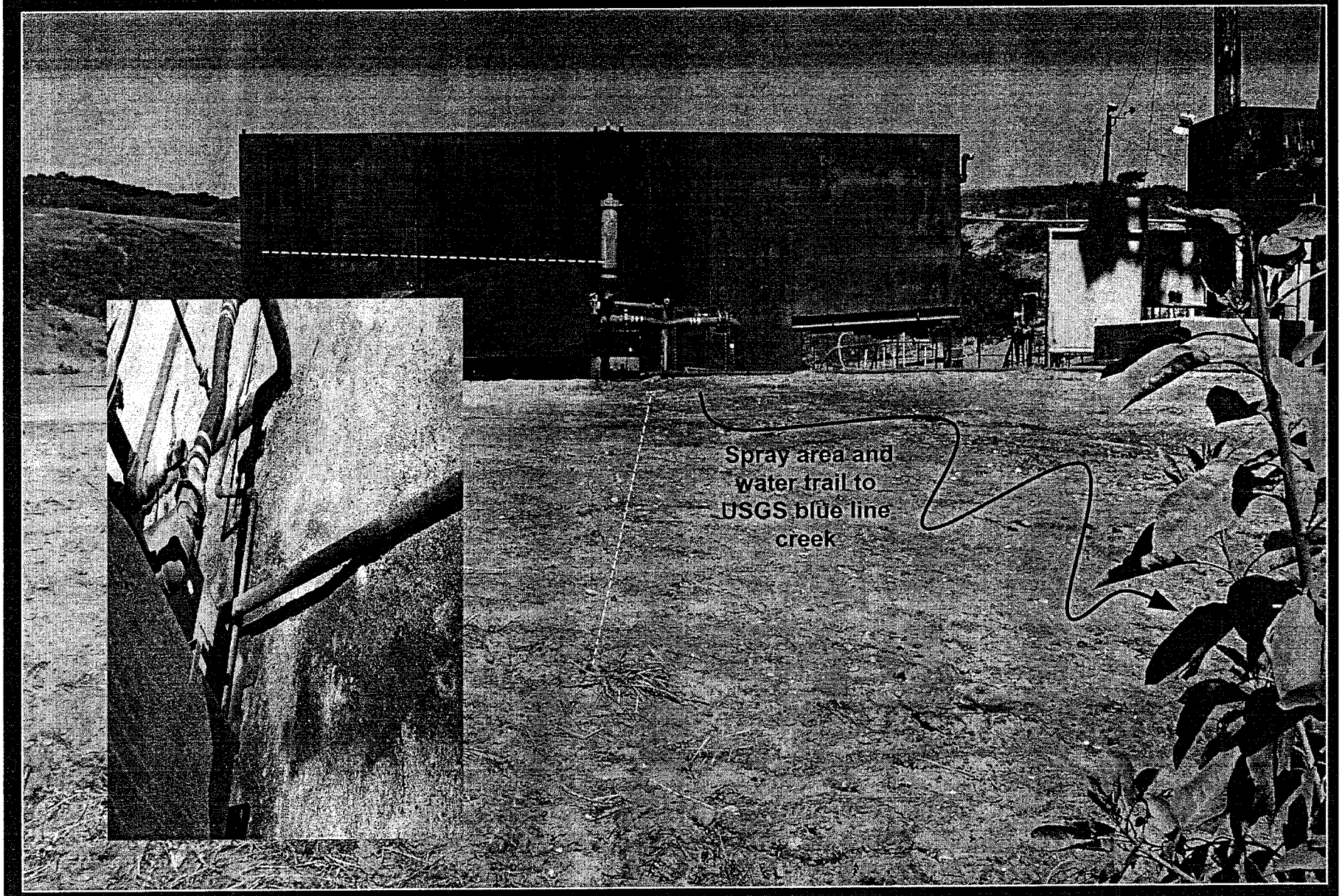
2 Brine Discharges from Waste Water Pump Purge Valve

- Indications of various discharges from purge valve prior to September, 2006 were observed.
- Course of practice of CHI during operation necessary for disposal of waste water from facilities.
- Staining reflected of long history of course of practice.
- The only pump suction pipe connection is to the PEI Tank Battery, Waste Water Tank.
- All PEI well produced brine water is piped to the Waste Water Tank.
- Photographs 2A, 2B, and 2C follow this summary page.

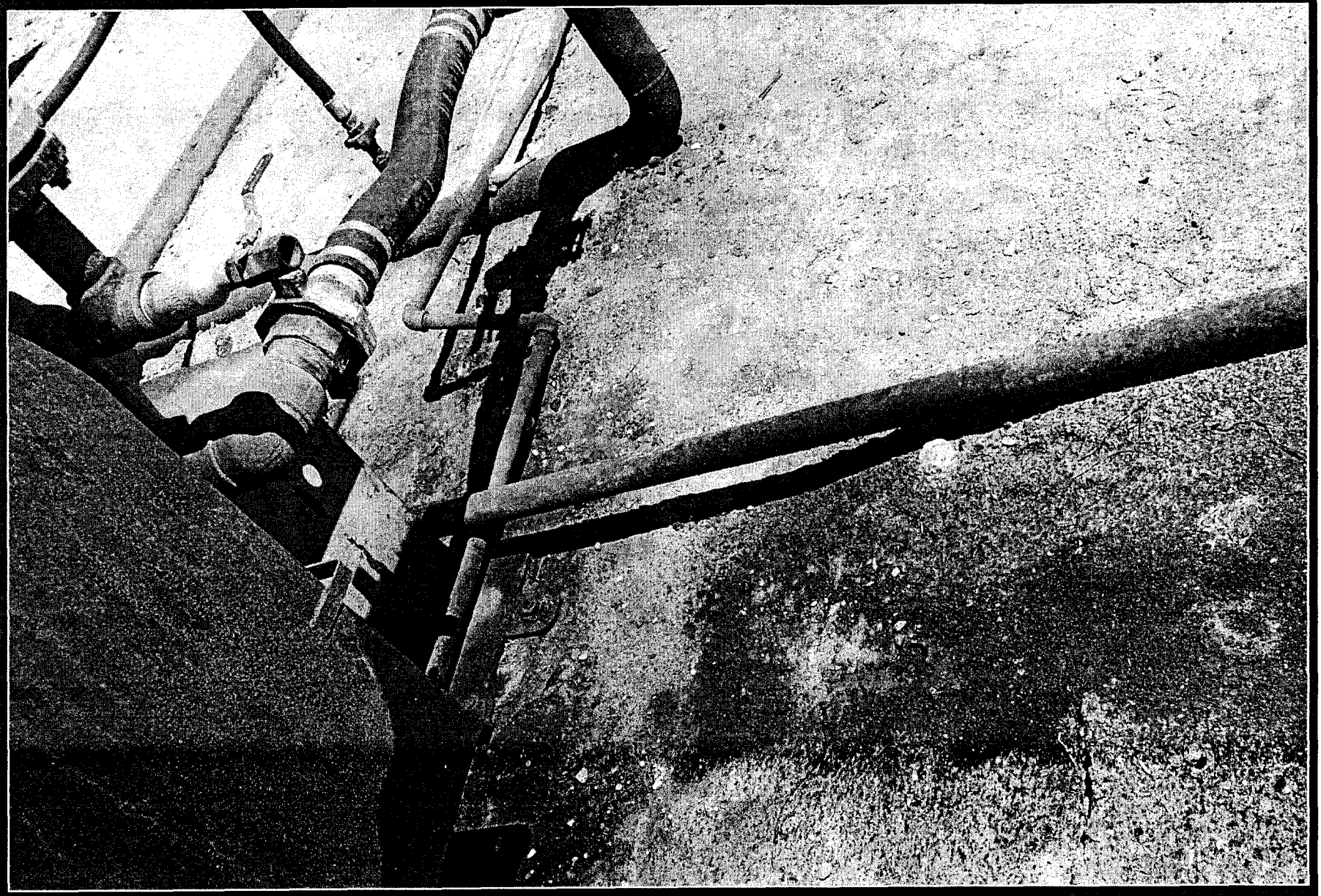
2A. Waste Water Pump Purge Valve



2B. Waste Water Pump And Water Trail To Creek



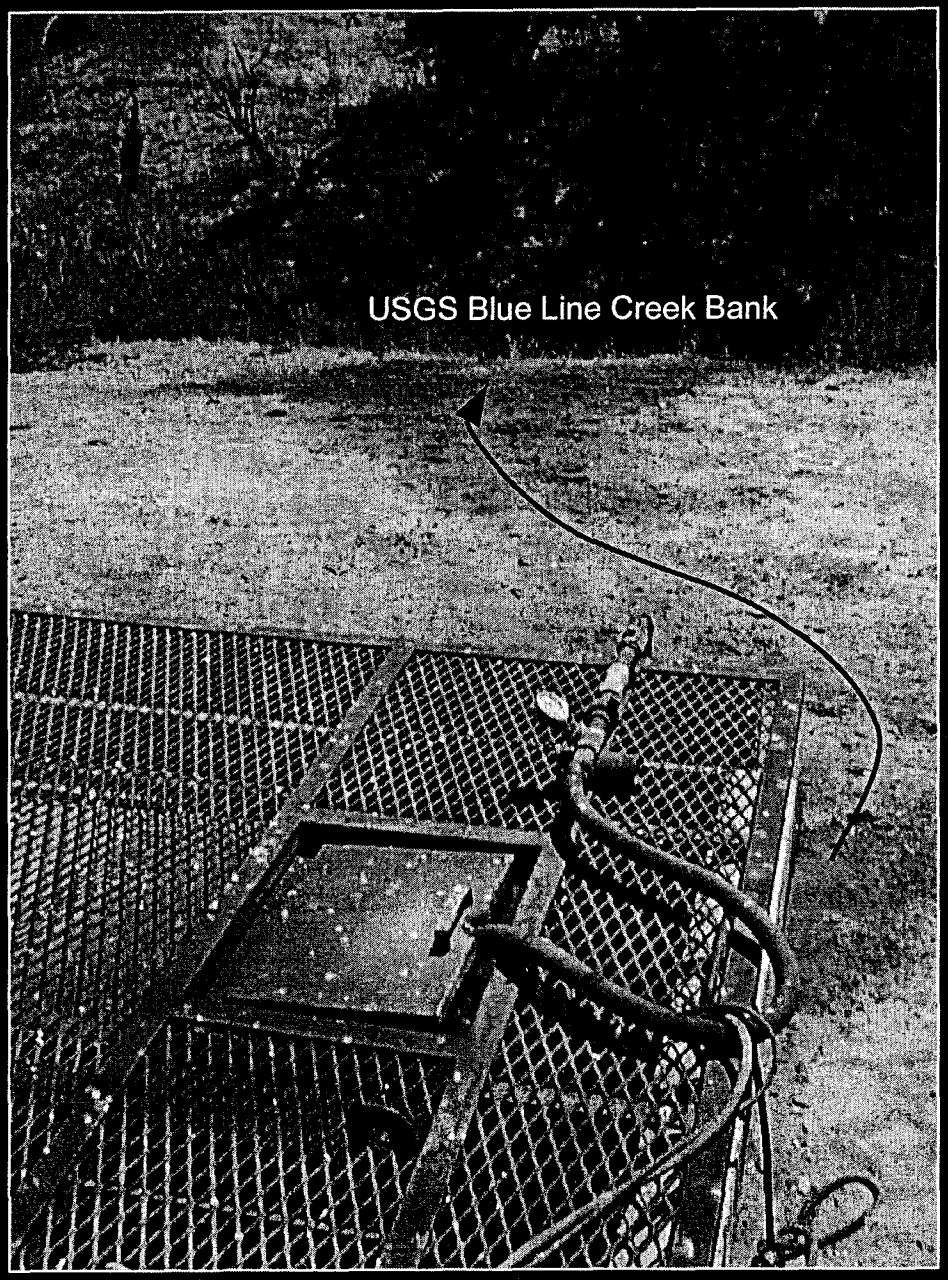
2C. Enlarged View Of 2A Insert Photograph



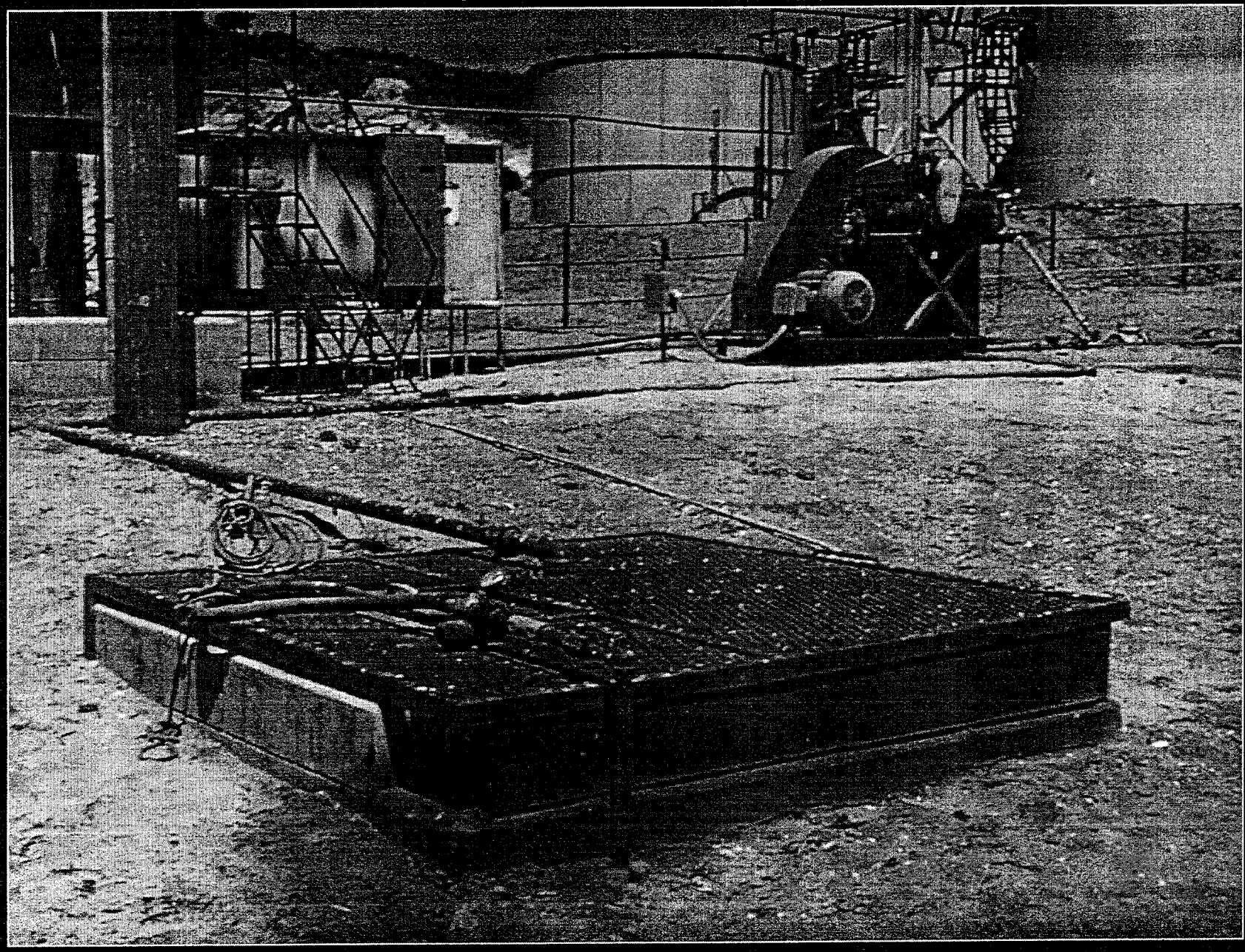
3 Oily Water Discharge from Sump

- Water and lubricants for pumps collect in sump.
- Fresh staining on exterior of pit and on the ground reflects that liquid has recently and periodically escaped from sump.
- Ground stain reflects travel toward creek.
- Date that discharges occur and number of discharges may be subject to debate.
- Sump is subject to overflowing during rains.
- Photographs,3A and 3B, follow this summary page.

3A. Oily Water From Lubricant Sump



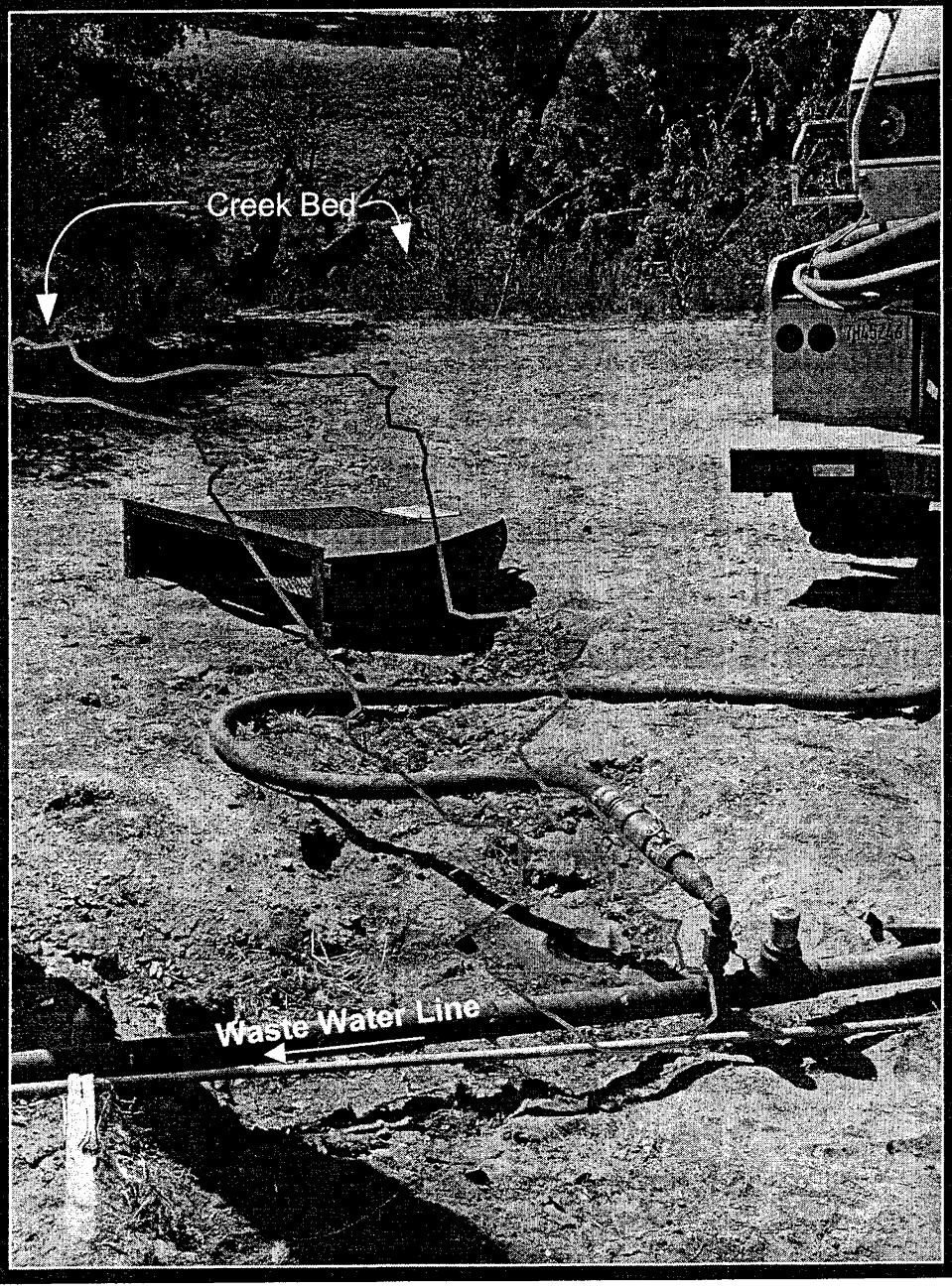
3A. Oily Water From Lubricant Sump



4 Brine Discharge from Drain on Waste Water Line

- Stain reflected that source of material was waste water line
- Drain opened to clean out debris from 1.8 mile waste water flow line running to PEI waste water injection wells
- Location of stain and topography indicates creek impacted
- Waste water line has had regular plugging problems indicated by a higher than normal discharge pressure at the waste water pump.
- Waste water flow line recently replaced resulting in a reduced line pressure loss.
- Course of practice for CHI
- Photograph 4A follows this summary page.

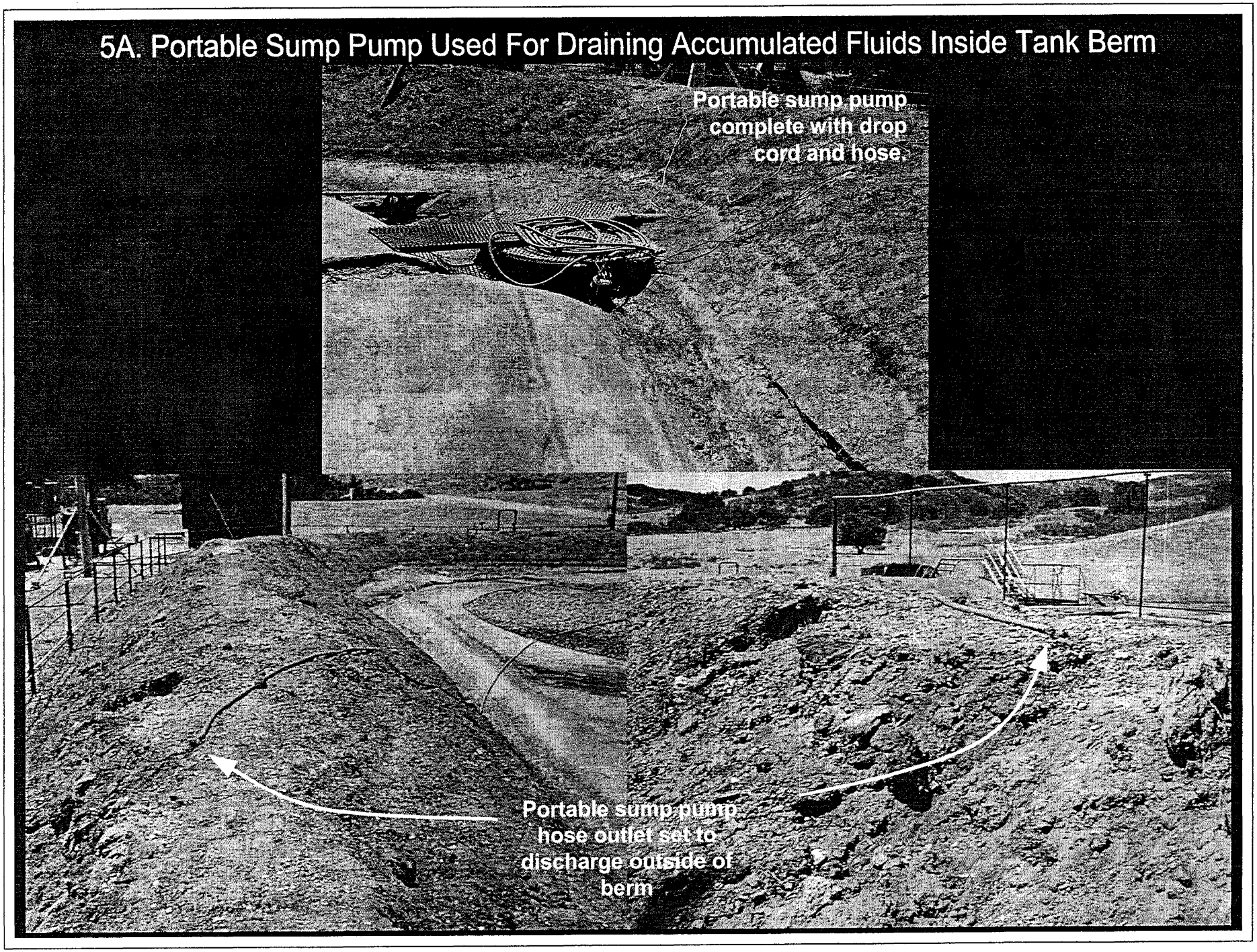
4A. Salt Water Discharge During Line Cleanout On 9/22



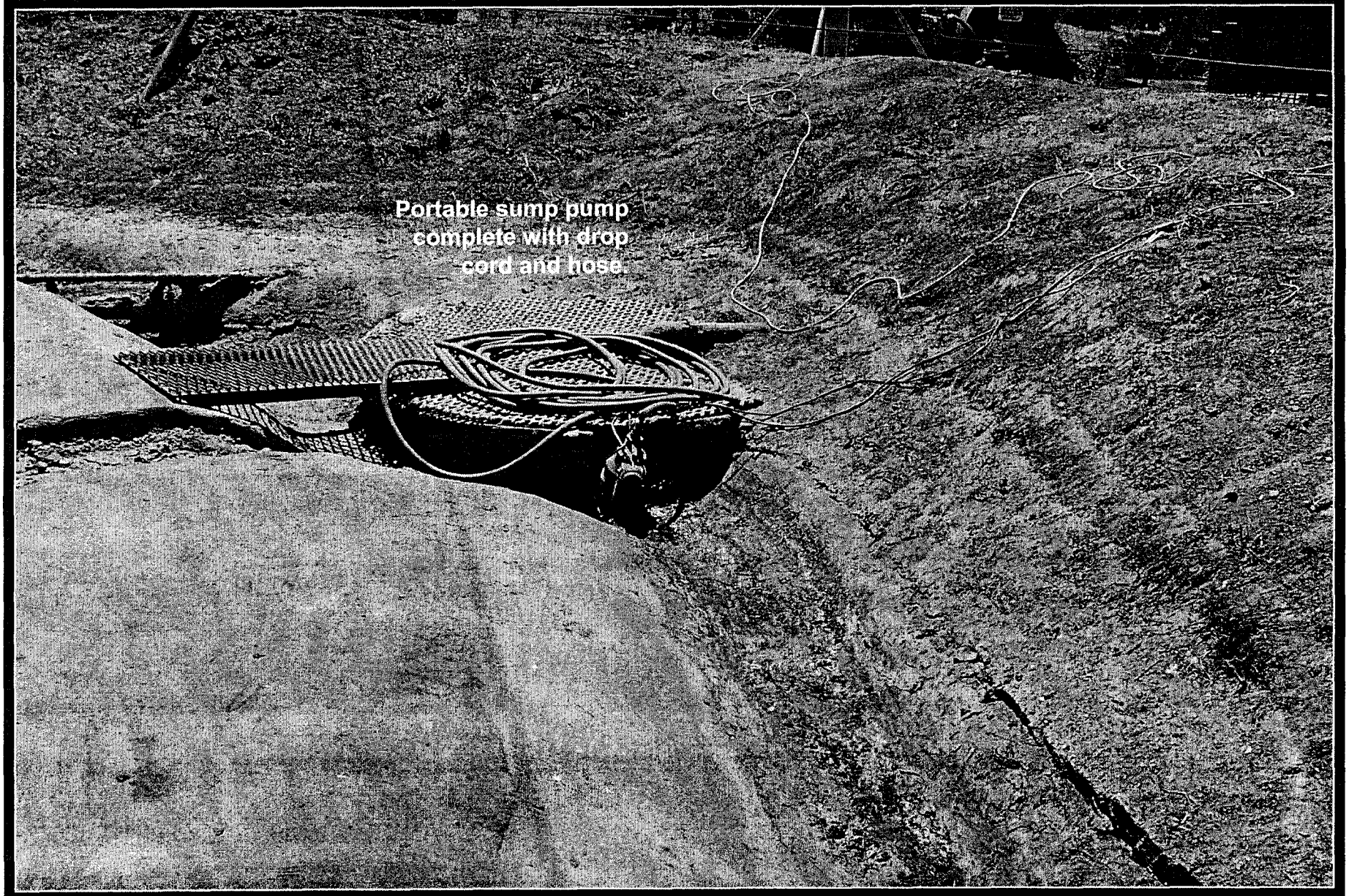
5 Oily Water Discharge From Sump Inside Berm Area

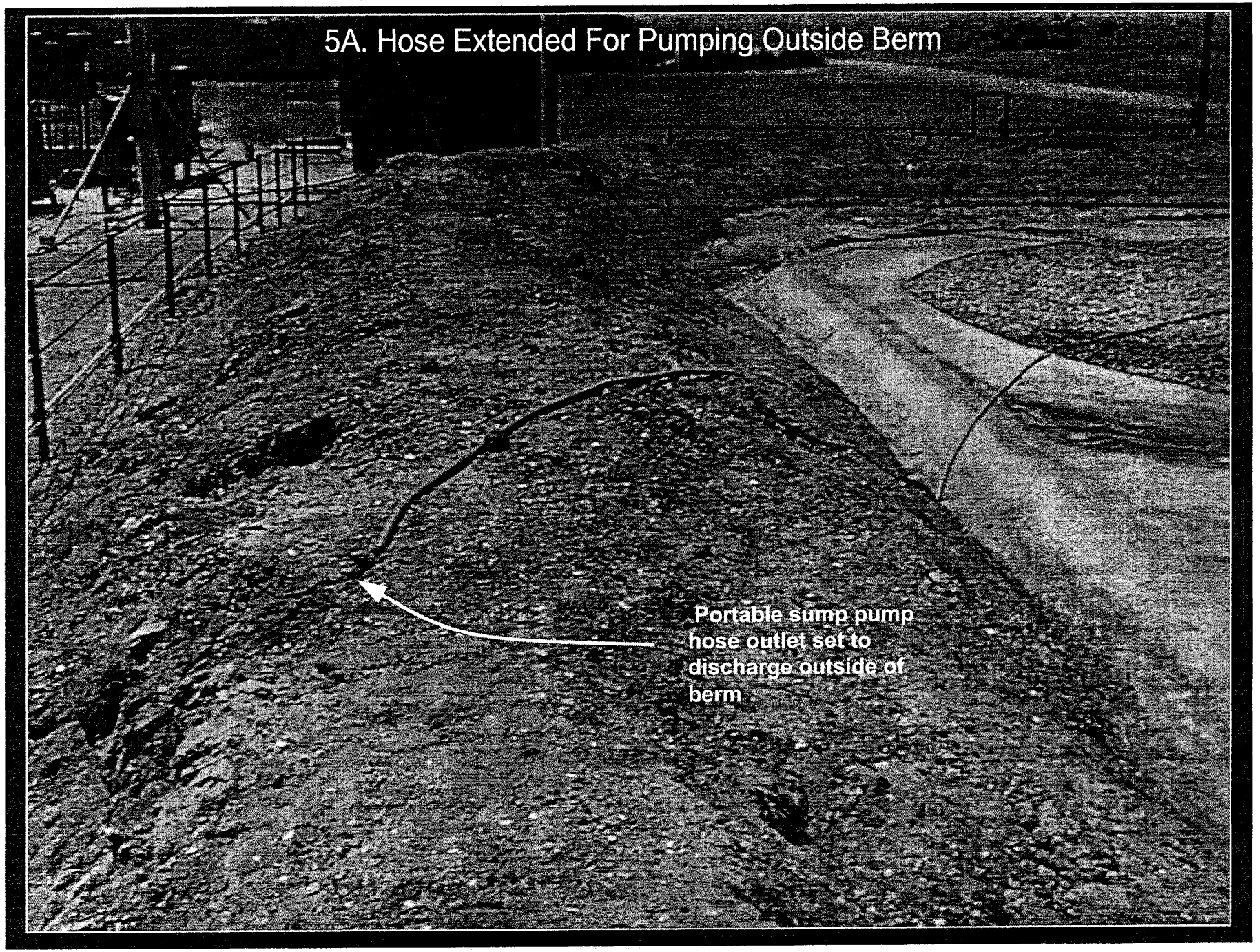
- Intentional conduct by CHI to pump oily water from inside berm area to an "uncontrolled area" that would naturally flow toward creek
- CHI elected to install this "handy" system rather than connect it properly to waste water tanks
- Phoenix uncertain how long the pump and hose were in place, but staining evident
- Creek possibly impacted based on staining evident
- Photographs 5A, 5B, 5C, 5D and 5E follow this summary.

5A. Portable Sump Pump Used For Draining Accumulated Fluids Inside Tank Berm



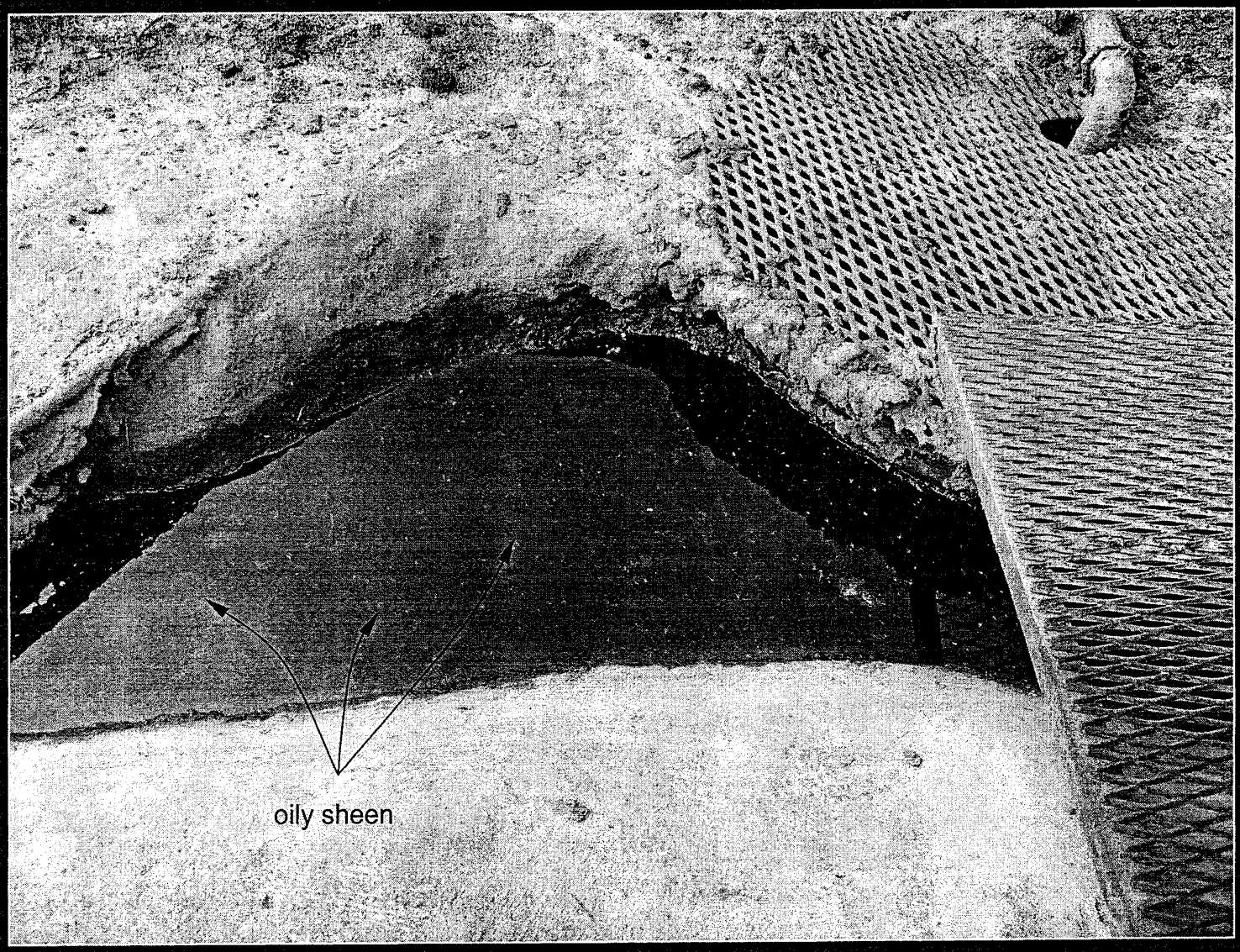
5A. Portable Sump Pump




5A. Hose Extended For Pumping Outside Berm
Portable sump pump hose outlet set to discharge outside of berm


5A. Extended Hose Discharge And Water Trail Running Outside Berm
To USGS blue line
creek bed

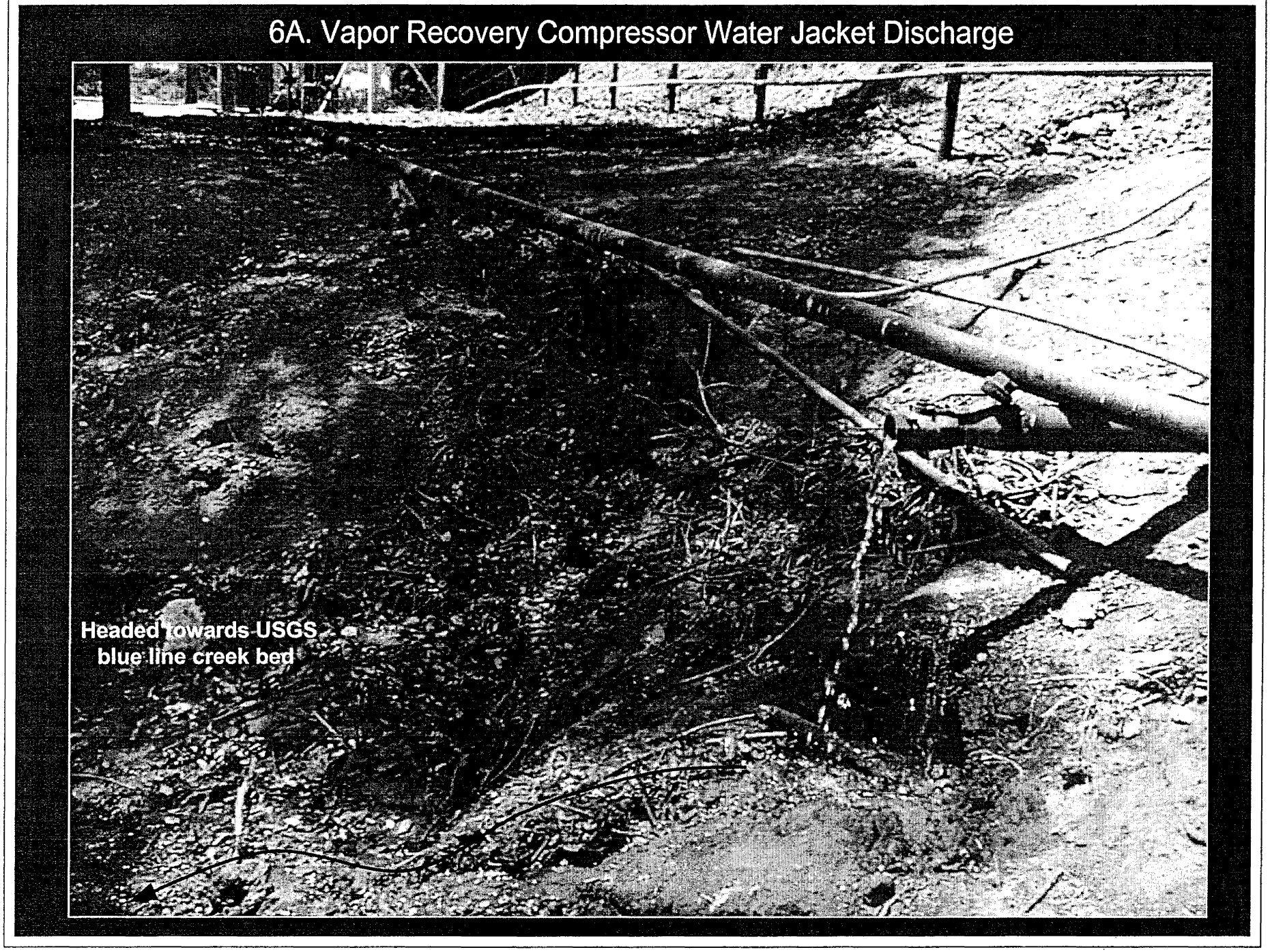
5A. Sump Water With Oil Sheen



6 Fresh Water Discharge from Vapor Recovery Pump

- CHI uses vapor recovery compressor that requires a water jacket to keep the mechanical system cool and avoid premature failure.
- The necessary fresh water supply to the PEI Production Tank Battery was installed sometime in July 2006.
- The feed line from the fresh water line to the water jacket was completed sometime in August 2006.
- The compressor was then put into continuous service.
- The water jacket outlet water stream was piped to a location outside the PEI Tank Battery containment berm and allowed to flow into the nearby USGS blue line creek.
- No permit was issued for the discharge.
- PEI demanded CHI correct the matter and was subsequently corrected sometime in October 2006 by plumbing the water into the Waste Water Tank.
- CHI operated the vapor recovery compressor only during lease inspections up until the time fresh water was plumbed to the PEI Production Tank Battery and finally hooked up the vapor recovery compressor.
- Photographs 6A follow this summary.

6A. Vapor Recovery Compressor Water Jacket Discharge

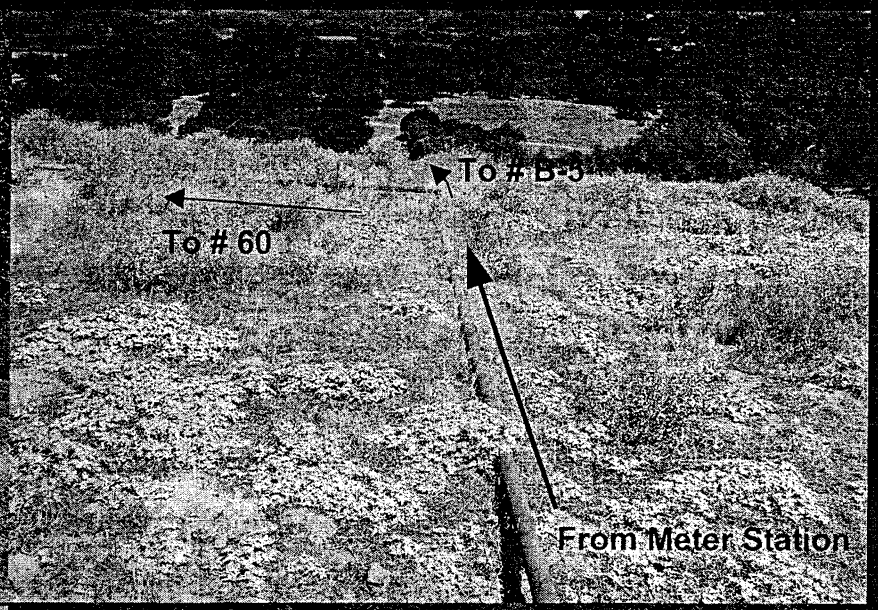


7 Illegal Waste Water Injection Well, Careaga 60

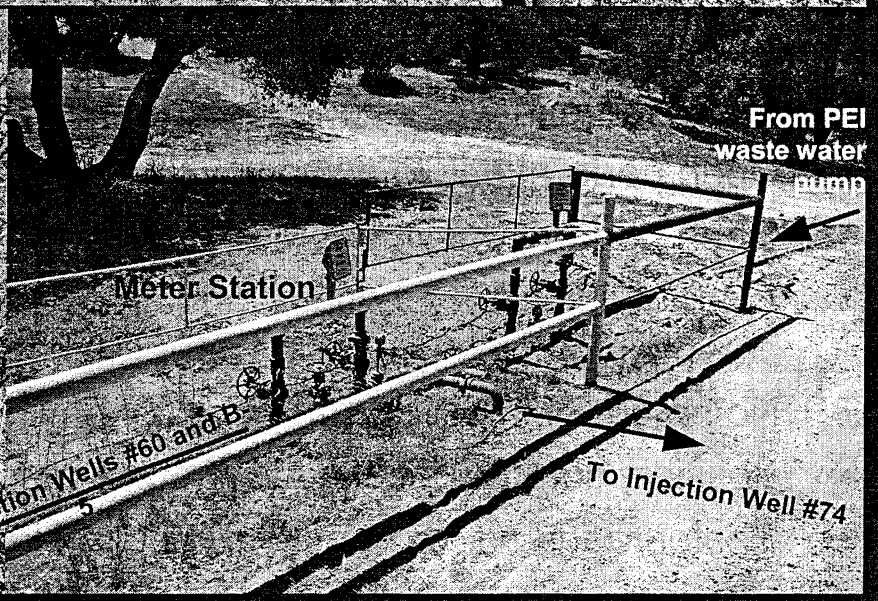
- Listed by California DOGGR as an inactive well.
- Well placed on injection on or about July 2003.
- Cumulative injected brine estimated to be 1,543,000 barrels (64,804,000 gallons), and arguably much more.
- Brine waste water activity never permitted.
- Not equipped with tubing and packer.
- 8-inch liner from 2,332 feet to 3,659 not cemented.
- 10-inch production casing from surface to 2,412 feet not cemented.
- 12-inch surface casing cemented to 409 feet.
- Possible fresh water zones to about 500 feet.
- Open perforations in a shallow interval from 1,830 to 1,980
- Open perforations in the Monterey from 3,000' to 3,650 feet.
- Average injection pressure ranging between 500 and 800 psi exacerbating the potential for injected waste water to go to zones other than Monterey objective.
- No record of injection surveys ever having been run.
- Possible communication with fresh water through entire injection period.
- Photographs and schematics 7A and 7B follow this summary.

7B. Piping Facilities To Well #60



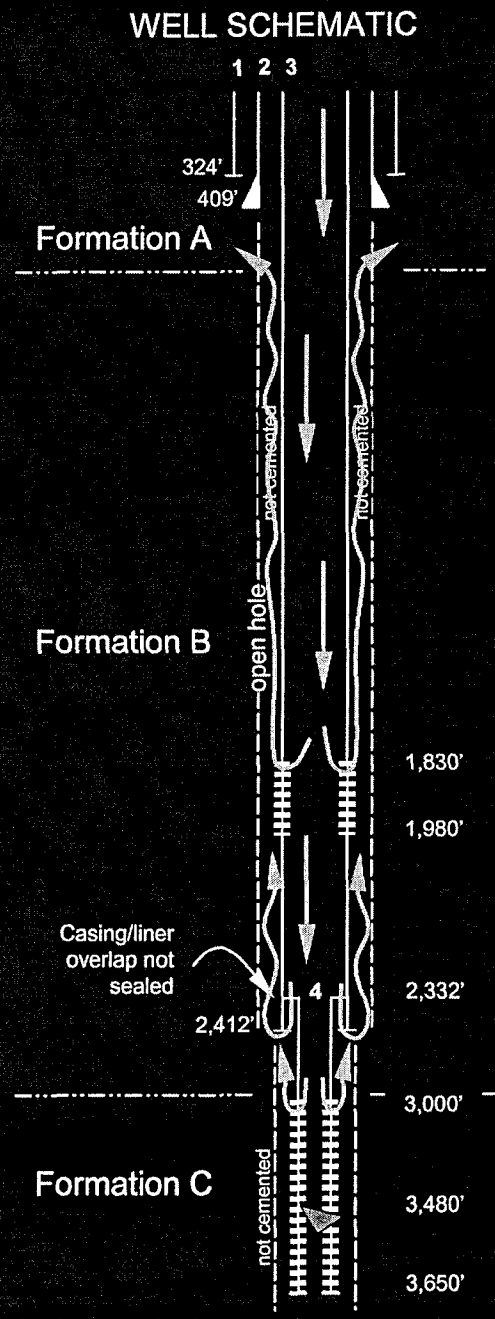






7B. Careaga 60 Wellbore Schematic

During Waste Water Injection From July 2003 to September 2006



FORMATION SUMMARY

A Base of fresh perched water sands at 400 to 500 feet

B Shallow hydrocarbon filled siliceous formations from base of fresh water to 3,000 feet.

C Hydrocarbon filled Monterey Formation below 3,000 feet

Injected waste water could migrate behind pipe by any path or combination of paths shown in salmon color.

WELL SUMMARY

1 18-inch Conductor (not cemented)
- Landed at 324 feet

2 12-1/2 inch Surface Pipe (cemented)
- Cemented at 409 feet

3 10-inch Production Casing (not cemented)
- Set inside 12-1/4 inch open hole
- Landed at 2,412 feet
- Machine perforated from 1,830 to 1,980 feet

4 8-inch Liner (not cemented)
- Set in 9-1/2 inch open hole
- Landed at 3,659 feet
- Perforated from 3,000 to 3,650 feet
- Top of fish (obstruction) at 3,480 feet

ANDRE, MORRIS & BUTTERY

A Professional Law Corporation

1102 Laurel Lane
P. O. Box 730
San Luis Obispo, CA 93406
Telephone: (805) 543-4171
Facsimile: (805) 543-0752

2739 Santa Maria Way
P.O. Box 1430
Santa Maria, CA 93456
Telephone: (805) 937-1400
Facsimile: (805) 937-1444

FACSIMILE TRANSMISSION

Please Reply to San Luis Obispo Office

DATE: DECEMBER 14, 2006 TIME: 10:46 AM
NUMBER OF PAGES (INCLUDING COVER PAGE):

TO: Name	Fax Number	Phone Number
Ms. Sue Gerdsen Central Coast Regional Water Quality Control Board	805-788-3521	549-3147

FROM: Collette Hillier

RE: Moretti B-2 Santa Maria Valley Oil Field, Underground Injection Control Program Waste Water Injection, Greka Oil & Gas, Inc.

MESSAGE: Please see the attached letter of this date.

STATE OF CALIFORNIA
CENTRAL COAST WATER BOARD
Received
DEC 14 2006
895 Aerovista Place, Ste. 101
San Luis Obispo, CA 93401-7906

X The original(s) being faxed will not be mailed. ___ The original(s) being faxed will be mailed.

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If you experience difficulty with this transmission, please contact Collette Hillier at 805-543-4171.

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1102 Laurel Lane
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Facsimile 805.543.0752

2739 Santa Maria Way, Third floor
Post Office Box 1450
Santa Maria, CA 93456-1450

www.amblaw.com

December 14, 2006

Via Facsimile

Ms. Sue Gerdsen
Attention: File Review Request
and Mr. Rich Chandler
Central Coast Regional Water Quality Control Board
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

Re: Moretti B-2 Santa Maria Valley Oil Field, Underground Injection Control Program Waste Water Injection, Greka Oil & Gas, Inc.

Dear Ms. Gerdsen and Mr. Chandler:

This letter confirms our conversations of this date, wherein I made a request to review any documents regarding the above-referenced well injection project in the Santa Maria Valley Oil Field. You indicated that the Central Coast Regional Water Quality Control Board (the "Water Board") is not the lead agency regarding this matter and that unless there is a breach in the integrity of the well, the Water Board will not supervise the project. Thus, the Water Board would not hold any documents relating to the project.

Upon further review of your files you have confirmed that the Water Board does not, in fact, have any documents related to the referenced well and/or project.

If this letter does not accurately reflect the information that you provided in our conversations, please contact me immediately.

Very truly yours,

Collette A. Hillier, Paralegal

CH/ch

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STATE OF CALIFORNIA
CENTRAL COAST WATER BOARD
Received
DEC 14 2006
895 Aerovista Place, Ste. 101
San Luis Obispo, CA 93401-7906

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P 306-355
Field Code 524
Area Code 06
New Pool Code 15
Old Pool Code 00

PERMIT TO CONDUCT WELL OPERATIONS

WATER DISPOSAL PROJECT
MAIN AREA
MONTEREY ZONE

Bruce Falkenhagen, Agent
Phoenix Energy, Inc.
2275 Corbett Canyon Road
San Luis Obispo, CA 93401

Santa Maria, California
October 23, 2006

Your _____ proposal to convert to water disposal well "Careaga" 60, A.P.I. No. 083-02094, Section 32, T. 9N, R. 33W, S.B. B&M, Orcutt field, Main area, Monterey pool, Santa Barbara County, dated 9-20-06, received 9-20-06, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
2. Blowout prevention equipment conforming to Class 2M requirements is installed and maintained in operating condition at all times.
3. This well conforms to the provisions set forth in our letter of February 21, 1984, approving activation of the project.
4. Copies of all surveys are filed with this Division.
5. Injection is through tubing on packer set immediately above the zone of injection.
6. A step-rate pressure test is conducted prior to sustained injection above 420 psi plus friction flow losses.
7. Fluid level shots are taken inside the tubing of this injection well initially and once every quarter thereafter, in order to evaluate reservoir conditions because of the improperly cemented wells in the radius of review around the injection well. A fluid level should be shot 5 minutes after shutting in the well, and a second fluid level should be taken at least 2 hours after initial shut in of the injection.
8. THIS DIVISION IS NOTIFIED:
   a. To witness a pressure test of the 10" x 8 1/4" casing. ~ 2 perfs above pkr ok to use FL's in lieu of
   b. To witness, prior to injecting, the well's fluid level in the tubing and casing and the fluid levels in wells "Careaga" 57, 61, 62, 63, 64 & 91, then within 3 months after injection has commenced, and then quarterly thereafter.
   c. To witness all injection profile surveys referred to in item 5 of the above-referenced letter, the first within three months after injection has commenced and annually thereafter.

NOTES:

1. This Division does not recommend the use of unlined sumps for the purpose of drilling, recompletion, or abandonment operations.
2. Information on file in this office indicates that the base of the usable freshwater deposits should be encountered at a depth of approximately 270± from the driller's log.

Engineer Pat Abel 11/2/06 Falkenhagen/Abel
Phone (805) 937-7246 must shoot FL's on inj well. 11/6/06 Dueck/Abel ok to place pkr @ 2400'.

HAL BOPP, State Oil and Gas Supervisor
By William E. Brannon
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.
Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111 (2/95/GSR1/5M)

Converting Idle well to Injection well Program
Modified program
Careaga #60 well
November 27, 2006

Note: This well's permanent records were lost in a fire at the lease in 1999. The casing record and perforation records were obtained from the files maintained by the DOGGR's offices and hand written notes by a consultant that had reviewed the files before the fire. The well was drilled in 1916 and the casing is the original casing as best can be determined.

The well has been cleaned out to the fish at 3497' and a scraper has been run in the hole. This change is to reflect a concern about the upper perforations that are open and the possibility that cement was not used when the well was drilled.

1) Rig up Greyson rig. Install Class 2M BOPE.

2) Run in hole with retreiveable bridge plug on tubing. Set plug at 2800'. Place 20' (~7 cubic feet) of sand on top of plug. Pull off and wait 45 minutes. Tag top of sand. POOH.

3) RU wireline perforators. RIH and perforate 8" casing at 2750' with 4 holes/foot over 1 foot interval.

4) RIH with cement retainer on tubing and set at 2725'. Open 10" casing valve. Establish circulation with water through tubing. (annular volume at 8" is 0.0423 ft^3/ft; 8" casing volume is 0.3505 ft^3/ft; tubing volume is 0.03250 ft^3/ft)

   a) If water appears at surface at either the 10" casing or from the 12-1/2" casing, then the cement squeezed will generally go up from the 2750' perforations. Lay in a cement plug that places 15 ft^3 cement behind the 8" casing and gently squeeze cement into formation.

   b) If water does not appear at surface, then the cement squeezed will go down from the 2750' perforations into the injection interval and care must be taken to not have cement reach the 3000' depth. Lay in a cement plug that places 10 ft^3 of cement behind the 8" casing. Do not squeeze the cement into the formation.

   Unseat cement retainer and slowly pull up 200'; reverse circulate clean. POOH, being careful not to swab the hole.

5) WOC 6 hours.

6) RIH with 7-5/8" bit. Drill out cement and circulate sand off bridge plug. POOH.

7) RIH and retrieve bridge plug. POOH.

8) RIH with 8" scraper to fish at 3497'. POOH.

9) RU wireline, RIH with cement bond log, log interval from 3000' to 2330' to locate and verify cement behind 8" casing. RD wireline.

10) RIH with 2-7/8" tubing with 8" packer on bottom. Set packer at 2900'.

11) Pressure test back side of casing. DOGGR to witness.

12) RDMO.

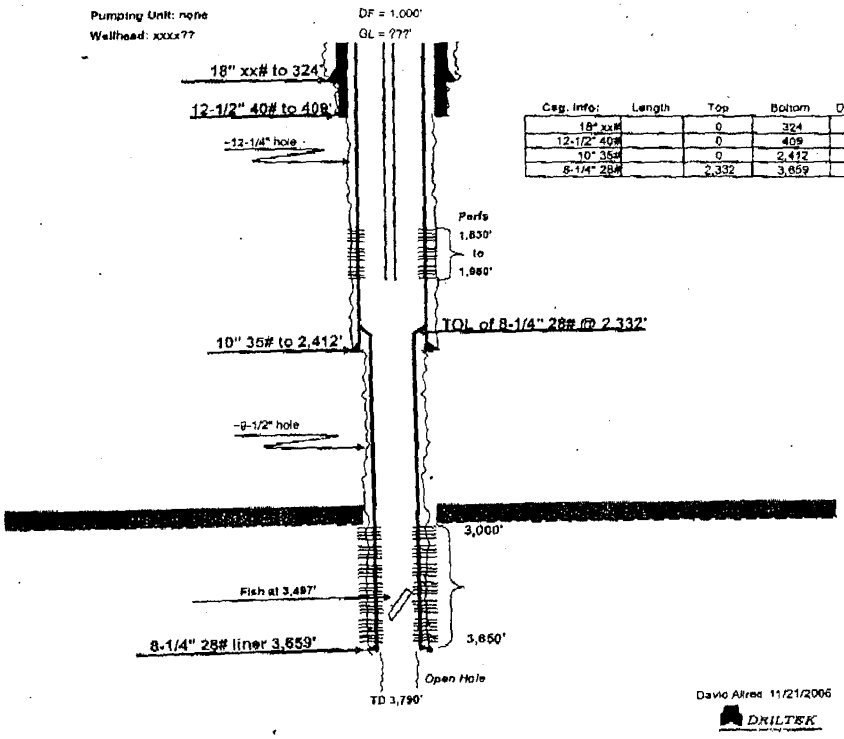
13) Perform step rate injectivity test. Inject at rate of 100 BWPD, 200 BWPD, 400 BWPD, 600 BWPD.

rates not evenly spaced

Existing Condition

Phoenix Energy, Inc.
Wellbore Diagram

Well Name: Careaga #80 — API#: 083 02094
Location: — Field: Orcutt
State: Ca. — County: Santa Barbara
Well drilled:1916-17 — Type: Injection Well — PBTD: 3,480'?



Csg. Info:	Length	Top	Bottom	Drift ID
18" xx#		0	324	
12-1/2" 40#		0	409	
10" 35#		0	2,412	
8-1/4" 28#		2,332	3,659	

ASP = 765 psi

RECEIVED

NOV 2 8 2006

DIV OIL GAS & GEOTHERMAL
SANTA MARIA, CALIFORNIA

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY		
	Forms	
Bond	OGD114	OGD121
	11-06 pd	11-06 pd

A notice to the Division of Oil, Gas, and Geothermal Resources, *dated* 9/20/06, stating the intention to

convert to disposal well Careaga #60, API No. 083-02094.
(Drill, rework, abandon) *(Well designation)*

Sec. 32, T. 9N, R. 33W, S.B. B.&M., Orcutt Field,

Santa Barbara County, should be amended because of changed conditions.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:
18" 10# stove pipe landed at 324'; 12-1/2" 40# 10 thread cemented at 409'
10" 35# 10 thread landed at 2412'; 8-1/4" 28# 10 thread liner from 2332' to 3650'
Machine perf of 10" casing at 1830'-1980'; 2 rows, 10' in each joint (4/1923); slots at 3000'-3659'

2-7/8" tubing fish in hole at 3497'

2. The total depth is: 3790' feet. The effective depth is: 3556' feet.

3. Present completion zone (s): Monterey *(Name)*. Anticipated completion zone (s): Monterey *(Name)*.

4. Present zone pressure: 500 psi. Anticipated/existing new zone pressure: 500 psi.

We now propose: *(A complete program is preferred and may be attached.)*

Convert the well to a water injection well per the attached program. Plan has been modified from the 9/20/06 submittal to squeeze cement at the top of the Monterey interval.

Note that we are trying to set a cement plug between 2985' and 2332'. There are perforations below at 3000'. We believe that with the perforations at 2750', the cement can go up or down in the annular space. Preferentially, we think that it will go down. If it goes down, we do not want the cement to get below the 3000' depth if possible, hence the specification for only 10ft^3 to go out the perforation. This assumes that the annular space is open and not filled with 90 years of collapsed debris.

BF
748-2045

Note: If the well is to be redrilled, show proposed bottom-hole coordinates a
The Division must be notified if changes to this plan become necessa

Name of Operator	Telephone	
Phoenix Energy, Inc.	(805) 544-2153	
Address	City	Zip Code
2275 Corbett Canyon Road	San Luis Obispo	93401
Name of Person Filing Notice	Signature	Date
Bruce Falkenhagen		11/27/06

OG123 (8/97) **File In Duplicate**

Abel, Pat

From: Ramon Elias [relias@smpacific.net]
Sent: Thursday, November 30, 2006 4:05 PM
To: Abel, Pat
Subject: Properly Converting Careaga Well #60 To A Waste Water Injection Well

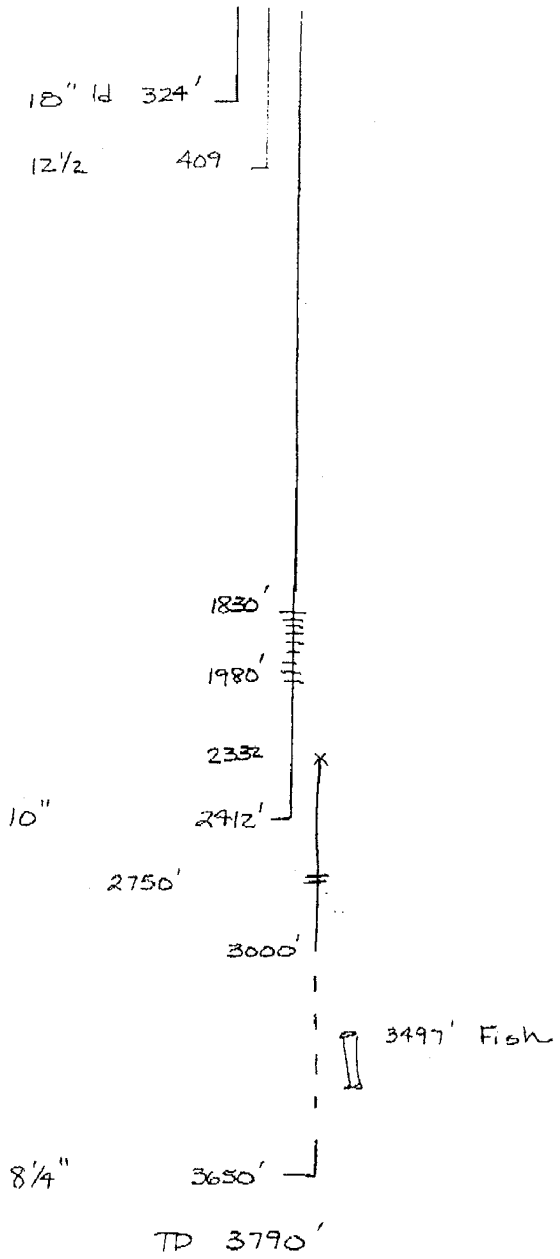
Ms. Pat Abel
CDOGGR
District 3

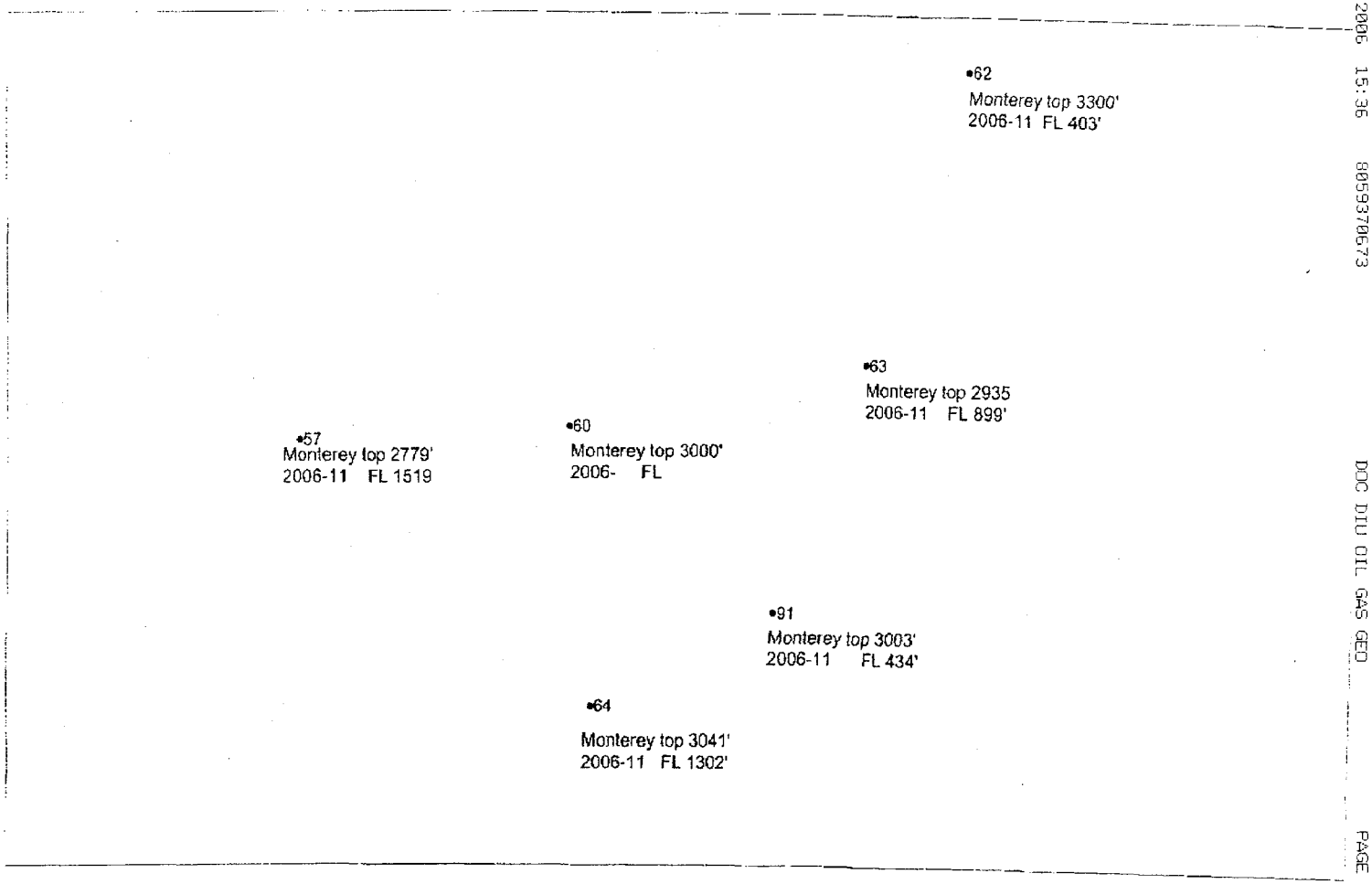
Thank you for your call regarding Careaga Well #60. Your fax was received. We concur with the proposed procedure and will not file a complaint provided the work is carried out as described.

Sincerely,
Ramon Elias,
SMP

Email: relias@smpacific.com

11/30/2006


18" ld 324'
12 1/2 409
1830'
1980'
2332
10"
2412'
2750'
3000'
3497' Fish
8 1/4"
3650'
TD 3790'



Prior to recommencing injection

12/06/2006 15:36 8059370673 DOC DIU OIL GAS GEO PAGE 02

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P 306-418
Field Code
Area Code
New Pool Code
Old Pool Code

PERMIT TO CONDUCT WELL OPERATIONS

WATER DISPOSAL PROJECT
MAIN AREA
MONTEREY ZONE

Bruce Falkenhagen, Agent
Phoenix Energy, Inc.
2275 Corbett Canyon Rd.
San Luis Obispo, CA 93401

Santa Maria, California
December 1, 2006

Your supplementary proposal to convert to water disposal well "Carreaga" 60, A.P.I. No. 083-02094, Section 32, T. 9N, R. 33W, S.B.B&M, Orcutt field, _____ area, _____ pool, Santa Barbara County, dated 11-27-06, received 11-28-06, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
2. Blowout prevention equipment conforming to Class II 2M requirements is installed and maintained in operating condition at all times.
3. The 8 1/4" casing is cemented with sufficient cement to fill from the proposed perforations at 2750' to 500' above the injection zone.
4. THIS DIVISION IS NOTIFIED:
   a. Before deviating from the proposed program and/or placing any plugs in the well. Additional requirements will be outlined at that time.
   b. To witness the squeeze-cementing of the 8 1/4" casing through the perforations at 2750'.
   c. To witness the running of the cement bond log.
   d. To witness the pressure test of the backside.
   e. To witness the running of a step-rate pressure test.

Notes:
1. In all other respects the well must be converted in accordance with the provisions set forth in our Report no. P306-355, dated October 23, 2006.
2. Material used to cement casing must meet or exceed standards for compressive strength of 1,000 psi and a maximum liquid permeability of 0.1 md as set forth in our Notice to Operators dated January 8, 1990.
3. The duration of each rate step in low-permeable formations should last one hour, while the incremental volume of each rate step should be consistent. Given the mechanical conditions in the area, results from the step rate test may not change set injection pressure limits.

PA:avd

Engineer Pat Abel
Phone (805) 937-7246

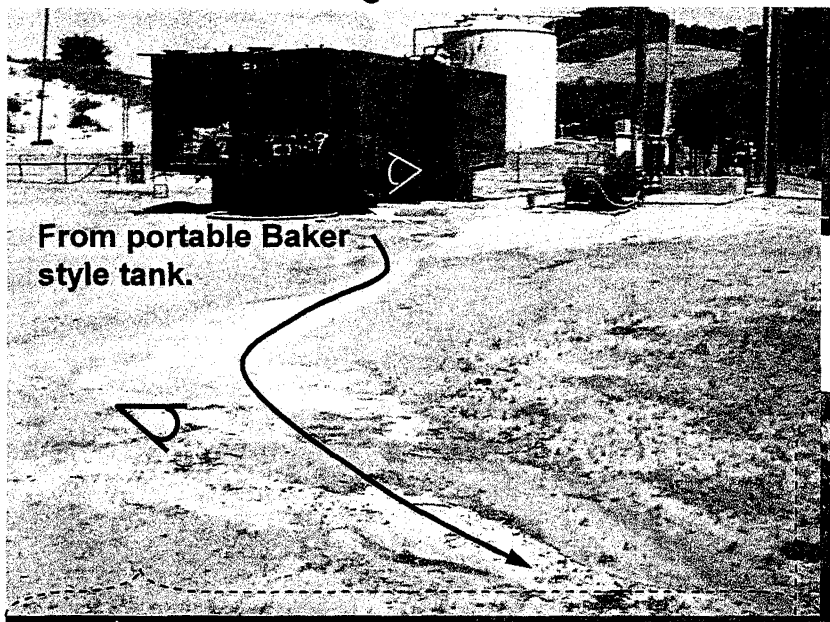
HAL BOPP, State Oil and Gas Supervisor
By William E. Brammer
Deputy Supervisor

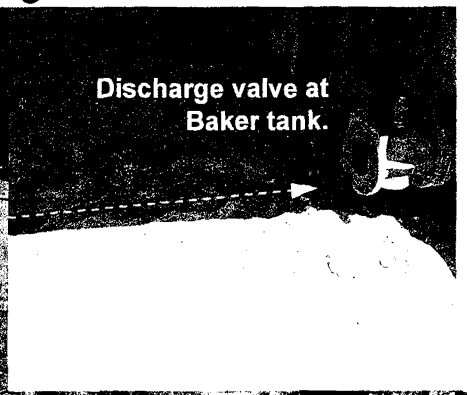
A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

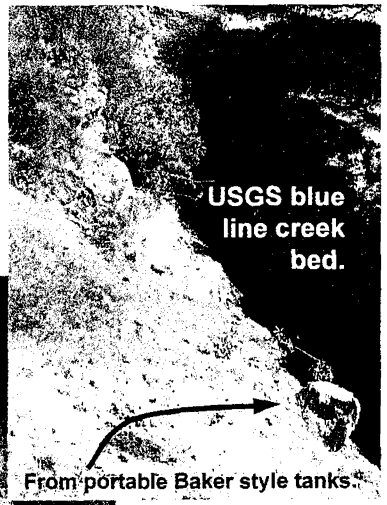
OG111 (2/95/GSR1/5M)

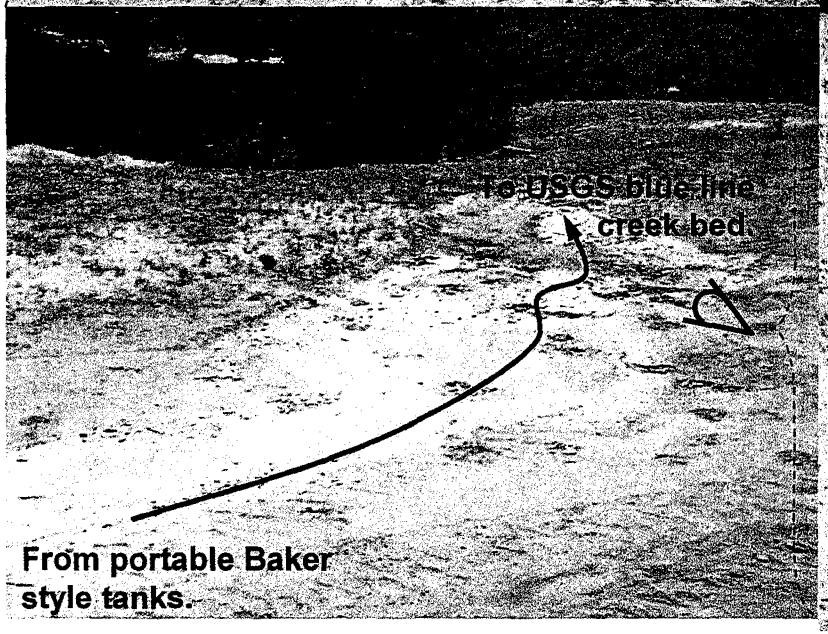
Illegal Waste Water Discharges – Portable Baker Tank

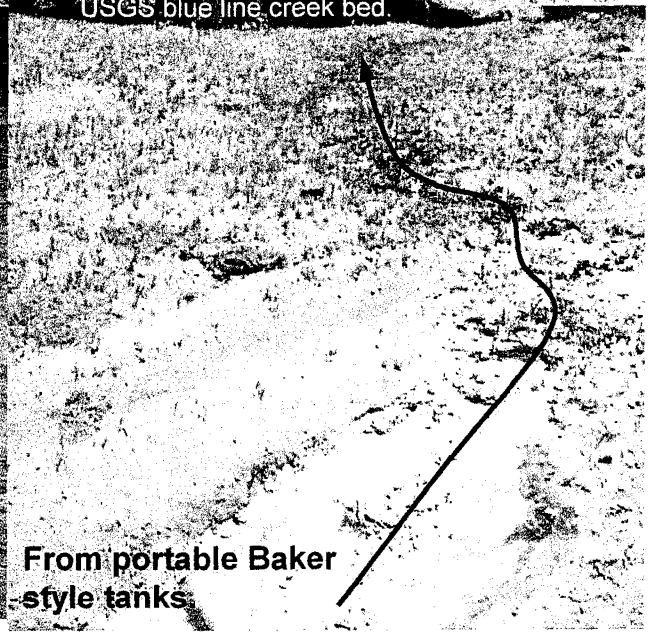






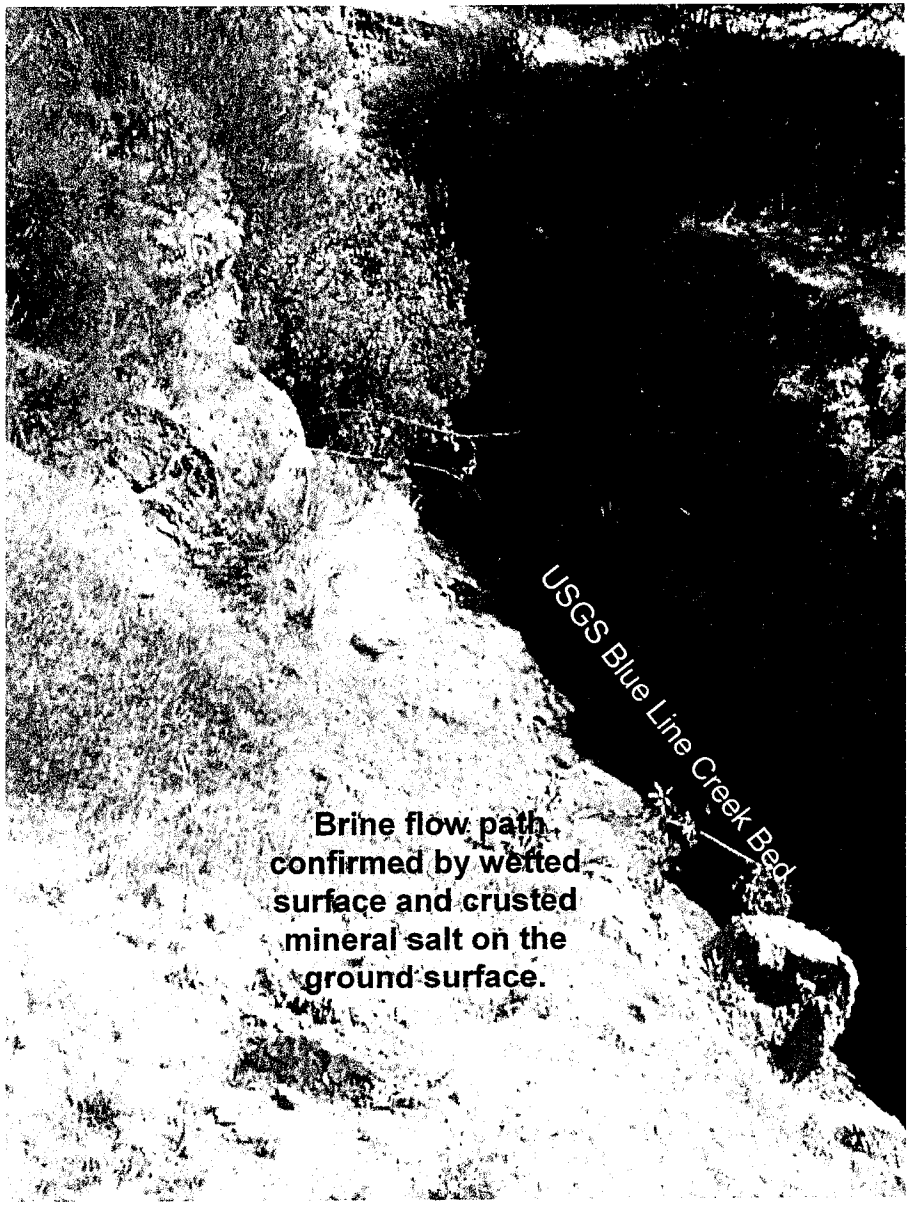


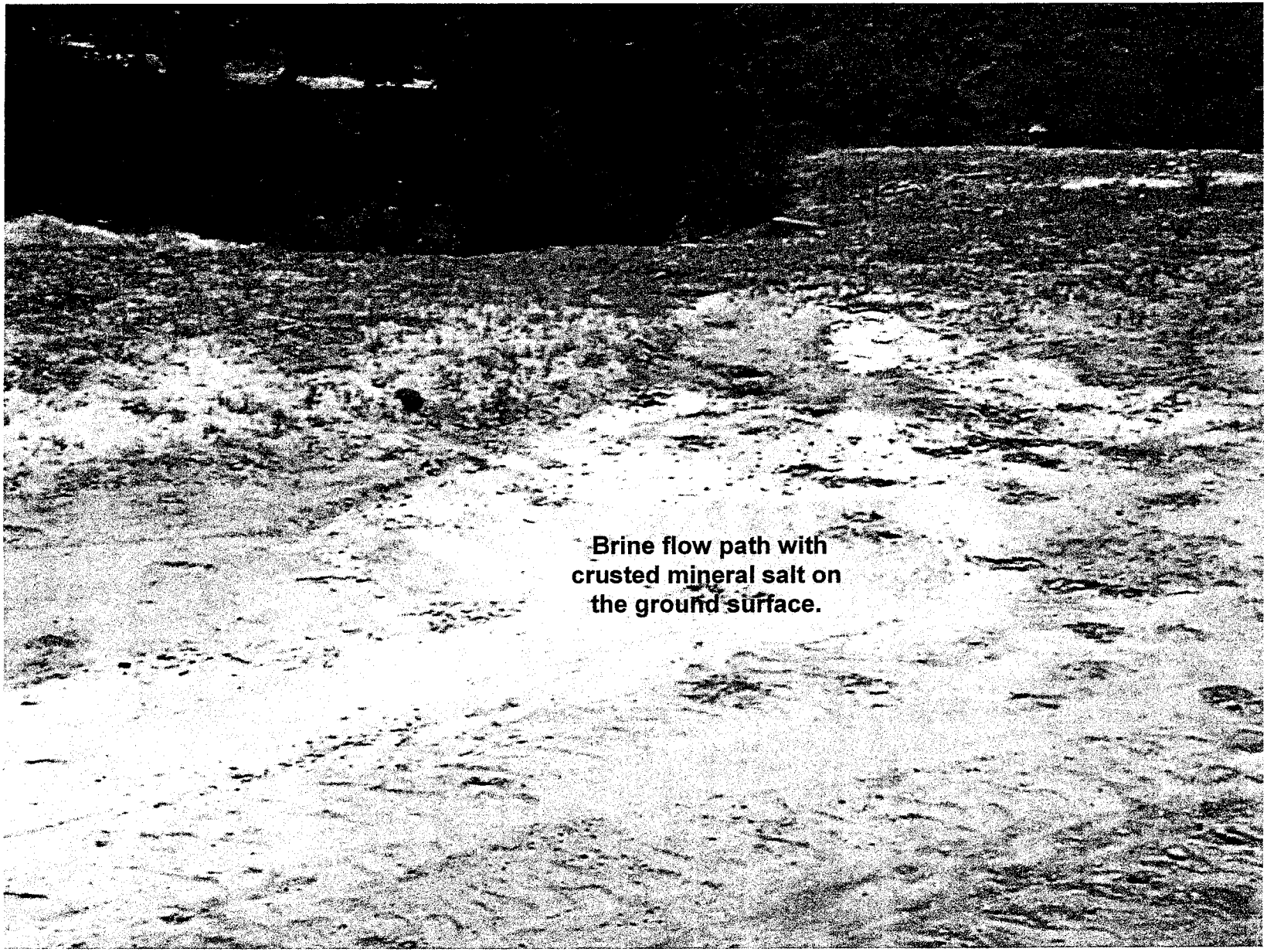


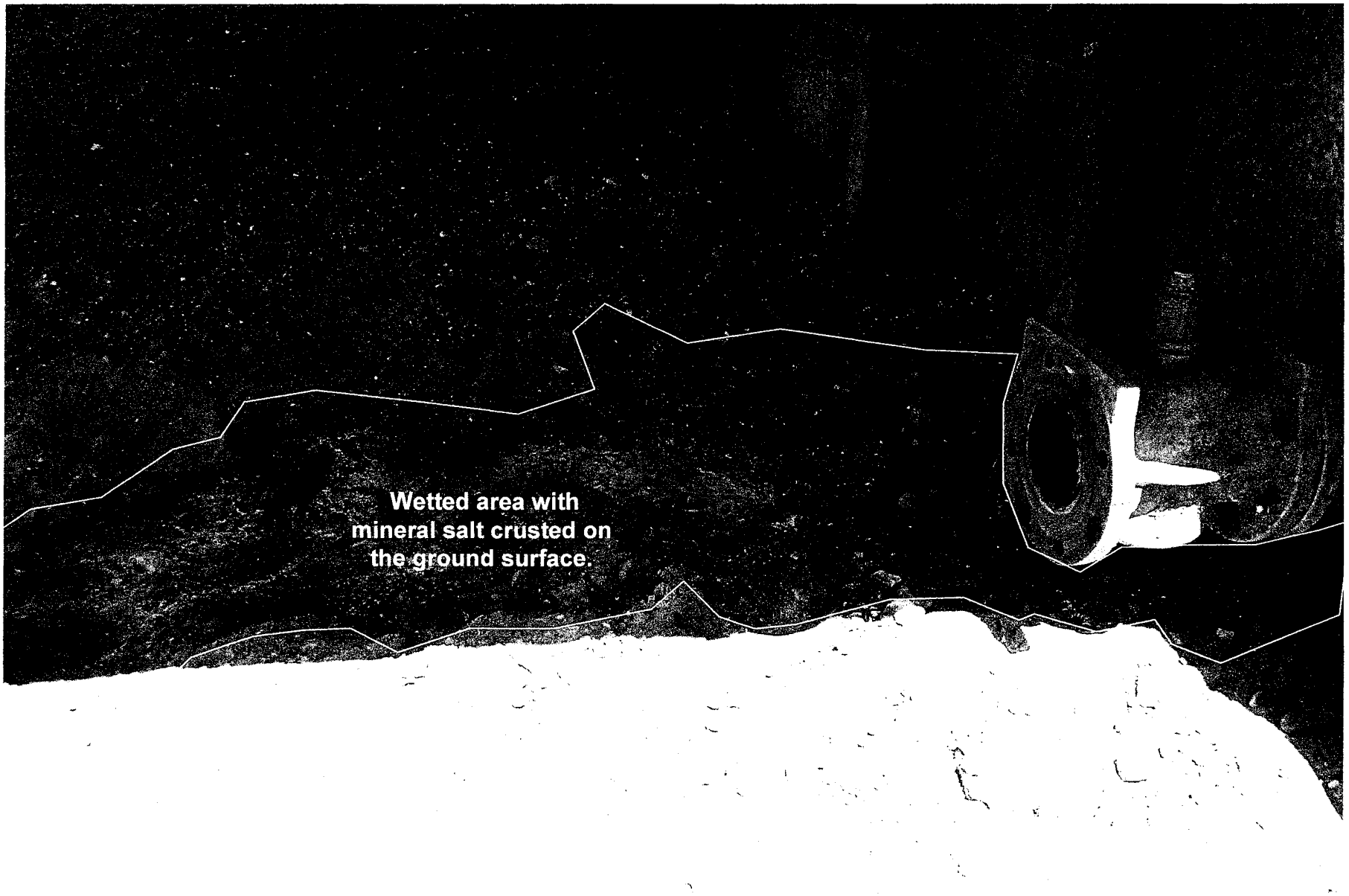


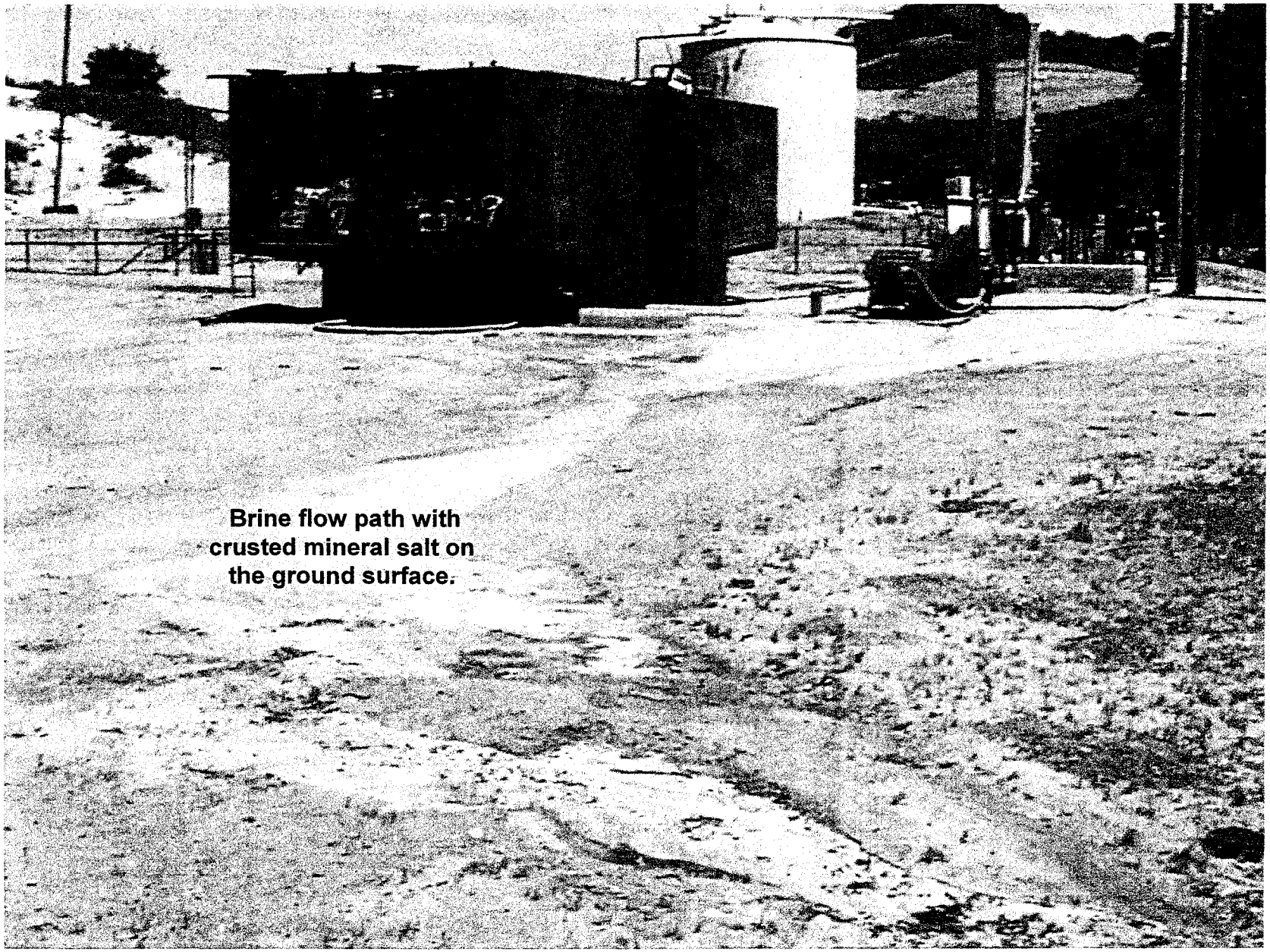
(1)


USGS Blue Line Creek Bank
Brine flow path confirmed by wetted surface and crusted mineral salt on the ground surface.

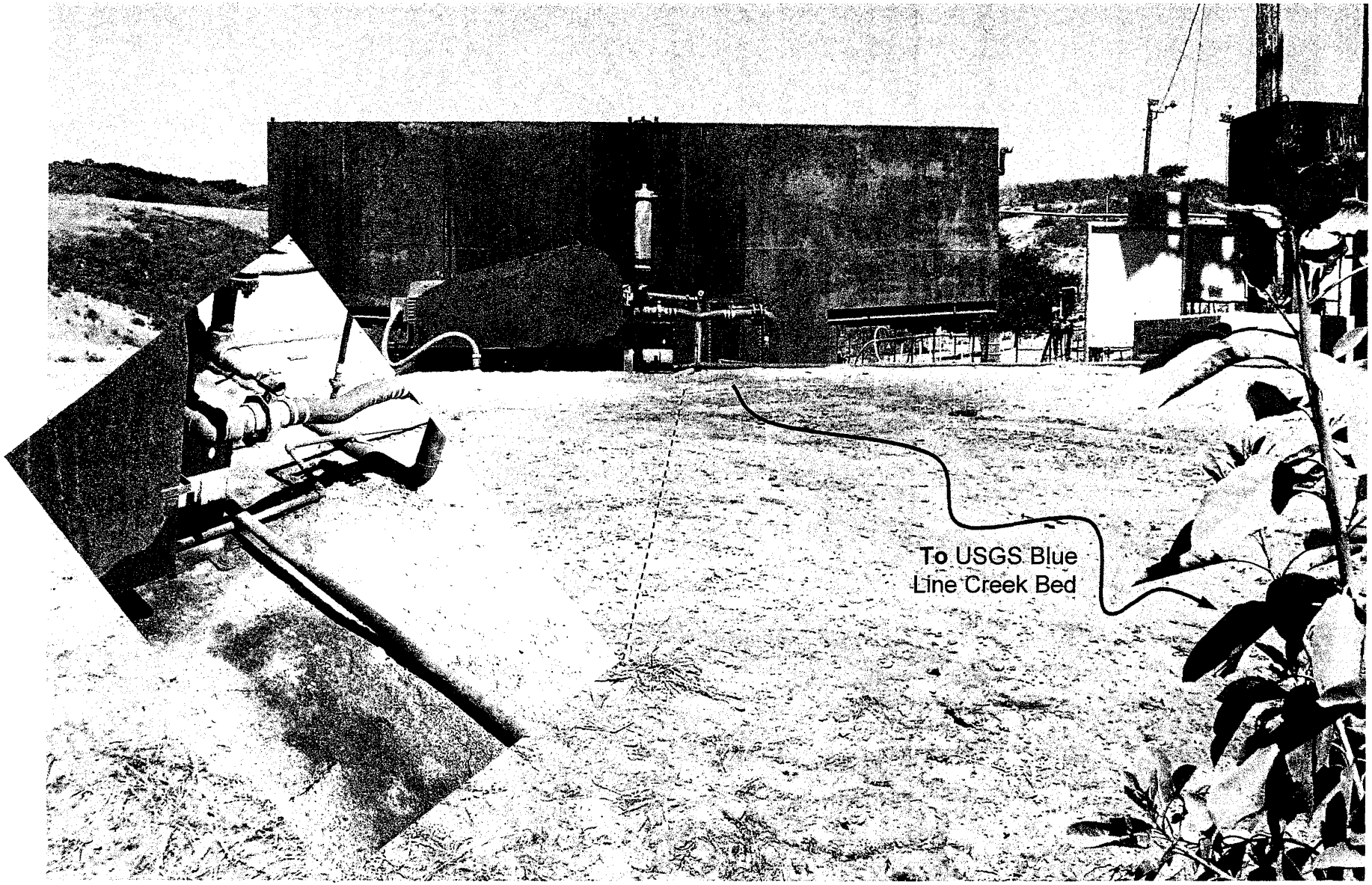

USGS Blue Line Creek Bed
Brine flow path confirmed by wetted surface and crusted mineral salt on the ground surface.


Brine flow path with
crusted mineral salt on
the ground surface.

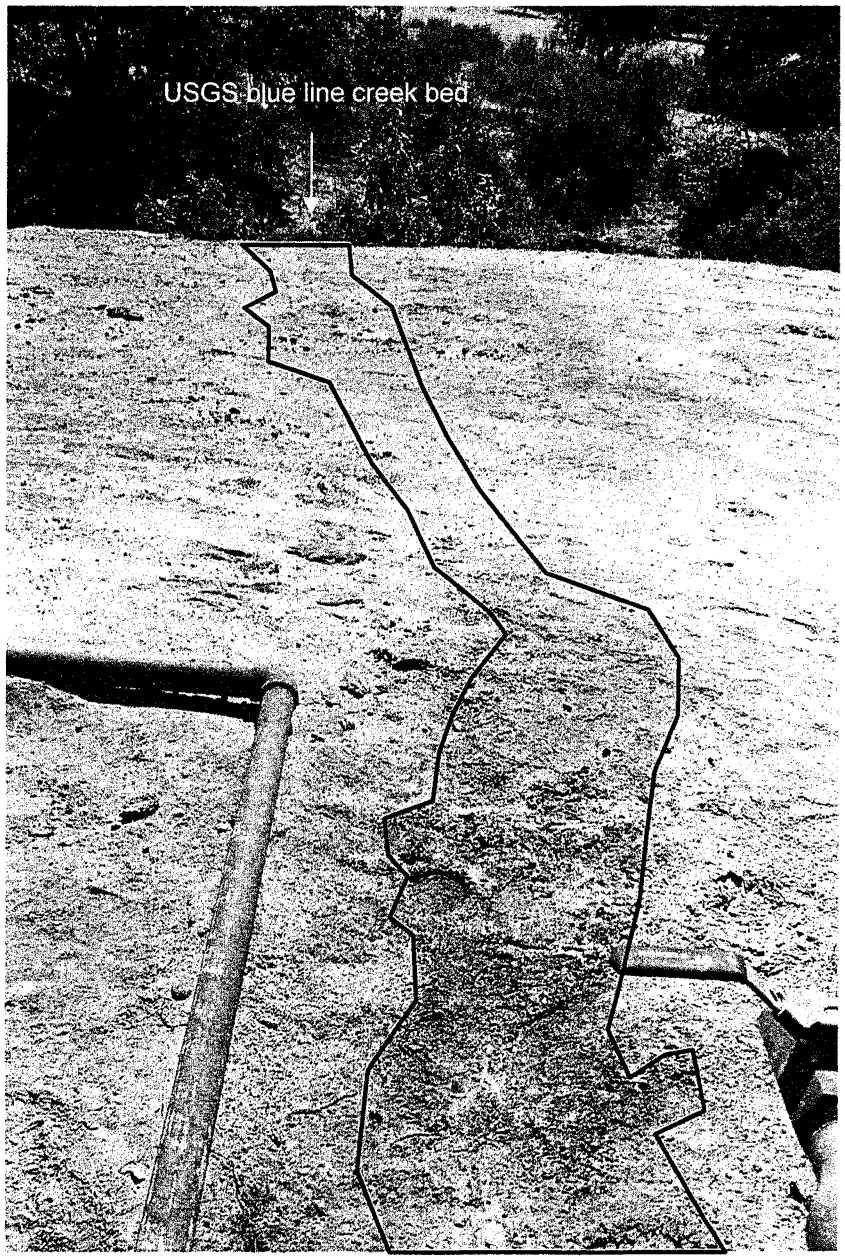

Wetted area with
mineral salt crusted on
the ground surface.


Brine flow path with
crusted mineral salt on
the ground surface.

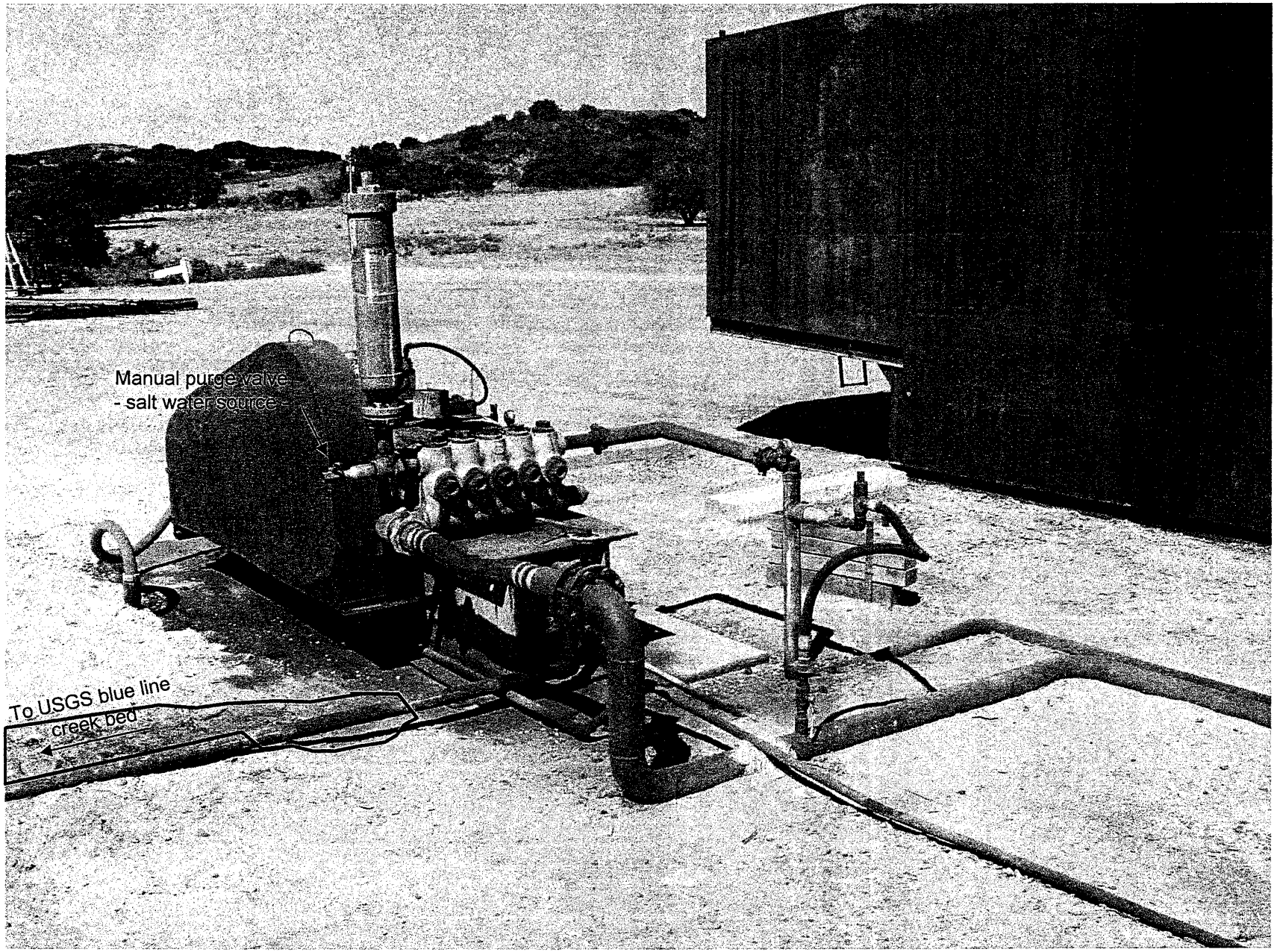
Illegal Waste Water Discharges – Purge valve on PEI waste water pump.



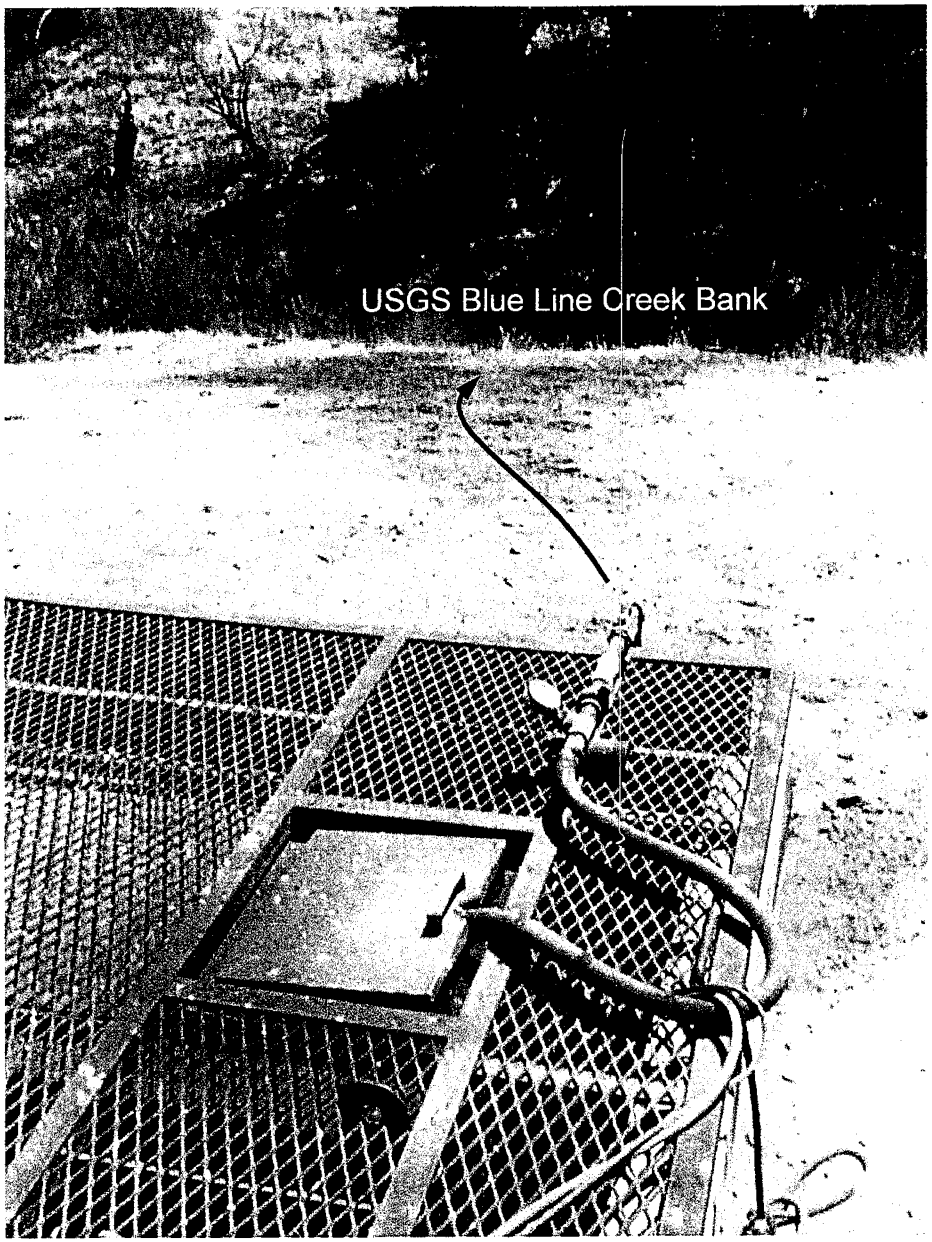
Purge Valve And Wetted Water Trail on 9/23/2006

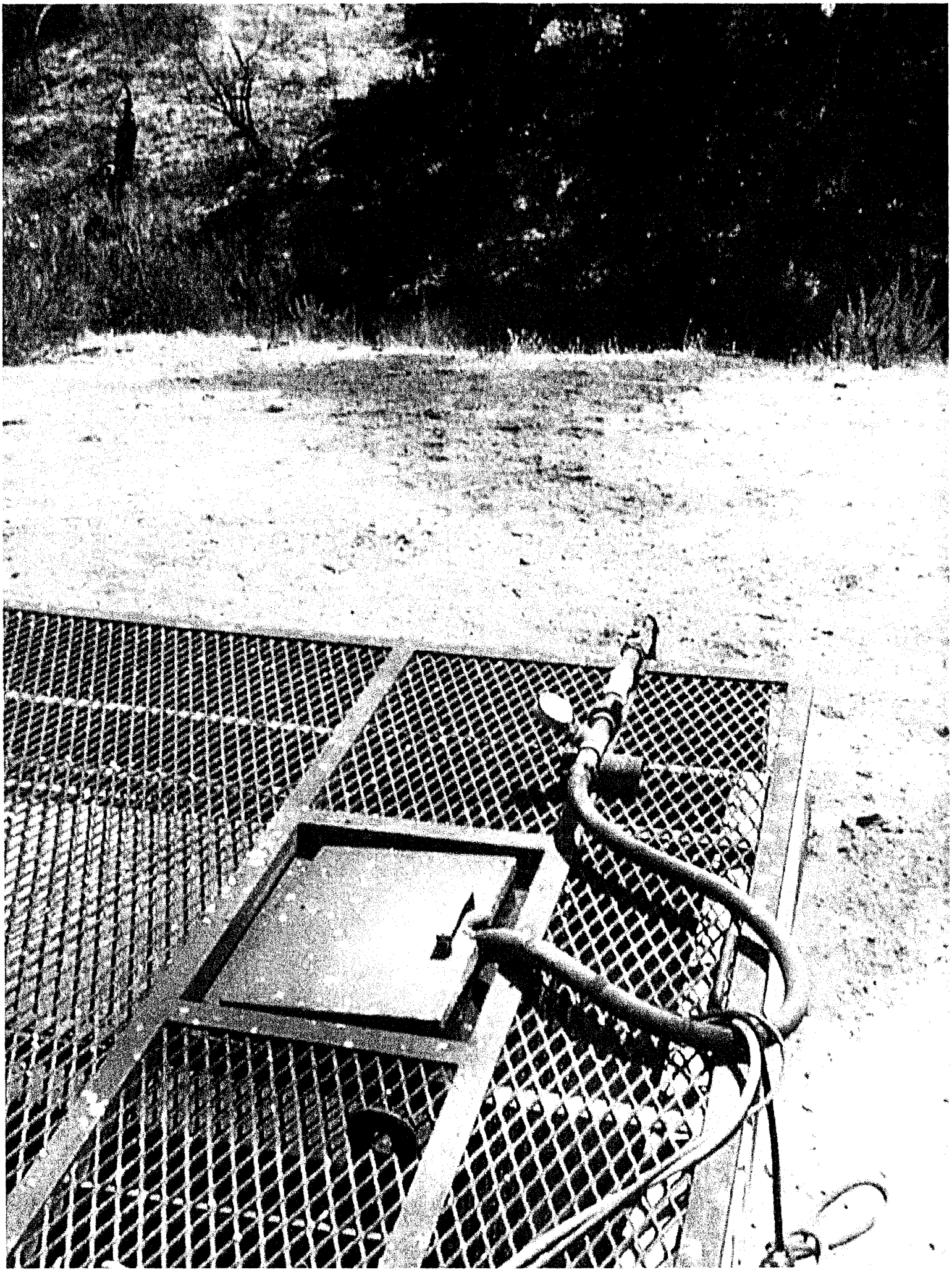


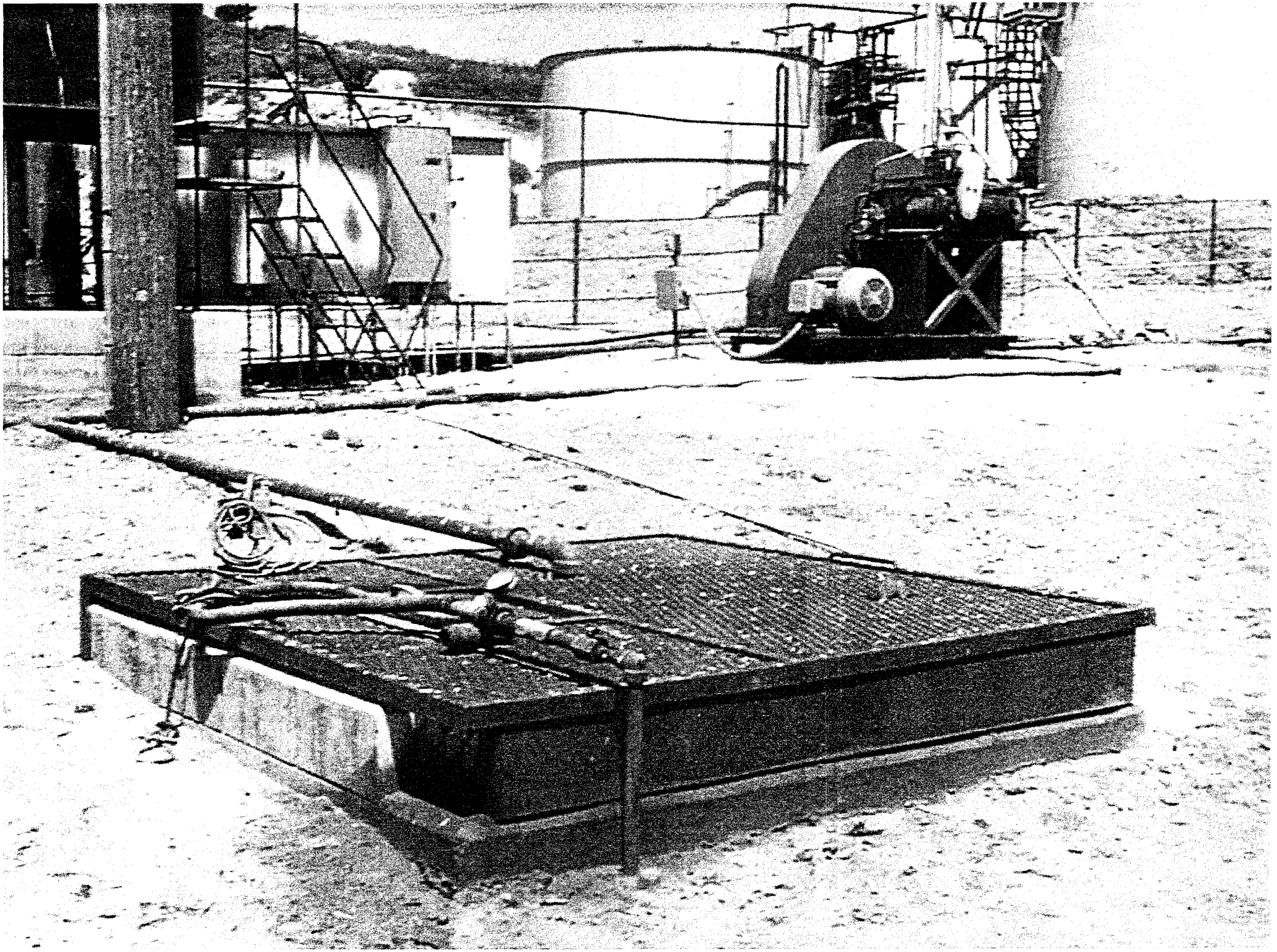
Purge Valve And Wetted Water Trail on 9/22/2006



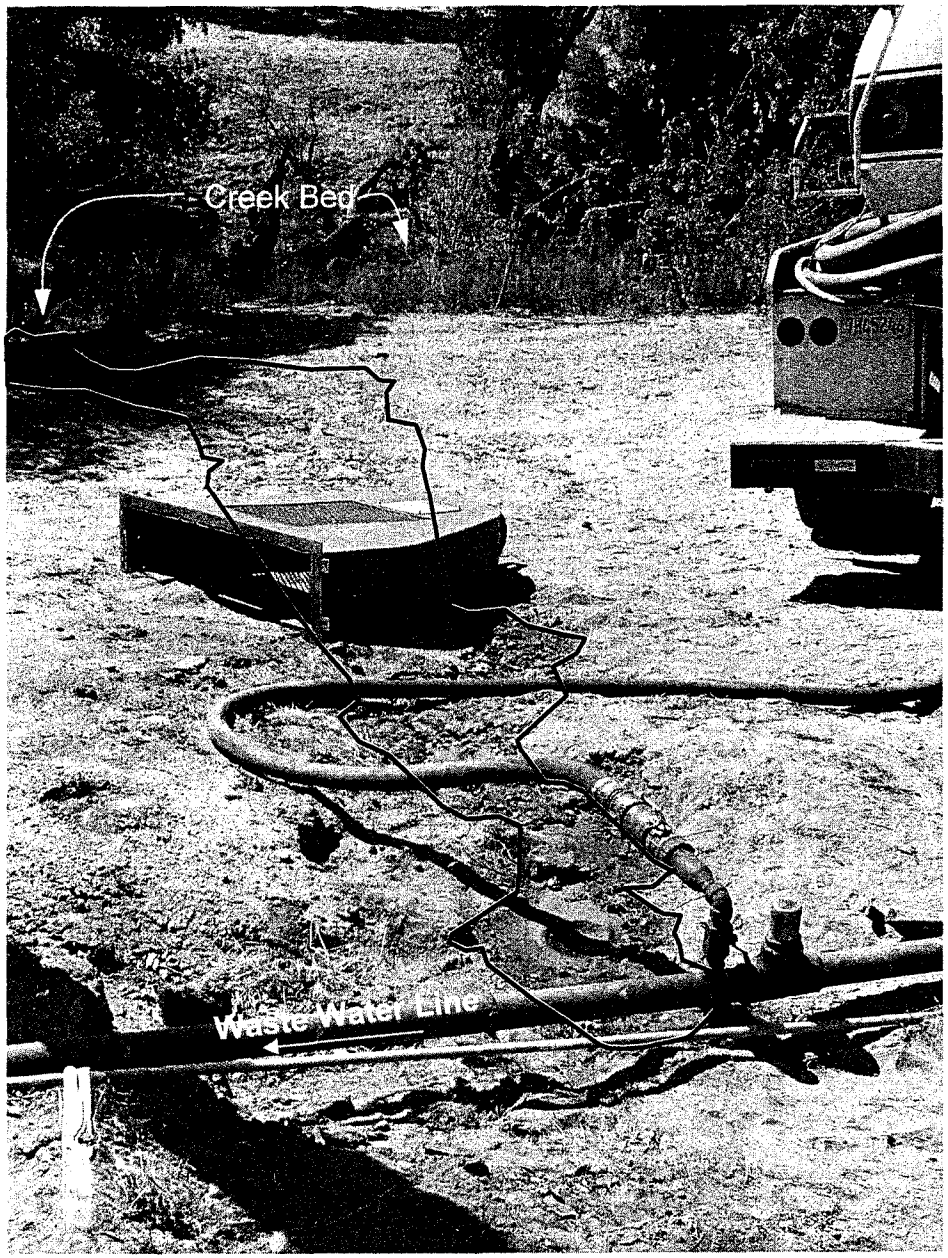
Illegal Waste Water Discharges – Overflow from drain collection sump.







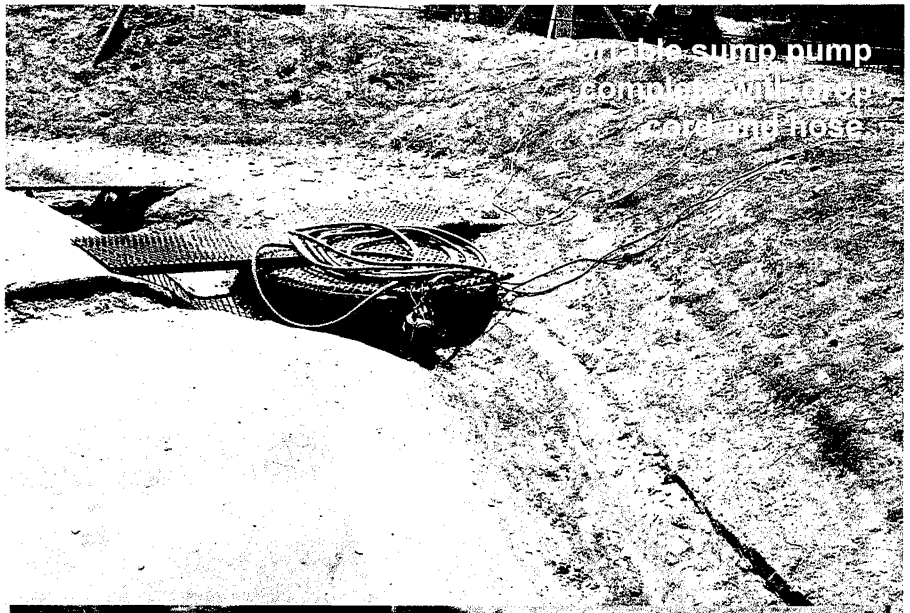
Saltwater Discharge From Draining of Waste Water Line on 9/22/2006





(4) waste water drain / line

Illegal Waste Water Discharges – Portable Sump Pump



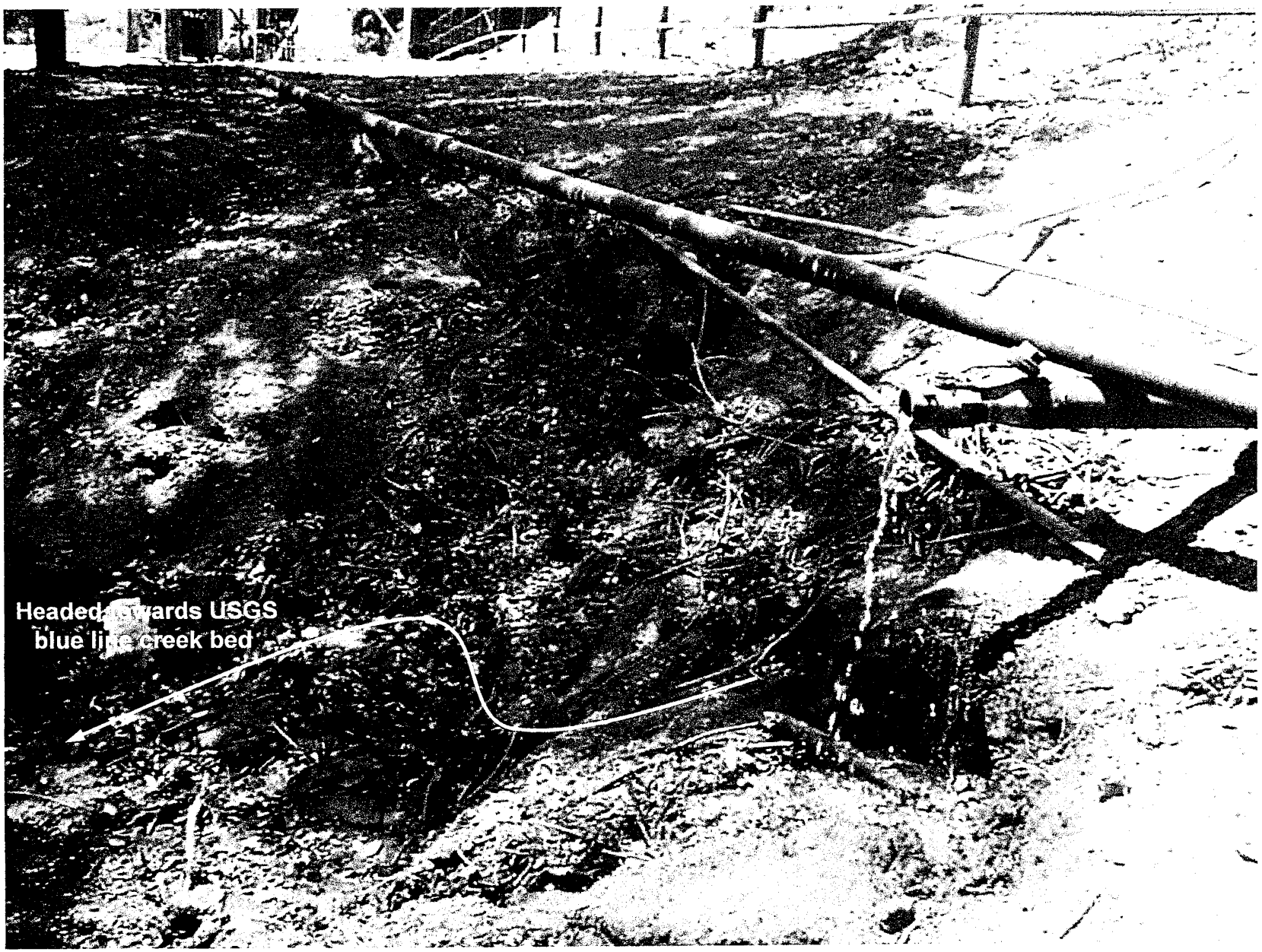


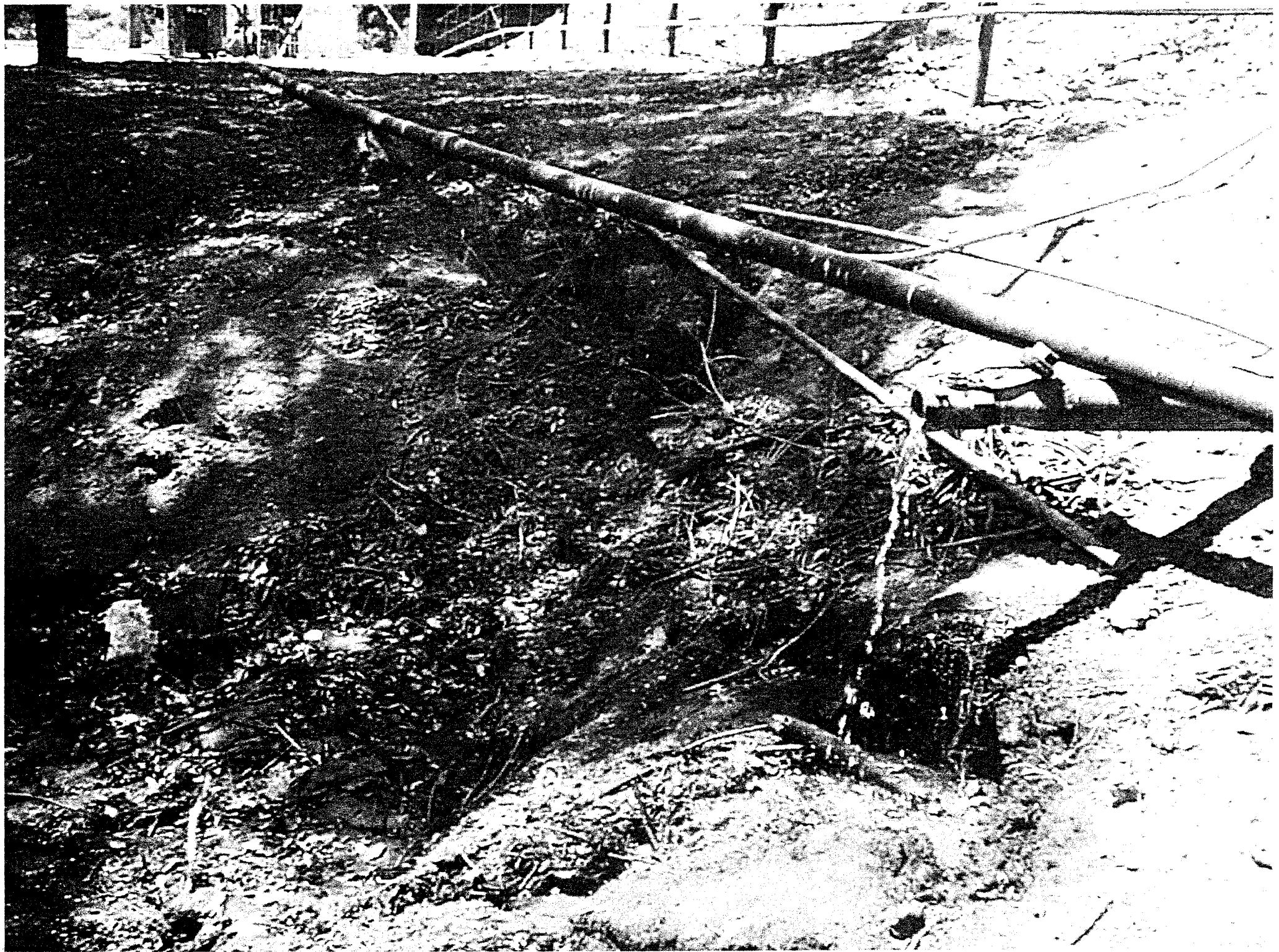






Illegal Waste Water Discharges – 2-Inch Drain From PEI Tank Battery

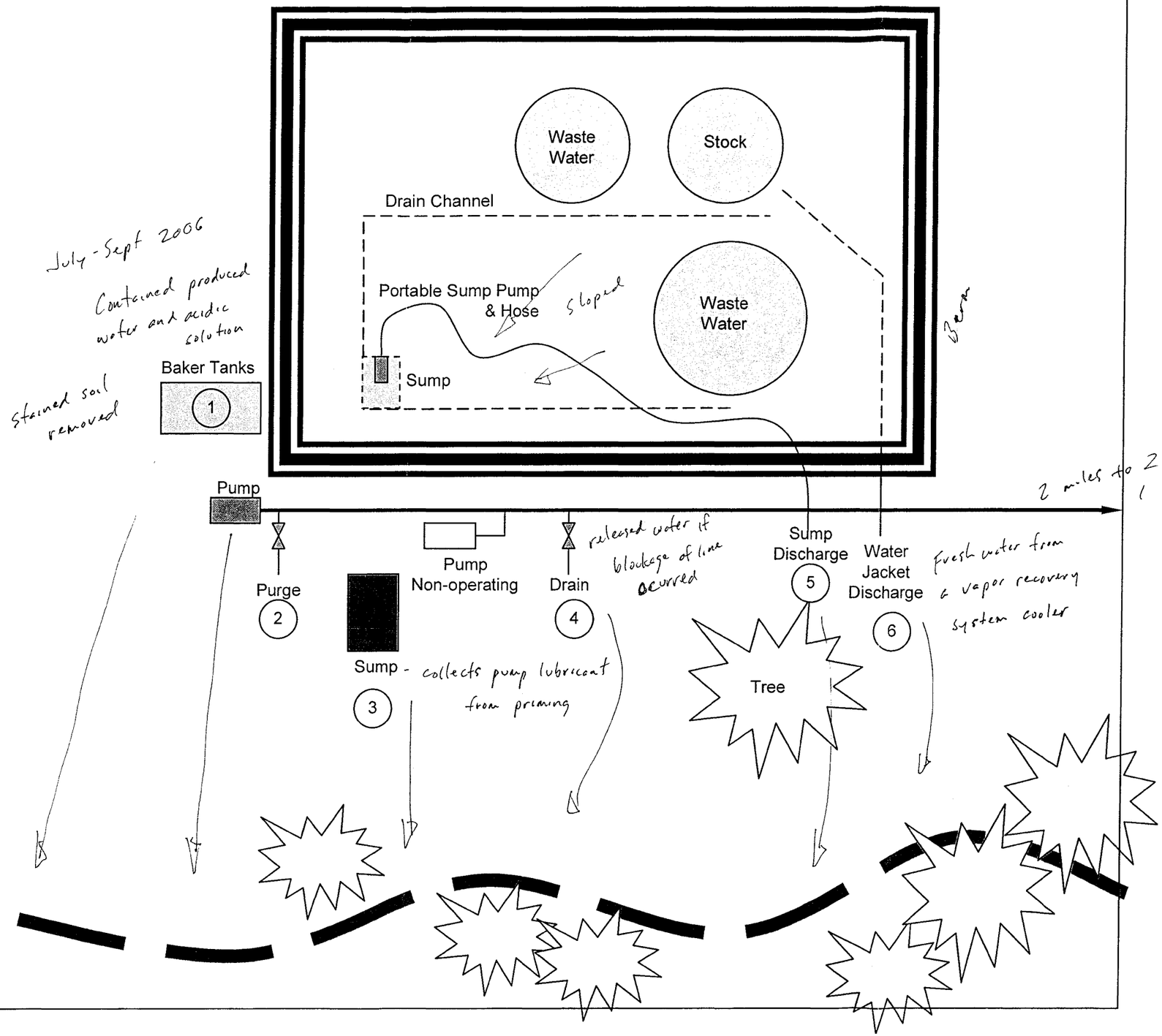


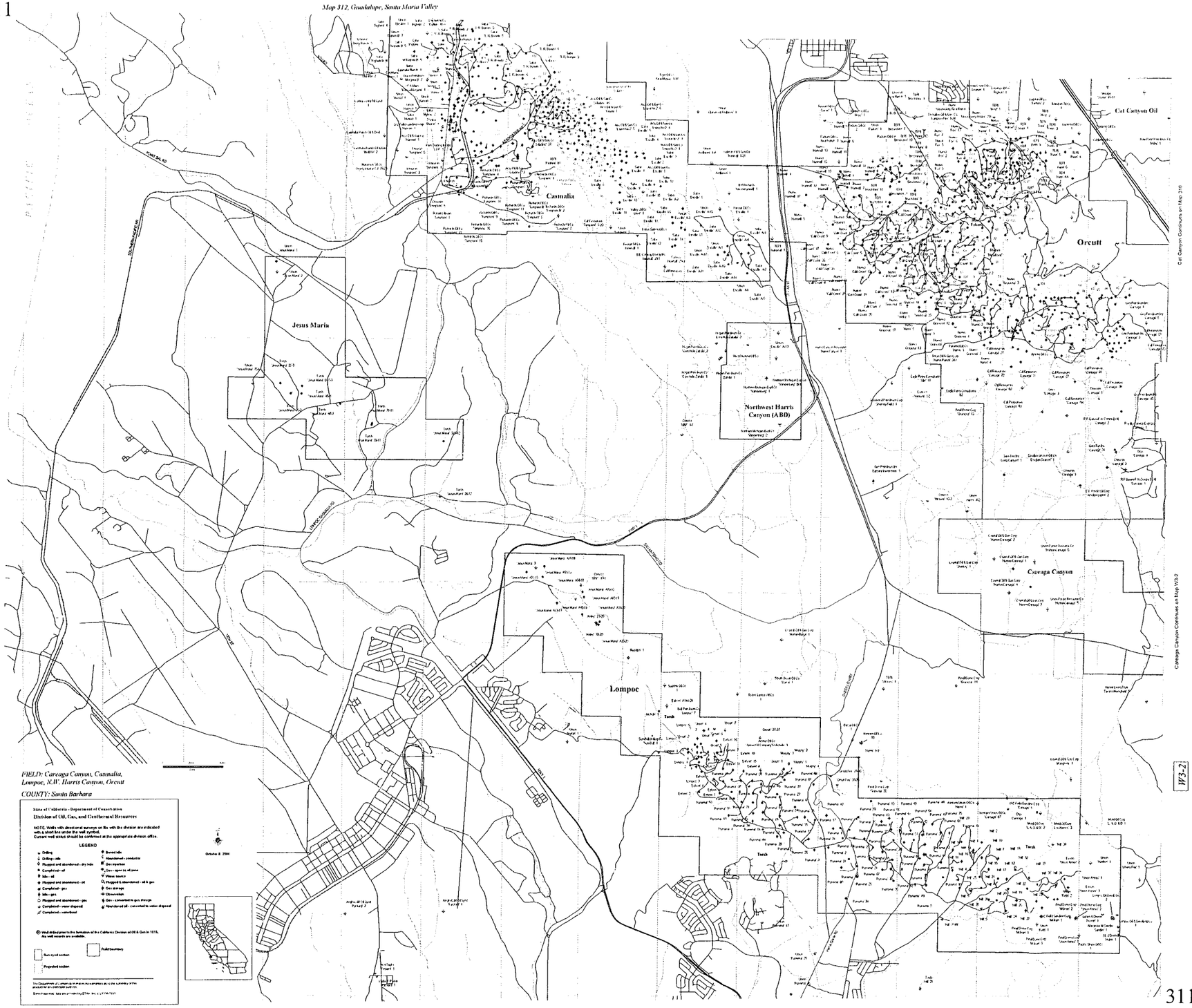


(6)



Phoenix Tank Battery and Discharges To Creek





x = tank battery

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

PACIFIC COAST ENERGY COMPANY, LP

ORCUTT HILL FACILITIES

1555 ORCUTT HILL ROAD, ORCUTT, CALIFORNIA

Waste Discharge Identification (WDID): 3 42I026106

Exceedance Response Action (ERA) Status: Level 2

SWPPP REVISION DATE: March 27, 2020

PREPARED BY: Trihydro Corporation, Inc.

142 Cross Street, Suite 200 San Luis Obispo, CA 93401

3.0 POTENTIAL POLLUTANT SOURCES

The activities at the facility described below have the potential to impact storm water. Table 2 presents a list of significant industrial materials stored or used at the site.

3.1 INDUSTRIAL PROCESSES

The following industrial processes are conducted at the site:

- Crude oil and natural gas production
- Seep cans
- Crude oil separation, storage, and transfer to pipelines
- Natural gas treatment and reuse
- Produced water storage and injection
- Maintenance activities

Each of these processes is discussed in more detail in the following sections. Table 3 presents the potential pollutants sources associated with industrial processes at this Facility. Section 5 contains narrative descriptions of the BMPs implemented at the site to mitigate and prevent storm water pollution associated with the Facilities industrial processes.

3.1.1 CRUDE OIL AND NATURAL GAS PRODUCTION

Crude oil, water, and natural gas are pumped from production wells located on the well pads throughout the Facility. Crude oil, water, and natural gas are extracted from the ground using the on-site wells and piped via flow lines to one of the tank facilities for processing. In the diatomite portion of the facility, steam is injected into the formation via the diatomite wells to stimulate oil production.

The process includes handling crude oil, produced water, and natural gas. In addition, some chemicals (scale inhibitor, corrosion inhibitor, etc.) are introduced into the pipelines to maintain the integrity of, and extend the life of, the pipelines. These materials have the potential to contribute oil and grease to storm water discharges.

An average of 3,700,000 gallons of crude oil and produced water is handled on a daily basis. The corrosion inhibitors and other chemicals are stored and used in much smaller quantities (typically less than 100 gallons are stored at each location).

There are no manufacturing operations involved in this process other than pumping material out of the ground. There are no routine cleaning operations in this process, but equipment may be cleaned as a part of maintenance and repair operations. There are no routine rinsing or recycling operations. Produced water is either treated and reused to create steam in the diatomite process or disposed by putting it back in the formation via an injection well (see below). Rags that become contaminated with oil during use are laundered and reused. Other waste materials are placed in dumpsters and transported offsite for appropriate disposal.

3.1.2 SEEP CANS

The process includes handling crude oil. No other materials are used in the process. The seep cans are located throughout the facility. Crude oil naturally comes out of the earth's surface at various locations around the facility. This is a natural process that occurs at oilfields throughout the world; the location where oil naturally comes to the surface is called a "seep." In order to capture this oil and minimize the potential for it to adversely impact the environment, PCEC has installed "seep cans" to collect oil from the seeps. The seep cans are perforated vertical piping placed in the ground to collect the oil. At some of the locations, French drains (underground, rock-lined drainage channels) were installed adjacent to the seep cans to collect the oil and convey it to the seep can.

Some of the seep cans are equipped with pumps that pump the oil from the seep can to the oil pipelines. These pipelines convey the oil to the tank facilities where it is processed (see next section). The other seep cans are not equipped with pumps; the oil in them is removed by vacuum truck and transported to the tank facilities where it is processed (see next section).

Crude oil has the potential to contribute oil and grease to storm water discharges. Each seep varies significantly, as this is dependent on time of year and precipitation.

There are no manufacturing operations involved in this process other than pumping the collected material to the tank facilities or removing the material with a vacuum truck and hauling it to the tank facilities. There are no routine cleaning operations in this process, but the seep cans and equipment may be cleaned as a part of maintenance and repair operations. There are no routine rinsing, recycling, disposal, or other activities related to this process.

3.1.3 CRUDE OIL SEPARATION, STORAGE, AND TRANSFER TO PIPELINES

This process occurs in one of the four (4) tank facilities at the site. These tank facilities are located at the Cal Coast Lease, the Pinal Fee, and the Newlove Fee which has two tank facilities, including one for the diatomite process.

The mixture of crude oil and produced water is placed in tanks and allowed to separate by gravity. As needed, small amounts of treatment chemicals (e.g., emulsion breaker) may be used to help the oil and water separate. Oil pumped from the diatomite production wells is also heated to help break down the oil-water emulsion.

After processing, the crude oil is temporarily stored in tanks and shipped off site via a sales pipeline. The processed water is either treated and used to make steam which is injected into the formation as part of the diatomite process or is stored in tanks and later reinjected into the formation.

The process includes crude oil and produced water. A small amount of treatment chemicals (e.g., emulsion breaker to help the oil and water separate) are used in the process. These materials have the potential to contribute oil and grease to storm water discharges. An average of 3,700,000 gallons of crude oil and produced water is handled daily. The oil processing chemicals are used in much smaller quantities (storage of these materials typically averages around 4,000 gallons between the four locations).

Manufacturing includes the production of crude oil by separating from the water it is produced with. There are no routine cleaning operations in this process, but tanks and equipment may be cleaned as a part of maintenance and repair operations. There are no routine rinsing or recycling operations. Produced water is either treated and reused to create steam in the diatomite process or disposed by putting it back in the formation via an injection well (see following section). Rags that become contaminated with oil during use are laundered and reused. Other waste materials are placed in dumpsters and transported offsite for appropriate disposal.

3.1.4 NATURAL GAS TREATMENT AND REUSE

This process occurs in one of the four (4) tank facilities at the site. These tank facilities are located at the Cal Coast Lease, the Pinal Fee, and the Newlove Fee which has two tank facilities, including one for the diatomite process.

The process includes natural gas and hydrogen sulfide removing material. After the natural gas is separated from the crude oil and water, water and liquid hydrocarbons (called natural gas condensate) are removed from it. A liquid hydrogen sulfide scavenger is used to remove hydrogen sulfide from the gas. Once treated, the natural gas is reused at the facility to power the engines at the wellheads or combusted in the diatomite steam generation process. As the natural gas is a gaseous material, this process takes place in enclosed vessels and pipelines, minimizing the potential for contact with storm water.

Natural gas is a flammable gas. The hydrogen sulfide removing material is a hydrocarbon-containing product. Natural gas condensate is a mixture of hydrocarbons. The amount of natural gas varies. An average of 16,000 gallons of sulfide scavenger is on site at any one time. An average of 4,000 gallons of natural gas condensate is present at the site.

The manufacturing operations involved in this process include removing the liquid materials (liquid phase hydrocarbons and water) from the natural gas and treating it to remove hydrogen sulfide. There are no routine cleaning operations in this process, but tanks and equipment may be cleaned as a part of maintenance and repair operations. There are no routine rinsing or recycling operations.

Waste materials generated during this process include water and natural gas condensate. The water generated is handled in the same manner as the produced water (see next section). Natural gas condensate is shipped from the site in the oil sales pipeline.

3.1.5 PRODUCED WATER STORAGE AND INJECTION

The process involves the handling of produced water. In addition, water treatment chemicals are used to treat the water that is converted to steam and reinjected into the diatomite process. This process occurs in one of the four (4) tank facilities at the site. These tank facilities are located at the Cal Coast Lease, the Pinal Fee, and the Newlove Fee which has two tank facilities, including one for the diatomite process.

After it is separated from the crude oil, some of the produced water is treated, converted into steam, and reinjected into the diatomite formation. Other produced water is injected into the formation around the other production wells via injection wells.

Produced water may contain trace amounts of hydrocarbons. The water treatment chemicals also contain hydrocarbons or have a high or a low pH. An average of 3,600,000 gallons of produced water are handled on a daily basis. The water treatment chemicals are used in much smaller quantities (storage of these materials typically averages around 2,000 gallons).

There are no manufacturing activities associated with this process. There are no routine cleaning operations in this process, but tanks and equipment may be cleaned as a part of maintenance and repair operations. There are no routine rinsing or recycling operations. Produced water is disposed of by putting it back in the formation via an injection well.

3.1.6 MAINTENANCE ACTIVITIES

Maintenance activities take place throughout the industrial areas of the facility. Industrial equipment at the facility including well pumps, processing equipment, and injection equipment is maintained and repaired. Significant materials used in maintenance activities include lubricating oils. Other materials (e.g. grease, antifreeze) are used in smaller quantities. These materials are liquids that have the potential to contribute oil and grease to storm water discharges. Some chemicals used in smaller quantities (e.g., cleaning agents) may have the potential to raise or lower pH. An average of 6,000 gallons of lubricating oil are stored at the site. Smaller quantities of other materials may also be used.

There are no manufacturing activities associated with this process. Equipment is cleaned as necessary as a part of the maintenance activity. Waste material generated are handled and disposed of in accordance with applicable waste and hazardous waste regulations.

3.2 MATERIAL HANDLING AND STORAGE AREAS

Description of Material Handling and Storage Areas

Materials are handled and stored at all industrial areas of the facility. See Section 3.1 for more information including the type, characteristics, and quantity of materials handled and stored.

Description of Shipping, Receiving and Loading Procedures

Produced materials (crude oil) are shipped from the facility via pipeline. Other materials shipped from the site (e.g., hazardous waste) are stored in closed containers and loaded onto waste hauling trucks and sent offsite.

The majority of the industrial material received from off site (oilfield chemicals, oil processing chemicals, water treatment chemicals) are brought to the facility in tanker trucks and unloaded into facility storage tanks using pumps and hoses. Some chemicals that are used at the facility are brought on site in drums and other smaller containers and unloaded. These materials are used up in the process, or become part of the crude oil that is shipped via the sales pipeline, and are not routinely shipped from the site in vehicles.

Spill or Leak Prevention and Response Procedures

Spill and leak prevention procedures at the facility include maintaining equipment in good operating condition to minimize the potential for spills and leaks. Additionally, tanks and vessels are inspected and tested as required by the facility's SPCC Plan and Preventive Maintenance Plan. Pipelines are tested and maintained as required by the facility's Pipeline Management Plan.

The basic spill and leak response procedures are to: alert others, stop the spill, contain the spill, clean up the spill, and notify the appropriate regulating agencies. These procedures are presented in more detail in Section 5.1.4 of this document as well as the facility's SPCC Plan, Spill Contingency Plan (SCP), Inland Contingency Plan, and Hazardous Materials Business Plan, which are incorporated herein by reference.

Containment Structures and Capacity

Oil-containing tanks are contained by walls and/or earthen berms that are designed to contain the largest vessel in the containment area and precipitation. Refer to the facility's SPCC plan, which is incorporated herein by reference, for specific information and containment capacity.

Well pads at the facility are contained by berms; a diagram of a typical berm is presented in Figure 14. The size and configuration of each berm is different, but they are designed to contain spills from the oil wells. The specific containment capacity of each berm has not been calculated as the berms pre-date the effective date of the current IGP. A Beneficial Reuse Program has been implemented at the Facility and material reused for berms are tracked in Annual Monitoring and Reporting for Beneficial Reuse (Appendix C).

3.3 DUST AND PARTICULATE GENERATING ACTIVITIES

The major industrial activities at the facility (oil and natural gas production) have limited potential to generate dust and particulates as the materials used in the process are in enclosed pipelines and vessels.

Some maintenance activities at the site (e.g., welding) have the potential to generate minute amounts of dust and particulate material; however, given the infrequency and limited scale of these activities, significant dust and particulate generation is not expected.

The areas around many of the well pads and tank facilities are unpaved. Therefore, vehicle travel over these areas may create dust and particulates. In addition, wind blowing over these areas may create windblown dust.

3.4 SIGNIFICANT SPILLS AND LEAKS

The facility has not experienced a significant spill or leak of industrial materials (including but not limited to oil, etc.) or hazardous or toxic substances in the past five (5) years that resulted in, or had the potential to result in, discharge from the facility's storm water conveyance system.

The facility has been evaluated for areas where spills and leaks may occur. Secondary containment (walls and/or earthen berms) have been deployed in areas where spills and leaks may occur around well pads and storage tanks (Appendix C).

3.5 NON-STORM WATER DISCHARGES (NSWDS)

The following authorized non-storm water discharges may occur during normal operations:

- **Landscape irrigation**: There are a few small landscaped areas in the Main Plant. There may be some irrigation water overspray that occurs in these areas and it is possible that irrigation water could leave the landscape area if there was a system failure (e.g., broken sprinkler head). Given the size of the landscape areas, the amount of water used for irrigation, and the distance to the facility boundary, this water will not leave the facility. In fact, under most conditions, this water will not leave the industrial areas of the facility. Therefore, this source may not ever cause a non-storm water discharge, but it has been included in this plan for completeness. The following information is presented as required by the IGP:

  Source: Landscape irrigation water.

  Quantity: The quantity that leaves the landscape area is expected to be between 0 and 25 gallons per day. The quantity that leaves the facility is expected to be 0 gallons per day. The quantity that leaves the industrial area is expected to be 0 gallons per day.

  Frequency: The frequency of generation varies with weather and time of year. During the winter, there may be weeks where the landscape is not watered. During the summer, the landscape is watered every few days.

  Characteristics: Fresh well water and/or well water that has contacted landscape.

  Associated Drainage Area: Drainage Area 3 (DA3)

  Authorized or Unauthorized NSWD: Authorized.

  This water will generally flow to the west towards the Main Plant. There are no drains or storm water conveyance structures in the immediate area. Discharges will generally sheet flow across paved access roads.

- **Fire suppression system testing**: Various buildings in the Main Plant are equipped with fire suppression systems. These systems undergo routine testing to ensure that they are functioning properly. The testing of these systems may generate small amounts of water. Given the amount of water generated during testing, and the distance to the facility boundary, this water is not expected to not leave the facility. In fact, under most conditions, this water will not leave the industrial areas of the facility. Therefore, this source may not ever cause a non-storm water discharge, but it has been included in this plan for completeness.

Source: Fire suppression system.

Quantity: The quantity generated during the testing process is expected to be between 0 and 50 gallons per testing event. The quantity that leaves the facility is expected to be 0 gallons per day. The quantity that leaves the industrial area is expected to be 0 gallons per day.

Frequency: The systems are tested monthly by PCEC. Additional quarterly and annual testing is performed by a third-party contractor.

Characteristics: Fresh well water.

Associated Drainage Area: Drainage Areas 2, 3 and 7. (DA2, DA3, and DA7)

Authorized or Unauthorized NSWD: Authorized.

There are no drains or storm water conveyance structures in the immediate area. Discharges will generally sheet flow across paved access roads.

Additionally, the facility includes cattle water troughs in various locations that are not part of the industrial operations of the facility and are not under PCEC's control.

Normal operations are not expected to cause unauthorized non-storm water discharges. Wash waters generated in the Vehicle Wash Down Area are collected to prevent it from discharging. Produced water at the facility is handled in enclosed tanks, pipelines and equipment and is not expected to discharge during normal operations.

However, it is possible that a pipe or equipment failure could cause a discharge of produced water. In most instances, if this were to occur the amount of water released would be limited and unlikely to discharge from the site. However, if there were a catastrophic failure of a large produced water tank or pipeline, it is possible that it could result in a discharge from the facility.

Unauthorized non-storm water discharges have been eliminated by removing water that collects in the Vehicle Wash Down Area sump with a vacuum truck and injecting it into the formation and maintaining produced water handling equipment in good condition.

3.6 ERODIBLE SURFACES

The area around many of the well pads and some of the operational areas are unpaved. Therefore, there is the potential for soil erosion by contact with storm water. However, the majority of these areas are relatively flat, minimizing the

potential for erosion. In addition, aggregate material (gravel or crushed rock) or wood chips has been placed over many of these unpaved areas to limit erosion. Berms have been placed around the well pads to contain storm water and allow sediment to settle out prior to discharge (Appendix C).

A significant amount of non-industrial erodible sources is present throughout the facility. These areas include cattle grazing and farmland, and have the potential to increase TSS levels, however, where feasible industrial sources have been isolated from the non-industrial sources. Due to this, the non-industrial erodible sources are not considered a potential pollutant as they are not associated with industrial activity.

3.7 OFFSITE RUN ON

Due to the mountainous nature of the area, in some industrial locations (e.g., well pads) storm water runs on from the surrounding areas. In areas where it is practical, run on is diverted around the operational area. However, there are some locations where this is not possible. Based on sampling data and visual observation, this run on is expected to contain elevated levels of sediment.

Where feasible, berms have been placed around the industrial areas to contain storm water, including run on, and allow storm water to percolate and/or sediment to settle out prior to discharge.

TABLE 2. SIGNIFICANT MATERIALS STORED ON SITE
PACIFIC COAST ENERGY COMPANY, LP - ORCUTT HILLS FACILITY
ORCUTT HILLS, CALIFORNIA

Material (Potential Pollutants)	**Storage Location(s); Typical Quantity Stored; Typical Frequency of Storage**	**Receiving Location(s); Typical Quantity Received; Typical Frequency of Receiving**	**Shipping Location(s); Typical Quantity Shipped; Typical Frequency of Shipping**	**Handling Location(s); Typical Quantity Handled; Typical Frequency of Handling**
Crude oil and produced water (oil & grease)	Crude oil and water is pumped out of wells located on the site. The oil is separated from water and stored in above ground tanks in tank facilities. The amount stored varies based on production, but an average of 550,000 gallons is stored at the site. Crude oil and produced water is stored year round.	Crude oil and produced water is pumped from the production wells at the facility. (This material is not brought onto the site; it is produced at the site.) Crude oil is pumped from the wells on a daily basis all year long.	Crude oil and produced water is not shipped from the site. It is separated into crude oil and water. See entries below.	Crude oil and produced water is handled in the industrial areas throughout the facility on a daily basis. An average of 3,700,000 gallons is handled daily.
Crude oil (oil & grease)	After the crude oil is separated from the produced water it is stored in the tank facilities. An average of 360,000 gallons is stored at the site. Crude oil is stored year round.	Crude oil is not brought onto the facility; it is produced at the site. Crude oil is pumped from the wells on a daily basis all year long.	Crude oil is shipped from the facility via a sales pipeline. The volume of oil shipped varies based on production rates, but oil is shipped from the site daily all year long. An average of 100,000 gallons is shipped daily.	Crude oil is produced and handled at the industrial locations throughout the facility. This is a continuous operation. An average of 100,000 gallons is handled daily.
Produced water (potentially containing oil & grease)	Produced water that is separated from the crude oil is temporarily stored in tanks and then injected into the formation via injection wells or converted to steam and injected into the formation as a part of the diatomite process. The amount of produced water stored at the site varies based on production, but an average of 900,000 gallons is stored at the site. Produced water is stored year round.	Produced water is not brought onto the facility; it is produced at the site. Produced water is pumped from the wells year round.	Produced water is not shipped from the site, it is injected into the formation.	Produced water is produced and handled at the operational areas throughout the facility on a daily basis. An average of 3,600,000 gallons is handled daily.

TABLE 2. SIGNIFICANT MATERIALS STORED ON SITE
PACIFIC COAST ENERGY COMPANY, LP - ORCUTT HILLS FACILITY
ORCUTT HILLS, CALIFORNIA

Material (Potential Pollutants)	**Storage Location(s); Typical Quantity Stored; Typical Frequency of Storage**	**Receiving Location(s); Typical Quantity Received; Typical Frequency of Receiving**	**Shipping Location(s); Typical Quantity Shipped; Typical Frequency of Shipping**	**Handling Location(s); Typical Quantity Handled; Typical Frequency of Handling**
Oilfield Chemicals	Oilfield chemicals (corrosion inhibitors, etc.) are stored in small tanks at the well pads. The total amount of material stored varies but is typically around 4,000 gallons; however, the amount of material at any one location is usually 300 gallons or less. These materials are stored year round.	These products are received at the well pads. The quantity received at each location is typically around 100 gallons. These materials are received all year long as they are needed; usually every few weeks.	These materials become part of the crude oil that is shipped from the site (see entry above).	These materials are handled the well pads. There is no routine handling as the tanks containing these materials are piped directly into the process lines.
Oil Processing Chemicals	Oil processing chemicals (emulsion breakers, etc.) are stored in small tanks in the tank facilities. The total amount of material stored varies but is typically around 1,000 gallons. These materials are stored year round.	These products are received in the tank facilities areas. The quantity received is typically around 200 gallons per location. These materials are received all year long as they are needed; usually every few weeks.	These materials become part of the crude oil that is shipped from the site (see entry above).	These materials are handled in the tank facilities. There is no routine handling as the tanks containing these materials are piped directly into the process.
Water Treatment Chemicals	Berms around all well pads Aggregate cover Wood chips Waddles Paved areas where feasible Water bar	These products are received in at the area where they are used, primarily in the diatomite water processing area. The quantity received is typically around 500 gallons. These materials are received all year long as they are needed; usually every few weeks.	These materials are used up in the water treatment process. They are not normally shipped from the site.	These materials are handled in the water treatment areas. There is no routine handling as the tanks containing these materials are piped directly into the process
Maintenance Chemicals	Chemicals used in equipment maintenance are stored in the Main Plant area and the Pipe Yard. Lubricating oil (for pumps engines, etc.) makes up the largest volume of material stored (an average of about 6,000 gallons). Other chemicals (e.g., antifreeze) are stored in much smaller quantities (less than 200 gallons) These materials are stored year round.	These products are received in at the Main Plant area and the Pipe Yard. The quantity received is typically around 500 gallons. These materials are received all year long as they are needed; usually every few weeks.	Waste materials (e.g., used motor oil) are shipped from the facility (primarily the Main Plant area and the Pipe Yard). Typical shipments are 500 gallons. These materials are typically shipped every few months.	These materials are handled in the areas where they are used. Typical quantity handled is less than 55 gallons per day. These materials are handled on a daily basis.

TABLE 3. POLLUTANT SOURCE SUMMARY AND BEST MANAGEMENT PRACTICES
PACIFIC COAST ENERGY COMPANY, LP - ORCUTT HILLS FACILITY
ORCUTT HILLS, CALIFORNIA

Industrial Activity	Area	Pollutant Source	Potential Pollutants	Best Management Practices
Crude oil and natural gas production	Well pads throughout facility	Crude oil, produced water	Oil and Grease	- Discharge prevention (berms around well pads). - Discharge prevention (using vacuum trucks to remove water from containment areas). - Erosion / sediment control (aggregate on well pads) - Seep cans to collect oil from natural seeps. - Preventive maintenance to minimize leaks. - Promptly clean up spills. - Properly dispose of waste materials. - Maintain spill control/cleanup material. - Good housekeeping. - Routine inspections (industrial areas are inspected at least twice a day). - Employee training.
Seep cans	Throughout facility	Crude oil	Oil and Grease	- Erosion / sediment control (aggregate and/or wood chips) - Preventive maintenance to minimize leaks. - Promptly clean up spills. - Properly dispose of waste materials. - Maintain spill control/cleanup material. - Good housekeeping. - Routine inspections (seep cans are inspected at least twice a day). - Employee training.
Crude Oil Separation, Storage, and Transfer to Pipelines	Four (4) tank facilities: - (1) Cal Coast Lease - (1) Pinal Fee - (2) Newlove Fee	Crude oil, produced water	Oil and Grease	- Discharge prevention (containment around tanks). - Discharge prevention (vacuum trucks are used to remove water from containment areas). - Preventive maintenance to minimize leaks. - Promptly clean up spills. - Properly dispose of waste materials. - Maintain spill control/cleanup material. - Good housekeeping. - Routine inspections (industrial areas are inspected at least twice a day). - Employee training.
Natural Gas Treatment and Transfer to Pipeline	Four (4) tank facilities: - (1) Cal Coast Lease - (1) Pinal Fee - (2) Newlove Fee	Natural gas	Oil and Grease	- Discharge prevention (enclosed process). - Preventive maintenance to minimize leaks. - Promptly clean up spills. - Properly dispose of waste materials. - Maintain spill control/cleanup material. - Good housekeeping. - Routine inspections (industrial areas are inspected at least twice a day). - Employee training.

TABLE 3. POLLUTANT SOURCE SUMMARY AND BEST MANAGEMENT PRACTICES
PACIFIC COAST ENERGY COMPANY, LP - ORCUTT HILLS FACILITY
ORCUTT HILLS, CALIFORNIA

Industrial Activity	Area	Pollutant Source	Potential Pollutants	Best Management Practices
Produced Water Storage and Injection	Four (4) tank facilities: - (1) Cal Coast Lease - (1) Pinal Fee - (2) Newlove Fee Injection Wells throughout facility	Produced water	Oil and Grease, pH	- Discharge prevention (containment around tanks). - Discharge prevention (berms around well pads). - Discharge prevention (using vacuum trucks to remove water from containment areas). - Preventive maintenance to minimize leaks. - Promptly clean up spills. - Properly dispose of waste materials. - Maintain spill control/cleanup material. - Good housekeeping. - Routine inspections (industrial areas are inspected at least twice a day). - Employee training.
Maintenance Activities	Throughout facility	Lubricating oils	Oil and Grease; pH	- Preventive maintenance to minimize leaks. - Promptly clean up spills. - Properly dispose of waste materials. - Maintain spill control/cleanup material. - Good housekeeping. - Employee training.
Unpaved Areas	Throughout facility	Natural soil	TSS	- Covering areas with aggregate or wood chips to minimize erosion. - Discharge prevention (containment around tanks). - Discharge prevention (berms around well pads). - Discharge prevention (using vacuum trucks to remove water from containment areas). - Routine inspections (industrial areas are inspected at least twice a day). - Employee training.
Landscape Watering	Landscaping in main plant area	[None identified]	[None identified]	- Aligning sprinkler heads to minimize overspray. - Keeping irrigation system in good working order. - Repairing irrigation system (e.g., replacing broken sprinkler heads) in a timely fashion. - Appling all pesticides, herbicides and fertilizers in accordance with the manufacturer's label. - Employee training.
Fire Suppression System Testing	Main Plant Area	[None identified]	[None identified]	- Not generating more water than is needed to test the system. - Employee training.

Note:
- TSS: Total Suspended Solids

Santa Barbara County

County of Santa Barbara
Planning and Development

Glenn S. Russell, Ph.D., Director

Dianne Black, Director of Development Services
Derek Johnson, Director of Long Range Planning

November 2, 2010

Phoenix Energy/Santa Maria Pacific
P.O. Box 7202
Santa Maria, CA 93456
Attn: Rich Field

RE: Resolution of Violation Case#10PTV-00000-00101, Careaga 3, 7980 Graciosa Rd., Santa Maria, CA 93455 APN# 101-020-074

Dear Mr. Field:

An annual inspection of the Careaga 3 well performed on September 29, 2010, revealed the well to be in violation of Santa Barbara County Petroleum Code, Chapter 25. The violation determined was:

1. **Emission Controls, Section 25-25:**
   Repair gas leak at wellhead.

A re-inspection of the above well was performed on October 8, 2010; during this inspection it was observed that the violation listed above has been abated. The Petroleum enforcement case is now closed.

Thank you for your cooperation in resolving this violation case to be in compliance with Santa Barbara County Petroleum Code, Chapter 25. Please contact me if you have any further questions regarding this case.

Respectfully,

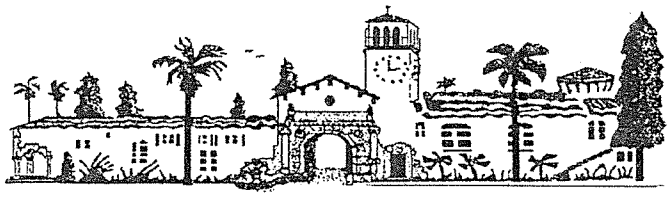
Pam McNulty, Petroleum Specialist
(805) 934-6204 Office
pmcnult@co.santa-barbara.ca.us

Cc: Jeff Thomas, Bldg Eng Insp Supv

Development Review
Building & Safety
Energy, Administration
123 E. Anapamu Street
Santa Barbara, CA 93101
Phone: (805) 568-2000
FAX: (805) 568-2030

Long Range Planning
30 E. Figueroa St, 2nd Floor
Santa Barbara, CA 93101
Phone: (805) 568-3380
FAX: (805) 568-2076

Development Review
Building & Safety
Agricultural Planning
624 W. Foster Road
Santa Maria, CA 93455
Phone: (805) 934-6250
FAX: (805) 934-6258



County of Santa Barbara
Planning and Development

Glenn S. Russell, Ph.D., Director
Dianne Black, Director of Development Services
Derek Johnson, Director of Long Range Planning

Notice of Violation

October 4, 2010

Phoenix Energy/Santa Maria Pacific
P.O. Box 7202
Santa Maria, CA 93456
Attn: Rich Field

RE: Violation Case#10PTV-00000-00101 Careaga 3- 7980 Graciosa Rd., Santa Maria, CA 93455
APN #: 101-020-074
Notice of Violation

Dear Mr. Field:

An Annual Inspection of the Careaga 3 well, performed on September 29, 2010 revealed the above mentioned location to be in violation of Santa Barbara County Petroleum Code, Chapter 25.

It is the purpose of the Santa Barbara County Petroleum Code, Chapter 25, among other things, to protect the health, safety, public welfare, physical environment and natural resources of the county by the reasonable regulation of onshore petroleum facilities and operations, including but not limited to: exploration; production; storage; processing; transportation; disposal; plugging and abandonment of wells; and of operations and equipment accessory and incidental thereto. Failure to comply with the requirements of Chapter 25 as noted on this Notice of Violation Letter will result in the issuance of a Notice of Determination of Fines for the following:

1. **Emission Controls, Section 25-25:** Repair gas leak at wellhead.

The violation(s) noted above must be corrected, re-inspected and approved by a County Petroleum Administrator within 30 days from receipt of this Notice of Violation. In accordance with Section 109.5 of the 2007 California Building Code, adopted by the County of Santa Barbara, you must notify the County Petroleum Administrator not less than twenty four (24) hours in advance when the work is ready for re-inspection.

Development Review
Building & Safety
Energy, Administration
123 E. Anapamu Street
Santa Barbara, CA 93101
Phone: (805) 568-2000
FAX: (805) 568-2030

Long Range Planning
30 E. Figueroa St, 2nd Floor
Santa Barbara, CA 93101
Phone: (805) 568-3380
FAX: (805) 568-2076

Development Review
Building & Safety
Agricultural Planning
624 W. Foster Road
Santa Maria, CA 93455
Phone: (805) 934-6250
FAX: (805) 934-6258

In the event the violation is not abated within 30 days from receipt of this Notice of Violation, you will receive a Notice of Determination of Fine and be subject to an administrative fine of up to $100.00 dollars per day from the day of receipt of this notice, for each noted violation. Therefore, non-compliance could result in total fines in excess of $3,000.00. No fine will be assessed if the violation is abated, re-inspected and approved by the Petroleum Unit within 30 days from receipt of this notice.

Prior to the expiration of the above referenced 30 day period, you may submit in writing any information relating to the determination of the existence of a violation or a request for an extension of the 30 day deadline. If it is determined that an effort is being made to correct the violation and that the extension request is reasonable, an additional period of time for correction of the violation may be granted at the Petroleum Administrator's discretion. However, if an additional period of time is granted to correct the violation you will be subject to fees and additional fines for each day the violation continues to exist should the violation remain unabated.

Pursuant to Santa Barbara County Code Chapter 25 Section 25-7. Fees; upon resolution of the condition of noncompliance that has been identified on the property, the costs to the county in obtaining compliance will be assessed to cover all time spent investigating and resolving the case. The current hourly rate in effect, as approved by the Board of Supervisors is $117.62 per hour for petroleum inspection staff. There is a possibility that you could be liable for fees for other County staff and contractors for enforcement and abatement of a violation. The payment to reimburse the cost of compliance is required **regardless** of any fines incurred pursuant to Santa Barbara County Code Chapter 24A.

Please contact me if you have any question regarding this Notice of Violation.

Failure to comply with this notice may result in but is not limited to any or all of the following actions:

- Transmittal of Notice of Determination of Fine;
- Recordation of Determination of Fine with the Santa Barbara County Recorder;
- Declaration of lien recorded against the property;
- Other actions for enforcement of a civil judgment.
- Stop Work Order

Thank you for your prompt attention. Please be advised that this notice only addresses violations of Chapter 25 of the County Code. You may be required to obtain other permits in order to comply with other portions of the County Code.

Respectfully,

Pam McNulty, Petroleum Specialist
(805) 934-6204 Office
pmcnult@co.santa-barbara.ca.us

Att: Affidavit-Hand Delivery
Cc: Jeff Thomas, Bldg Eng Insp Supv
Violation File

AUTHORITY: SANTA BARBARA COUNTY CODE §24A 1-9

Affidavit of Personal Service

Violation Case # 10PTV-00000-00101, 10PTV-00000-00102 & 10PTV-00000-00103 , 7980 Graciosa Rd., Santa Maria, CA 93455.

1. I served copies of the following: Notice of Violation(s)

2. Address where party was served: 2400 Professional Pkwy., Ste. 205 Santa Maria, CA 93454

3. I served the party:

    a. Personal service of documents referenced above, to: party shown on line **2.**

    b. Location of service: at the address shown on line **3.**

    c. Date of service: October 4, 2010

    d. Time of service:

4. Name of person who served documents: Pamela McNulty; County of Santa Barbara, Petroleum Specialist

I declare under penalty of perjury under the laws of the State of California that the forgoing is true and correct.

Pam McNulty

Pamela McNulty
Santa Barbara County, Petroleum Specialist

October 4, 2010
Date

Recipient: Rich Field

october 4, 2010
Date

McNulty, Pam

From: McNulty, Pam
Sent: Monday, October 04, 2010 1:49 PM
To: 'Richard Field'
Subject: Phoenix/SMP NOV's Careaga
Attachments: Careaga 3 NOV, 10-1-10.pdf; Careaga 29 NOV, 10-1-10.pdf; Careaga 50 NOV. 10-1-10.pdf

Hi Rich,

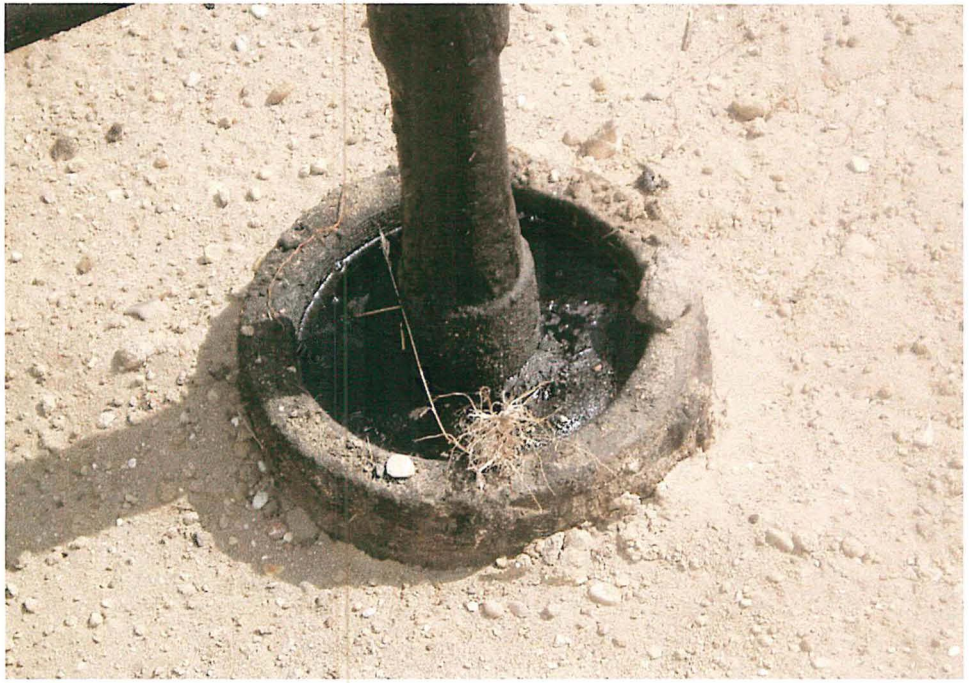
The attached NOV's are for your reference and record and will be hand delivered for your signature this afternoon.

Please contact me if you have any questions.

Best Regards,

Pamela McNulty, Petroleum Specialist
624 W. Foster Rd., Ste. B
Santa Maria, CA 93455
pmcnult@co.santa-barbara.ca.us
(805) 934-6204 office, (805) 896-9843 cell

(805)934-6286 fax
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Carega 3 9/29/10

Santa Barbara County
PUBLIC Health
DEPARTMENT

Environmental Health Services

225 Camino del Remedio ◆ Santa Barbara, CA 93110
805/681-4900 ◆ FAX 805/681-4901

2125 S. Centerpointe Pkwy. #333 ◆ Santa Maria, CA 93455-1340
805/346-8460 ◆ FAX 805/346-8485

Van Do-Reynoso, MPH, PhD *Director*
Suzanne Jacobson, CPA *Chief Financial Officer*
Paige Batson, MA, PHN, RN *Deputy Director*
Douglas Metz, DPM, MPH *Deputy Director*
Polly Baldwin, MD, MPH *Medical Director*
Henning Ansorg, M.D. *Health Officer*

Lawrence Fay *Director of Environmental Health*

NOTICE OF VIOLATION

November 22, 2019

VIA STANDARD MAIL

Santa Maria Energy, LLC
P.O. Box 7202
SANTA MARIA, CA 93456

Re: CERS ID # 10209703

Re: Failure to Submit Hazardous Material Business plan and /or updates for GITTE-TEN, LLC DBA PHOENIX ENERGY, 7980 SAN ANTONIO Rd E, SANTA MARIA, CA 93455

The Santa Barbara County Certified Unified Program Agency (CUPA) is the agency authorized to enforce the provisions of Chapter 6.95 of the California Health and Safety Code (H&SC) known as the Hazardous Materials Business Plan (HMBP) Program. Facilities subject to HMBP regulation are required to establish and implement emergency response and training plans, submit hazardous materials inventory, and a site map depicting the location of hazardous materials. H&SC Chapter 6.95, Section 25508.2 requires each regulated facility to review and certify the accuracy of the HMBP annually.

CUPA and State records indicate that this facility is subject to the HMBP Program and has not submitted an HMBP or has not annually certified their HMBP by reviewing previously submitted information and resubmitting. If you believe this letter was sent to your facility in error please contact the CUPA as soon as possible.

Any business that violates a HMBP provision of H&SC Chapter 6.95 can be civilly liable in an amount of not more than $2,000 for each day in which the violation occurs. After reasonable notice of the violation, civil penalties increase to $5,000 per violation, per day in which the violation occurs.

Failure to establish a Hazardous Material Business Plan; H&SC § 25507

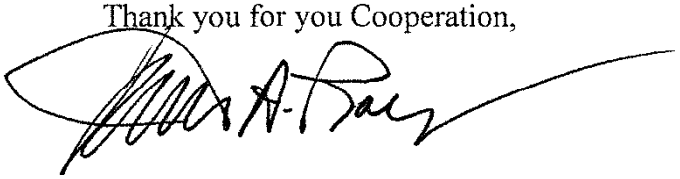
- A business that handles, at any one time during the reporting year, a hazardous material that has a quantity equal to, or greater than, 55 gallons for materials that are liquids, 500 pounds for solids, or 200 cubic feet for compressed gasses, shall establish and implement a business plan.

- Per Ch. 6.95, CA H&SC § 25505, the business plan shall contain emergency response and training plans, a hazardous materials inventory, and a site map depicting the location of hazardous materials. These elements are to be submitted via the California Environmental Reporting System (CERS), which is accessed at http://cers.calepa.ca.gov.

The Santa Barbara County CUPA reserves the right to issue an Administrative Enforcement Order or refer this matter to the Santa Barbara County District Attorney's office for review and prosecution of any or all violations. **You must make written notification to the Santa Barbara County CUPA certifying that all violations have been corrected before December 22, 2019.**

If you have any questions regarding this matter you may contact our Santa Maria or Santa Barbara office directly. Contact information is listed on the letterhead of this correspondence

Thank you for you Cooperation,



James A. Ray, REHS
Hazardous Materials Supervisor
Santa Barbara County CUPA

SANTA BARBARA COUNTY CERTIFIED UNIFIED PROGRAM AGENCY

☐ 225 Camino del Remedio, Santa Barbara, CA 93110 (805) 681-4900 Fax (805) 681-4901
☒ 2125 S. Centerpointe Pkwy., Rm 333, Santa Maria, CA 93455 (805) 346-8460 (805) 346-8485

Aboveground Petroleum Storage Act (APSA) Inspection Report / Notice to Comply

Facility Name: Santa Maria Energy – Careaga Lease Date: 10/12/2017
Site Address: 7980 San Antonio Rd. Phone #:
City: Santa Maria Inspected By: Aaron Gao
Facility Contact: Ian Marquardt CONSENT PROVIDED BY: Ian Marquardt

Purpose of Inspection: ☒ Routine ☐ Follow-Up ☐ New Permit ☐ Complaint ☐ Enforcement

Violation (V) classifications: Minor (M), Class II (2), Class 1 (1) (AUTHORITY HSC 25404)

Authority	V	1 2 M	Code of Federal Regulations (CFR) Title 40, Chapter 1, Subpart D, Part 112 California Health and Safety Code (HSC) Division 20, Chapter 6.67, Section 25270
SPCC Facility: ☐ Tier I ☐ Tier II ☐ Non-Qualified			
HSC §25270.6(b)	133		APSA Permit Fee Paid Valid
HSC §25270.6	410		Annual storage tank statement or HMBP submitted for storage tanks that exceed 10,000 gallons
HSC §25270.8	401		Spill(s) of one barrel (42 gallons) or more reported to Cal EMA and CUPA
HSC §25270.4.5(b)(1)	332		Daily visual inspections conducted/documented at SPCC-exempt farm, nursery or construction site
HSC §25270.4.5(a)	101		SPCC Plan prepared and implemented Yes
CFR §112.3(e)(1)	108		Copy of the SPCC maintained on site (unstaffed facilities exempt) Yes
CFR §112.7	102		SPCC Plan has written approval by management at appropriate level of authority Yes
CFR §112.3(d)	103		Professional Engineer (PE) has certified SPCC Plan for Non-Qualified (>10,000 gal) facility Yes
CFR §112.3(g)	135		Tier I/II facility meets capacity / discharge conditions
CFR §112.5(b)	109		5 year review of SPCC Plan performed and documented
CFR §112.5(a)	110		SPCC Plan amended within 6 months of change in facility design, construction, operation/maintenance
CFR §112.7(d)(1)	105		Spill Contingency Plan is complete (if claiming impracticability in lieu of secondary containment)
CFR §112.7(a)(3)	115		Facility diagram is complete, accurate and maintained with Plan (Tier I Qualified Plan exempt)
CFR §112.7(a)(3)(i)-(vi)	(116)	2	Facility description is complete and accurate
CFR §112.7(a)(4)	117		Discharge reporting procedures are accurate
CFR §112.7(a)(5)	118		Discharge cleanup procedures are complete and appropriate for facility
CFR §112.7(e)	121		Inspections & tests conducted & documented in accordance with written procedures
CFR §112.7(f)(1)	201		Training on the SPCC Plan, regulations, spill prevention & response documented for all oil handlers
CFR §112.7(f)(3)	123		Annual spill prevention briefings are conducted and documented
ALL Facilities			
CFR §112.7(c)	120		Secondary containment system will prevent discharge from escaping containment before cleanup occurs
CFR §112.7(g)	301		Access to oil handling and storage areas is controlled; drain valves are secured against unauthorized access
Onshore Facilities EXCLUDING Oil & Gas Production			
CFR §112.8(b)(2)	305		Drainage from diked areas is restrained by valves of manual, open-and-closed design
CFR §112.8(b)(1)	306		Rainwater within diked areas is inspected to ensure that its release will not cause a discharge
CFR §112.8(b)(3)-(4)	308		Undiked areas with potential for discharge are engineered to drain into catchment basins or oil diversion system
CFR §112.8(c)(2)	310		Secondary containment provided for capacity of largest single container plus freeboard for precipitation
CFR §112.8(c)(1)	312		Bulk container materials and construction are compatible with stored materials
CFR §112.8(c)(6)	314		Inspections and tests of bulk containers are conducted by qualified person
CFR §112.8(c)(5)	317		Corrosion protection is provided for partially buried or bunkered metallic tanks
CFR §112.8(c)(8)(i)-(iv)	319		Container installation is properly engineered with high liquid level alarms and shut-off devices
CFR §112.8(c)(11)	320		Mobile/portable oil storage containers positioned to prevent a discharge & provided with secondary containment* * Mobile refuelers and non-transportation-related tank trucks exempt from secondary containment requirement
CFR §112.8(d)(4)	326		Inspections of aboveground piping and valves are regularly documented
CFR §112.8(d)(2)	328		Not-in-service or standby piping is capped or blinded, and labelled as to origin
CFR §112.8(d)(5)	331		Vehicles are warned to prevent damage to aboveground piping

Facility Name: Santa Maria Energy - Careaga lease Date: 10/12/2017
Site Address: 7980 San Antonio Rd Page 2 of 2

HSC / CCR 22	V	1 2 M	REQUIREMENTS
Spill Prevention Control & Countermeasure (SPCC) Plan (HSC Chapter 6.67)			
25270.4.5	131		Valid SPCC, PE certified, petroleum storage ≥ 1320 gallons (1 or aggregate of AST)

AST Tank #	Tank Capacity	Contents	SPCC Required
			☐ Yes ☐ No
			☐ Yes ☐ No
			☐ Yes ☐ No
			☐ Yes ☐ No
			☐ Yes ☐ No

Accidental Release Prevention (Cal-ARP)			
2740.1(c)	21		Accurate Cal-ARP registration form submitted for all processes
2735.5 25545.3	22		Establish and implement a Risk Management Plan (RMP)

OBSERVATIONS / CORRECTIVE ACTION

On site today to conduct a hazardous materials (HMM)

(19) Failed to provide employee training records at time of inspection. Employee training records must be implemented and documented. provide CUPA with training records in 30 days.

(07) Failed to submit business plan on CERS for annual certification. Last business plan submittal was on 3/2/2015. & Business plan must be annually certified. Re-submit business plan within 30 days on CERS.

(02) Failed to report diesel generator (about 200 gal)
Two 55 gal drums of mineral spirits.
Two 55 gal drums of compressor oil.
Reported inventory must be current.
Update inventory on CERS.

☐ No Violations Noted At Time of Inspection

Signature of Responsible Party: [signature] Print Name: IAN MARQUARDT Date: 10/12/17

☒ **NOTICE OF VIOLATION: The violations noted above must be corrected by:** Date: 10/12/17

POST INSPECTION INSTRUCTIONS:

The marked items represent violations of the California Health and Safety Code and California Code of Regulations. A re-inspection may occur at any time on or after the compliance deadline to verify correction of violations. **ALL VIOLATIONS ARE TO BE CORRECTED AND A COPY OF THIS FORM SIGNED AND RETURNED WITHIN 35 DAYS**, certifying the correction of these violations. Failure to correct violations by the compliance deadline will result in further enforcement action, including, but not limited to, a re-inspection fee, fines and/or suspension or revocation of your Unified Program Facility Permit.

COMPLIANCE CERTIFICATION: As the owner / operator of the above subject business, I certify that all the violations cited above have been corrected.

(Signature) [signature] (Print Name) IAN MARQUARDT (Date) 11/15/2017

SANTA BARBARA COUNTY CERTIFIED UNIFIED PROGRAM AGENCY

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Aboveground Petroleum Storage Act (APSA) Inspection Report / Notice to Comply

Facility Name: Santa Maria Energy - Careaga Lease Date: 10/12/2017

Site Address: 7980 San Antonio Rd. Phone #:

City: Santa Maria Inspected By: Aaron Gao

Facility Contact: Ian Marquardt CONSENT PROVIDED BY: Ian Marquardt

Purpose of Inspection: ☒ Routine ☐ Follow-Up ☐ New Permit ☐ Complaint ☐ Enforcement

Violation (V) classifications: Minor (**M**), Class II (**2**), Class 1 (**1**) (AUTHORITY HSC 25404)

Authority	V	1 2 M	Code of Federal Regulations (CFR) Title 40, Chapter 1, Subpart D, Part 112 California Health and Safety Code (HSC) Division 20, Chapter 6.67, Section 25270
			SPCC Facility: ☐ Tier I ☐ Tier II ☐ Non-Qualified
HSC §25270.6(b)	133		**APSA Permit Fee Paid** Valid
HSC §25270.6	410		**Annual storage tank statement or HMBP submitted for storage tanks that exceed 10,000 gallons**
HSC §25270.8	401		**Spill(s) of one barrel (42 gallons) or more reported to Cal EMA and CUPA**
HSC §25270.4.5(b)(1)	332		**Daily visual inspections conducted/documented at SPCC-exempt farm, nursery or construction site**
HSC §25270.4.5(a)	101		**SPCC Plan prepared and implemented** Yes
CFR §112.3(e)(1)	108		**Copy of the SPCC maintained on site (unstaffed facilities exempt)** Yes
CFR §112.7	102		**SPCC Plan has written approval by management at appropriate level of authority** Yes
CFR §112.3(d)	103		**Professional Engineer (PE) has certified SPCC Plan for Non-Qualified (>10,000 gal) facility** Yes
CFR §112.3(g)	135		**Tier I/II facility meets capacity / discharge conditions**
CFR §112.5(b)	109		**5 year review of SPCC Plan performed and documented**
CFR §112.5(a)	110		**SPCC Plan amended within 6 months of change in facility design, construction, operation/maintenance**
CFR §112.7(d)(1)	105		**Spill Contingency Plan is complete (if claiming impracticability in lieu of secondary containment)**
CFR §112.7(a)(3)	115		**Facility diagram is complete, accurate and maintained with Plan (Tier I Qualified Plan exempt)**
CFR §112.7(a)(3)(i)-(vi)	(116)	2	**Facility description is complete and accurate**
CFR §112.7(a)(4)	117		**Discharge reporting procedures are accurate**
CFR §112.7(a)(5)	118		**Discharge cleanup procedures are complete and appropriate for facility**
CFR §112.7(e)	121		**Inspections & tests conducted & documented in accordance with written procedures**
CFR §112.7(f)(1)	201		**Training on the SPCC Plan, regulations, spill prevention & response documented for all oil handlers**
CFR §112.7(f)(3)	123		**Annual spill prevention briefings are conducted and documented**
			ALL Facilities
CFR §112.7(c)	120		**Secondary containment system will prevent discharge from escaping containment before cleanup occurs**
CFR §112.7(g)	301		**Access to oil handling and storage areas is controlled; drain valves are secured against unauthorized access**
			Onshore Facilities EXCLUDING Oil & Gas Production
CFR §112.8(b)(2)	305		**Drainage from diked areas is restrained by valves of manual, open-and-closed design**
CFR §112.8(b)(1)	306		**Rainwater within diked areas is inspected to ensure that its release will not cause a discharge**
CFR §112.8(b)(3)-(4)	308		**Undiked areas with potential for discharge are engineered to drain into catchment basins or oil diversion system**
CFR §112.8(c)(2)	310		**Secondary containment provided for capacity of largest single container plus freeboard for precipitation**
CFR §112.8(c)(1)	312		**Bulk container materials and construction are compatible with stored materials**
CFR §112.8(c)(6)	314		**Inspections and tests of bulk containers are conducted by qualified person**
CFR §112.8(c)(5)	317		**Corrosion protection is provided for partially buried or bunkered metallic tanks**
CFR §112.8(c)(8)(i)-(iv)	319		**Container installation is properly engineered with high liquid level alarms and shut-off devices**
CFR §112.8(c)(11)	320		**Mobile/portable oil storage containers positioned to prevent a discharge & provided with secondary containment*** * Mobile refuelers and non-transportation-related tank trucks exempt from secondary containment requirement
CFR §112.8(d)(4)	326		**Inspections of aboveground piping and valves are regularly documented**
CFR §112.8(d)(2)	328		**Not-in-service or standby piping is capped or blinded, and labelled as to origin**
CFR §112.8(d)(5)	331		**Vehicles are warned to prevent damage to aboveground piping**

Aboveground Petroleum Storage Act (APSA) Inspection Report / Notice to Comply

Facility Name: Santa Maria Energy - Careaga Lease Date: 10/12/2017
Site Address: 7980 San Antonio Rd.

OBSERVATIONS / CORRECTIVE ACTION:

On site today to conduct an APSA inspection.

SPCC plan prepared and implemented with PE certification.
SPCC plan last reviewed in 2014.

Inspection records are available on site (daily, weekly & annually).
SPCC training records can not be located during time of inspection

(16) Failed to report the following oil containers on SPCC plan.
- Gear lubricant in 55 gal drums (275 gal total)
- Asphaltine Inhibitor one 250 gal, one 300 gal containers
- Demulsifier one 250 gal, one 300 gal containers
- hydraulic oil in 55 gal drum (275 gal total)
- Diesel generator about 200 gal
- Two 55 gal drums of mineral spirits (110 gal total)
- Two 55 gal drums of compressor oil (110 gal total)

facility description must be complete and accurate.
Update SPCC plan.

Total APSA regulated petroleum product on site = 2070 gal.
Business is a Tier I SPCC facility.

☐ No Violations Noted At Time of Inspection

Signature of Responsible Party: _____ Print Name: IAN MARQUARDT Date: 10/12/17

☒ **NOTICE OF VIOLATION: The violations noted above must be corrected by:** Date: 11/12/2017

POST INSPECTION INSTRUCTIONS:

The marked items represent violations of the California Health and Safety Code (HSC) and California Code of Regulations. A re-inspection may occur at any time on or after the compliance deadline to verify correction of violations. **All violations are to be corrected and a copy of this form signed and returned within 35 days**, certifying the correction of these violations (HSC 25404.1.2.). Failure to correct violations by the compliance deadline will result in further enforcement action, including, but not limited to, a re-inspection fee, fines and/or suspension or revocation of your Unified Program Facility Permit.

COMPLIANCE CERTIFICATION: As the owner / operator of the above subject business, I certify that all the violations cited above have been corrected.

(Signature) _____ (Print Name) _____ (Date) _____

SANTA BARBARA COUNTY
CERTIFIED UNIFIED PROGRAM AGENCY

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■ 2125 S. Centerpointe Pkwy., Rm 333, Santa Maria, CA 93455 | (805) 346-8460 | Fax (805) 346-8485

ABOVEGROUND PETROLEUM STORAGE ACT NON-QUALIFED FACILITY INSPECTION REPORT

NOTICE TO COMPLY / NOTICE OF VIOLATION

Facility Name: Santa Maria Energy LLC
Site Address: 7980 San Antonio Rd, E
City: Santa Maria
Facility Contact: Laurie Tamura
Consent Provided By: Ian Marquardt Title: Ops Manager

Date: 08/04/2020
CERS ID: 10209703
Inspected by: Greg Berends
(Signature):
For: ☐ Photos ☐ Sampling ■ Document Review

Purpose of Inspection: ■ Routine ☐ Follow-Up ☐ New Permit ☐ Complaint ☐ Enforcement

Violation Classifications: Minor (**M**), Class II (**2**), Class I (**1**) *(Authority: HSC 25404)*

All Code of Federal Regulations, Title 40, Part 112.1 – 112.8 (40 CFR 112 - SPCC) violations are incorporated by reference via H&SC, Ch. 6.67, 25270.4.5

Violation #	1 2 M	Violation Description
Aboveground Petroleum Storage Act (APSA)		
H088		APSA program fee paid. HSC 6.67 25270.6(b)
H092		Failure to acquire a CUPA Permit. Local Ordinance 18C-35, 18C-45, 18C-46
H086		Tank Facility Statement or Business Plan has been submitted. HSC 6.67 25270.6(a)(1), 25270.6(a)(2)
H087		Spills/releases of 42 gallons or more of petroleum reported upon discovery to Cal OES & UPA or 911. HSC 6.67 25270.8
Spill Prevention Control and Countermeasure (SPCC)		
H089		All/any permanently closed tanks are properly closed under the definition in 40 CFR 112.2. 40 CFR 112.1(b)(3), 112.2
H002		Spill Prevention Control and Countermeasure (SPCC) Plan has been prepared that meets all applicable requirements. 40 CFR 112.3,112.6
H003		SPCC plan has been implemented. 40 CFR 112.3
H004		SPCC plan onsite If facility staffed 4 hrs/day, or at the nearest field office if not so attended. 40 CFR 112.3(e)(1)
H005		Professional Engineer (P.E.) has properly reviewed and certified the SPCC Plan. 40 CFR 112.3(d)
H006		P.E. made all required attestations in the SPCC Plan. 40 CFR 112.3(d)(1)
H009		Facility has amended SPCC plan as necessary. 40 CFR 112.5(a), 112.5(b)
H010		SPCC plan has been implemented within 6 months of amendment. 40 CFR 112.5(a), 112.5(b)
H011		Technical amendment(s) were certified by a licensed P.E. 40 CFR 112.5(c)
H014		5 year review performed on SPCC plan and documented. 40 CFR 112.5(b)
H015		SPCC plan discusses conformance with all rule requirements, and state rules and regs. 40 CFR 112.7(a)(1), 112.7(j)
(H016)	M	SPCC plan in writing; follows code sequence, or cross reference provided. Follows good engineering practice, has management approval, has discussion of items not yet in place in separate paragraphs. 40 CFR 112.7
H017		Environmental Equivalence, if claimed, is addressed in SPCC plan, other than for secondary containment. 40 CFR 112.7(a)(2)
H019		Physical layout of the facility is adequately and accurately described in SPCC plan. 40 CFR 112.7(a)(3)
H022		SPCC plan contains an adequate facility diagram. 40 CFR 1 112.7(a)(3)
(H021)	M	SPCC plan addresses the type of oil and storage capacity for all fixed and portable containers. 40 CFR 112.7(a)(3)(i)
H023		SPCC plan adequately addresses discharge prevention measures for routine handling, loading/unloading. 40 CFR 112.7(a)(3)(ii)
H024		SPCC plan addressed countermeasures for discharge discovery, response and cleanup. 40 CFR 112.7(a)(3)(iv)
H025		SPCC plan addresses disposal methods for recovered materials. 40 CFR 112.7(a)(3)(v)
H026		SPCC plan contains procedures for reporting a discharge. 40 CFR 112.7(a)(3)(vi); 112.7(a)(4)
H027		SPCC plan organized so discharge procedures are readily usable if the facility has no response plan. 40 CFR 112.7(a)(5)
H028		SPCC plan predicts direction, rate of flow, total quantity of oil that could be released from a discharge. 40 CFR 1 112.7(b)
H029		SPCC plan contains a prediction of direction and total quantity of oil potentially discharged. 40 CFR 112.6(a)(3)(i)
H030		Impracticability of containment/diversionary items, if claimed, is P.E. demonstrated and certified. 40 CFR 112.7(d)
H031		SPCC plan addresses the appropriate general containment/diversionary structures/equipment. 40 CFR 112.7(c)
H032		Appropriate general containment/diversionary structures/equipment have been provided. 40 CFR 112.7(c)
H033		Periodic integrity/leak testing performed with impracticability claim. 40 CFR 112.7(d)
H034		If claiming impracticability of containment/diversionary items a contingency plan has been included. 40 CFR 112.7(d)(1)
H035		If claiming impracticability written commitment of manpower, equipment, and materials provided. 40 CFR 112.7(d)(2)
H036		Employee training and spill prevention briefings discussed in SPCC plan. 40 CFR 112.7(f)(1), 112.7(f)(3)
H037		Training provided for operation and maintenance of equipment, discharge procedures, laws/regulations, general facility operations, and content of SPCC. 40 CFR 112.7(f)(1)
H038		Person has been designated as accountable for discharge prevention and reports to management. 40 CFR 112.7(f)(2)

Violation #	1 2 M	Violation Description
H108		Spill prevention briefings are conducted annually. 40 CFR112.7(f)(3)
H040		SPCC plan adequately discusses facility tank car and tank truck loading/unloading rack. 40 CFR 112.7(h)
H041		Documented evaluation of field-constructed tanks for risk of discharge due to brittle fracture. 40 CFR 112.7(i)
H042		SPCC plan addresses security measures-lighting, access to handling/storage, valves/pumps/transfer equipment. 40 CFR 112.7(g)
H043		Handling areas, valves, pumps/starter controls, load/unload connections secured, lighting adequate. 40 CFR 1 112.7(g)
H044		Loading rack containment has capacity to contain single largest compartment of tank car/truck. 40 CFR 112.7(h)(1)
H045		Brittle fracture evaluation of field-constructed aboveground tanks performed. 40 CFR 112.7(i)
H046		Vehicular departure warning system in place at facility with a loading/unloading rack. 40 CFR 112.7(h)(2)
H047		Oil filled operational equipment containment standards are met. 40 CFR 112.7(k)
H048		Facility drainage or drainage controls adequately discussed. 40 CFR 112.7(a)(3)(iii); 112.8(b)
H049		Facility drainage adequately restrained unless conditions met. 40 CFR 112.8(b)(1)
H050		Valves used for drainage are manual (not flapper-type) to prevent a discharge. 40 CFR 112.8(b)(2)
H051		Drainage from un-diked areas or diversion systems designed to retain final discharge in facility. 40 CFR 112.8(b)(3), 112.8(b)(4)
H052		Lift pumps provided for treated drainage waters when more than one treatment unit. 40 CFR 112.8(b)(5)
H053		Adequate discussion of all bulk storage containers located at the facility. 40 CFR 112.8(c)
H054		Material and construction of all containers are compatible with the material stored. 40 CFR 112.8(c)(1)
H055		Adequately sized secondary containment provided and maintained for bulk storage containers. 40 CFR 112.8(c)(2)
H057		Containment systems are sufficiently impervious to contain oil. 40 CFR 112.8(c)(2)
H058		Records maintained of drainage from diked areas. 40 CFR 112.8(c)(3)(iv)
H059		Buried section of partially buried or bunkered metallic tank has corrosion protection. 40 CFR 112.8(c)(5)
H062		Rainwater in diked areas is inspected before draining. 40 CFR 112.8(c)(3)(i), 112.8(c)(3)(ii), 112.8(c)(3)(iii)
H063		SPCC plan discusses procedures to test/inspect storage containers for integrity per industry standards. 40 CFR 112.8(c)(6)
H064		Tanks inspected and tested by qualified person in accordance with industry standards. 40 CFR 112.8(c)(6)
H065		Inspection/integrity testing records signed, kept for 3 years and written inspection procedures kept. 40 CFR 112.7(e), 112.8(c)(6)
H066		Steam return/exhaust lines that discharge to watercourse are monitored or have treatment system. 40 CFR 112.8(c)(7)
H067		Aboveground containers tested or inspected for integrity based on industry standards. 40 CFR 112.8(c)(6)
H068		SPCC plan adequately describes overfill prevention methods, and devices/systems used for each container. 40 CFR 112.8(c)(8)
H071		Liquid level sensing devices regularly tested to ensure proper operation. 40 CFR 1 112.8(c)(8)(v)
H072		Discharge from effluent treatment facilities which discharge to navigable waterways observed. 40 CFR 112.8(c)(9)
H073		Each container installation has a liquid level sensing device. 40 CFR 1 112.8(c)(8), 112.8(c)(8)(i), 112.8(c)(8)(ii), 112.8(c)(8)(iii), 112.8(c)(8)(iv)
H074		Visible discharges promptly corrected and any accumulation of oil in diked areas promptly removed. 40 CFR 112.8(c)(10)
H075		Adequate secondary containment provided for mobile/portable storage containers. 40 CFR 112.8(c)(11)
H076		Buried piping is inspected for deterioration if exposed and repaired if corrosion damage is found. 40 CFR 112.8(d)(1)
H077		Buried piping is corrosion protected with protective wrapping, coating, or cathodic protection. 40 CFR 112.8(d)(1)
H078		Terminal connection capped/blank flanged at transfer point & origin marked if not in service/standby. 40 CFR 112.8(d)(2)
H079		Pipe supports designed to minimize abrasion and corrosion, and allow for expansion and contraction. 40 CFR 112.8(d)(3)
H080		Aboveground valves, piping, and appurtenances are regularly inspected. 40 CFR 112.8(d)(4)
H081		Integrity/leak tested buried piping when installed, modified, constructed, relocated, or replaced. 40 CFR 112.8(d)(4)
H082		Vehicle traffic warned of aboveground piping or other oil transfer operations. 40 CFR 112.8(d)(5)
H083		Oil filled electrical equipment exclusions have been met, and where not met is included in SPCC plan. HSC 6.67 25270.2(a)(4)
H090		Substantial Harm Criteria certification maintained at the facility as required. 40 CFR 112.20(e)
H099		Mobile/portable storage containers positioned to prevent a discharge as described in 40 CFR 112.1(b). 40 CFR 112.8(c)(11)
H0100		Lower-most drains and all outlets on tank cars or tank trucks inspected prior to filling and departure. 40 CFR 112.7(h)(3)

OBSERVATIONS / CORRECTIVE ACTION

On-site to conduct an Aboveground Petroleum Storage inspection this day.

Facility is an oil production lease with crude oil storage tanks. Two of the storage tanks, Stock Tank #1 and Shipping Tank #TK403, are not directly involved in the production process and instead store crude oil prior to offloading to tanker trucks. As a result, these tanks are considered "storage" tanks for the purposes of APSA applicability, rather than being considered production-related.
Each tank is 1,000 bbls (42,000 gallons) in size. The facility has two of these "storage" tanks in addition to smaller containers and tanks (ranging from 55 to 250 gallons in capacity).
As a result, the facility has over 10,000 gallons of aboveground petroleum storage on-site, the facility is subject to Non-Qualified SPCC Plan requirements.
SPCC plan certified by Clay Bradfield (#C47085, Exp. 12/13/2017).
Substantial Harm Criteria approved by Engineer Ercan Candan (May 2014).
All petroleum storage tanks have sized secondary containment plus sufficient freeboard. Berms and secondary containment are also approved by County Planning & Development and DOGGR.
During oil transfer operations from the loading rack into the tanker truck, an employee connects all hoses and supervises the initial loading. Only employees are authorized to commence oil loading operations.

At the time of the inspection, the following violations were observed:

H021 - SPCC plan does not address all aboveground petroleum containers / tanks
Observations - Under Section 2.2 (Facility Layout), the SPCC plan only addresses the bulk storage tanks in the tank battery. The following petroleum storage tanks were missing from the SPCC plan: gear lubricant (250 gal tank), diesel fuel (200 gal tank), & compressor oil (7 x 55 gal drums and one 200 gal tank) (note: while the above petroleum was not included, inspections of the storage areas are regularly conducted).
Corrective Action - Update Section 2.2 to include all aboveground petroleum storage containers 55 gallons or more in capacity.

H016 - SPCC plan not signed by Management
Observation - The SPCC plan had a signature box for the facility's management representative. The signature box was left blank and thus does not have written management approval.
Corrective Action - Ensure management signs and approves the SPCC plan

Once corrections have been made, sign the Compliance Certification on Page 3, and e-mail a signed copy of Page 3 to Gregory.Berends@sbcphd.org.

☐ No Violations Noted at Time of Inspection ■ NOTICE TO COMPLY (Minor Violations) ☐ NOTICE OF VIOLATION (Class I & II)

The marked items represent violations of the California Health and Safety Code, Chapter 6.67 (6.67 Cal. H&SC). A re-inspection may occur at any time on or after the compliance deadline to verify correction of violations. Failure to correct violations by the compliance deadline will result in further enforcement action, including, but not limited to, re-inspection fee, fines, formal enforcement and/or suspension or revocation of your Unified Program Facility Permit. **All violations are to be corrected and a copy of this form and accompanying requested documentation, signed and returned within 35 days,** certifying the correction of these violations.

Signature of Responsible Party: _____ Print Name: _____ Date: _____

The violations noted above must be corrected by: 09/04/2020

Compliance Certification: As the owner/operator of the above subject business, I certify that all of the violations cited above have been corrected.

Signature	Print Name	Date
_____	_____	_____

OBSERVATIONS / CORRECTIVE ACTION

On-site to conduct an Aboveground Petroleum Storage inspection this day.

Facility is an oil production lease with crude oil storage tanks. Two of the storage tanks, Stock Tank #1 and Shipping Tank #TK403, are not directly involved in the production process and instead store crude oil prior to offloading to tanker trucks. As a result, these tanks are considered "storage" tanks for the purposes of APSA applicability, rather than being considered production-related.
Each tank is 1,000 bbls (42,000 gallons) in size. The facility has two of these "storage" tanks in addition to smaller containers and tanks (ranging from 55 to 250 gallons in capacity).
As a result, the facility has over 10,000 gallons of aboveground petroleum storage on-site, the facility is subject to Non-Qualified SPCC Plan requirements.
SPCC plan certified by Clay Bradfield (#C47085, Exp. 12/13/2017).
Substantial Harm Criteria approved by Engineer Ercan Candan (May 2014).
All petroleum storage tanks have sized secondary containment plus sufficient freeboard. Berms and secondary containment are also approved by County Planning & Development and DOGGR.
During oil transfer operations from the loading rack into the tanker truck, an employee connects all hoses and supervises the initial loading. Only employees are authorized to commence oil loading operations.

At the time of the inspection, the following violations were observed:

H021 - SPCC plan does not address all aboveground petroleum containers / tanks
Observations - Under Section 2.2 (Facility Layout), the SPCC plan only addresses the bulk storage tanks in the tank battery. The following petroleum storage tanks were missing from the SPCC plan: gear lubricant (250 gal tank), diesel fuel (200 gal tank), & compressor oil (7 x 55 gal drums and one 200 gal tank) (note: while the above petroleum was not included, inspections of the storage areas are regularly conducted).
Corrective Action - Update Section 2.2 to include all aboveground petroleum storage containers 55 gallons or more in capacity.

H016 - SPCC plan not signed by Management
Observation - The SPCC plan had a signature box for the facility's management representative. The signature box was left blank and thus does not have written management approval.
Corrective Action - Ensure management signs and approves the SPCC plan

Once corrections have been made, sign the Compliance Certification on Page 3, and e-mail a signed copy of Page 3 to Gregory.Berends@sbcphd.org.

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Signature of Responsible Party: _____ Print Name: Ian Marquardt Date: 9/4/2020

The violations noted above must be corrected by: 09/04/2020

Compliance Certification: As the owner/operator of the above subject business, I certify that all of the violations cited above have been corrected.

_____ Ramon Elias 9/4/2020

Signature Print Name Date

SANTA BARBARA COUNTY
CERTIFIED UNIFIED PROGRAM AGENCY

☐ 225 Camino del Remedio, Santa Barbara, CA 93110 | (805) 681-4900 | Fax (805) 681-4901
☒ 2125 S. Centerpointe Pkwy., Rm 333, Santa Maria, CA 93455 | (805) 346-8460 | Fax (805) 346-8485

BUSINESS PLAN – INSPECTION REPORT

NOTICE TO COMPLY / NOTICE OF VIOLATION

Facility Name: Santa Maria Energy LLC
Site Address: 7980 San Antonio Rd, E
City: Santa Maria
Facility Contact: Laurie Tamura
Consent Provided By: Ian Marquardt Title: Ops Manager

Date: 08/04/2020
CERS ID: 10209703
Inspected by: Greg Berends
(Signature):
For: ☐ Photos ☐ Sampling ☒ Document Review

Purpose of Inspection: ☒ Routine ☐ Follow-Up ☐ New Permit ☐ Complaint ☐ Enforcement

Violation Classifications: Minor (**M**), Class II (**2**), Class I (**1**) *(Authority: HSC 25404)*

Violation #	1 2 M	Violation Description
H001		Failure to establish and implement a business plan when storing hazardous materials at or above the reportable threshold quantities. HSC 6.95 25507 (1010001)
H002		Failure to complete and electronically submit a business plan when handling hazardous materials at or above the reportable threshold quantities. HSC 6.95 25505, 25508(a)(1) (1010002)
H003		Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training. HSC 6.95 25505(c) (1010017)
(H004)	M	Failure to annually review and electronically submit the business plan on or before the annual due date and certify that it is complete, accurate, and in compliance with EPCRA. HSC 6.95 25508(a)(1), 25508.2 (1010008) Date of last CERS inventory submittal: 12/31/2019 Accepted? ☒ Yes ☐ No
H005		Failure to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions. HSC 6.95 25505.1 (1010011)
H008		Failure to update business plan within 30 days when one of the following occurs: A 100% or more increase in the quantity of a previously disclosed material; Any handling of a previously undisclosed hazardous material; 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. HSC 6.95 25508.1(a),(f) (1010006)
H009		**Failure to report a release or threatened release of a hazardous material to the unified program agency and Cal OES. HSC 6.95 25510(a); 19 CCR, Article 2** (1040001)
H010		Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. 19 CCR 2652(a)(1); HSC 6.95 25508(a)(1) (1010003)
H011		Failure to complete and electronically submit hazardous material inventory forms information for all reportable hazardous materials on site at or above reportable quantities. HSC 6.95 25506, 25505(a)(1), 25508(a)(1) (1010004)
H012		Failure to complete and electronically submit a site map with all required content. HSC 25505(a)(2), 25508(a)(1) (1010005)
H014		Failure to establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material. HSC 6.95 25505(a)(3), 25508(a)(1); 19 CCR 2658 (1010010)
H015		Failure to establish and electronically submit an adequate training program, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled. HSC 6.95 25505(a)(4), 25508(a)(1) (1020001)
H016		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. HSC 6.95 25505(a)(4) (1020002)
H025		Failure to acquire a CUPA permit. County Ordinance 18C-35, 18C-41, 18C-46 (1015)

OBSERVATIONS / CORRECTIVE ACTION:

On-site to conduct a Hazardous Materials inspection this day.

Daily safety meetings conducted.
At the time of the inspection, facility provided an updated inventory (needs to be updated on CERS). However, updated inventory is missing a 200 gal compressor oil tank located near at the gas plant.
SDS for chemicals are located at each storage area and the main office.

At the time of the inspection, the following violations were observed:

H004 - Business Plan not annually submitted
Observations - The HMBP was last submitted to CERS on 12/31/2019. However, the Emergency Response / Contingency Plan section was last submitted on 11/15/2017.
Corrective Action - Once the inventory has been corrected, submit the full HMBP to CERS. Ensure the HMBP is submitted to CERS annually.

H024 - Corrections to Business Plan not made within 30 days of notification per H&SC 25508(a)(3)
Observations - On 12/19/2019, the CUPA reviewed the HMBP for the facility. As the Emergency Response section had not been annually submitted, the CUPA did not accept the Facility Information section. The facility was directed to resubmit the Emergency Response section. On 12/31/2019, the CUPA again reviewed and did not accept the Facility Information section for the same reason as stated previously.
Corrective Action - If the CUPA determines a portion(s) of the Business Plan are deficient from satisfying the requirements of Ch. 6.95 of the CA Health & Safety Code, the facility shall submit a corrected Business Plan to CERS within 30 days of notice. Make the required corrections, and ensure the full Business Plan is annually submitted to CERS.

*Note: a minor leak was observed in the 100 gal boiler water treatment's secondary containment (located at the Water Plant). Ensure the pump is promptly repaired and the leak cleaned up properly.

Once the violations have been corrected, sign the Compliance Certification at the bottom of Page 2, and e-mail a signed copy of Page 2 to Gregory.Berends@sbcphd.org.

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Signature of Responsible Party: _____ Print Name: _____ Date: _____

The violations noted above must be corrected by: 09/04/2020

Compliance Certification: As the owner/operator of the above subject business, I certify that all of the violations cited above have been corrected.

Signature	Print Name	Date

OBSERVATIONS / CORRECTIVE ACTION:

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Signature of Responsible Party: _____ Print Name: Ian Marquardt Date: 9/4/2020

The violations noted above must be corrected by: 09/04/2020

Compliance Certification: As the owner/operator of the above subject business, I certify that all of the violations cited above have been corrected.

Signature	Print Name	Date
_____	Ramon Elias	9/4/2020

Table 2-2. Sized Tank Containment

Tank Designation	Tank Function	Nominal Tank Capacity (bbl)	Tank Diameter (ft)	Tank Height (ft)	Calc'd Tank Capacity (bbl)	Gross Dike Capacity (bbl)	Net Dike Capacity (bbl)	Largest Tank (bbl)	Comment
Tank 4064	Wash Tank	1,500	21.50	24.1	1,557	3,481	2,600	1,987	Contained
Tank 4171	Wastewater	2,000	29.72	16.1	1,987				
Tank 4337	Stock Tank 2	1,000	21.50	16.1	1,040				
Tank 4103	Stock Tank 1	1,000	21.50	16.1	1,040				
Tank 400	Wash Tank	1,000	15.39	30.0	994				
Tank 401	Wastewater	1,000	21.50	16.1	1,040				
Tank 402	Reject Tank	1,000	21.50	16.1	1,040				
Tank 403	Shipping Tank	1,000	21.50	16.1	1,040				

Table 2-2A Other Supporting Petroleum/Oil Containers

Gear Lubricant	Gas Plant	250 gallons	10	10	250 gallons				Contained within existing berms
Diesel Fuel	Tank Battery	200 gallons	10	10	250 gallons				
Compressor OI	Gas Plant Tank Battery	7x55 gallons	3	4	55-gallon drums				

SANTA BARBARA COUNTY FIRE DEPARTMENT

FIRE PREVENTION DIVISION
HAZARDOUS MATERIALS UNIT
195 West Highway 246 #102, Buellton, CA 93427
(805) 686-8167

2006 Annual Business Plan Certification

Owner: OW0006746

PHOENIX ENERGY INC
2275 CORBETT CYN RD
SAN LUIS OBISPO CA 93401

Attn: BRUCE FALKENHAGEN

Facility: **FA0010327**

PEI - CAREAGA LEASE
7980 GRACIOSA Rd
SANTA MARIA

2162 01
PR0500378
S22

Date of Last Inventory Certification Received: 7/11/2005

Contacts	Name	Title	Business	24 Hour	Pager / Cell
Primary	DOUG CHANDLER	SUPERINTENDENT / OPERATOR	~~8059972187~~	8053313341	8053313341
Secondary	BRUCE FALKENHAGEN	MANAGER	8055442153	8055941199	8057482045

I certify that:

- ☐ The information contained in the hazardous materials inventory most recently submitted to the CUPA is complete, accurate, and up-to-date.
- ☐ There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory.
- ☐ No hazardous materials subject to inventory requirements are being handled that are not listed on the most recently submitted inventory.
- ☒ The inventory has changed; please see attached inventory revisions, deletions and/or additions. Just updated pages shown

I certify that:

- ☒ The Emergency Response Plan and Training Plan most recently submitted to the CUPA is complete, accurate and up-to-date.
- ☐ The Emergency Response Plan and Training Plan have changed; please see attached revised plan(s).
- ☒ Primary / Secondary Contact Names listed above have changed as indicated below.

Signed: E. Alp Bruce Falkenhagen
PHONE "X"

Title: Manager

Date: 7/13/06

Primary	EMERGENCY CONTACTS	Secondary
NAME: (26)		NAME: (31)
TITLE: (27)		TITLE: (32)
BUSINESS PHONE: (28)	(805) 331-3341	BUSINESS PHONE: (33)
24-HOUR PHONE: (29)		24-HOUR PHONE: (34)
PAGER/CELL (30)		PAGER/CELL: (35)

Mail To: Judy Doyle-Fitzjarrell, Departmental Assistant
Santa Barbara County Fire Department
Hazardous Materials Unit
195 West Highway 246 #102
Buellton CA 93427

Telephone: (805) 686-8167
E-Mail – judy.doyle@sbcfire.com
Forms are located on our web site – www.sbcfire.com

Office Use Only: ☐ *No Change* ☐ *Contacts Updated* ☐ *Inventory Updated* ☐ *Maps Updated*

Reminder: Attach a copy of this certification to your current Business Plan.

Business Plan Inventory Summary

SBC 10/08/02

SITE ADDRESS
7980 GRACIOSA Rd **SANTA MARIA**

FACILITY NAME **FA0010327**
PEI - CAREAGA LEASE

PRIMARY CONTACT	DOUG CHANDLER	SECONDARY CONTACT	BRUCE FALKENHAGEN
TITLE	SUPERINTENDENT / OPERATOR	TITLE	MANAGER
BUSINESS PHONE	8059372187	BUSINESS PHONE	8055442153
24-HOUR PHONE	8053313341	24-HOUR PHONE	8055941199
PAGER / CELL	8053313341	PAGER / CELL	8057482045

CHEMICAL NAME	MAX AMOUNT	UNIT	GRID	LOCATION
ASPHALTENE CONTROL	110.0	G	L-3	MAP 2 - AT WELL #54
CORROSION INHIBITOR	55.0	G	G-3	MAP 3 - BY WELL #52
CRUDE OIL	34000.0	G	C7-8	MAP 4 - TANK BATTERY STORAGE TANKS
EMULSION BREAKER	110.0	G	L-3	MAP 2 - BY WELL #54
MINERAL SPIRITS <T	50.0	G	G-6	MAP 2 - AT OFFICE
SCALE INHIBITOR NALCO 1387	110.0	G	C-6	AT WELL #73
SULFA-CHECK	300.0	G	I-8	MAP 4-VERTICAL VESSEL @ GAS PLANT

G = Gallons P = Pounds F = Cubic Feet Contact Update Inventory Update Map Update

SANTA BARBARA COUNTY FIRE DEPARTMENT
CERTIFIED UNIFIED PROGRAM AGENCY
4410 CATHEDRAL OAKS ROAD, SANTA BARBARA CA 93110
(805) 686-8179

RECEIVED MAR 0 2 2012

2012 Annual Business Plan Certification - Due Date March 1, 2012

Date Printed: 12/9/2011

DO NOT MAKE CHANGES ON THIS FORM

Owner: OW0008373

GITTE-TEN LLC
2400 PROFESSIONAL PKWY #205
SANTA MARIA CA 93456
ATTN: GITTE-TEN LLC

Facility:

GITTE-TEN, LLC DBA PHOENIX ENERGY
7980 E SAN ANTONIO Rd
SANTA MARIA

FA0012340
PR0506836
S22

Date of Last Inventory Certification Received: 3/3/2011

Contacts	Name	Title	Business	24 Hour	Pager / Cell
Primary	DAVE DUECK	PRODUCTION FOREMAN	8059383320	8053493530	8052662442
Secondary	RICH FIELD	REGULATORY AFFAIRS MANAGER	8059383320	8053493530	8052669342

CHEMICAL INVENTORY AT: 042-000- 0012340 GITTE-TEN, LLC DBA PHOENIX ENERGY

Chemical	Max Amount	Unit	Location
ASPHALTINE INHIBITOR	100.00	G	D11,F8
CORROSION INHIBITOR	100.00	G	H10
CRUDE OIL	52,500.00	G	TANK LOCATIONS
DEMULSIFIER	100.00	G	D12, F9
GEAR LUBRICANT	250.00	G	G8
HYDRAULIC OIL	250.00	G	F11
HYDROGEN SULFIDE SCAVENGER	400.00	G	F9
HYDROGEN SULFIDE TREATMENT	75,000.00	P	B7
OXYGEN SCAVENGER	100.00	G	F7
PRODUCE FIELD GAS	50,000.00	F	E-11 GAS COLLECTION PIPELINE SYSTEM
PRODUCE WASTE WATER	2,000.00	G	G10, TANK BATTERY
WATER CLARIFIER	100.00	G	J10

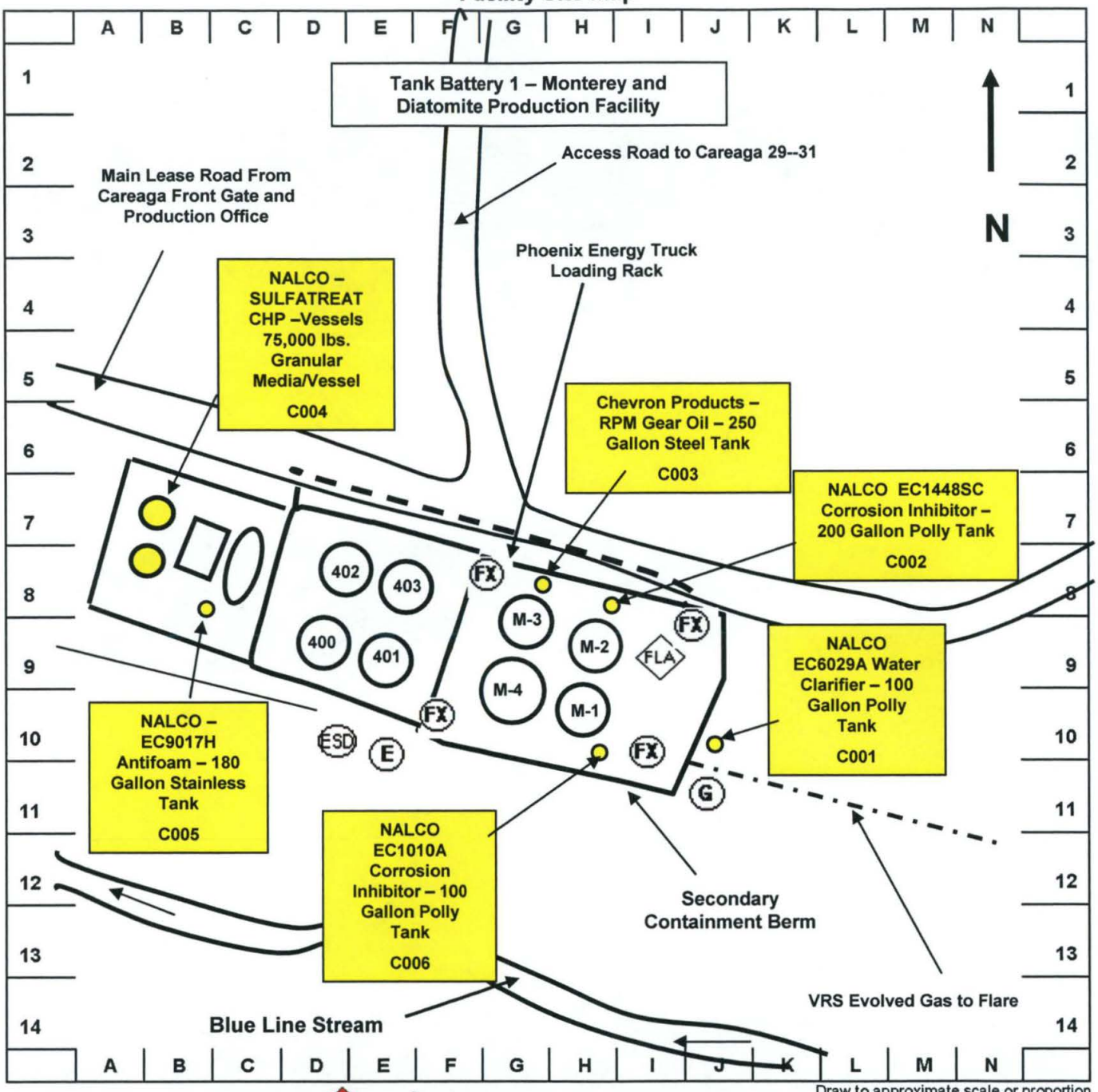
ENTERED MAR 0 2 2012

UNIT: G = GALLONS; F = CUBIC FEET; L = POUNDS; AND T = TONS

Office Use Only: ◯ *No Change* ◯ *Contact Updated* ◯ *Inventory Updated* ◯ *Map Updated*

Santa Barbara County Fire Prevention
Hazardous Materials Unit

Facility Site Map



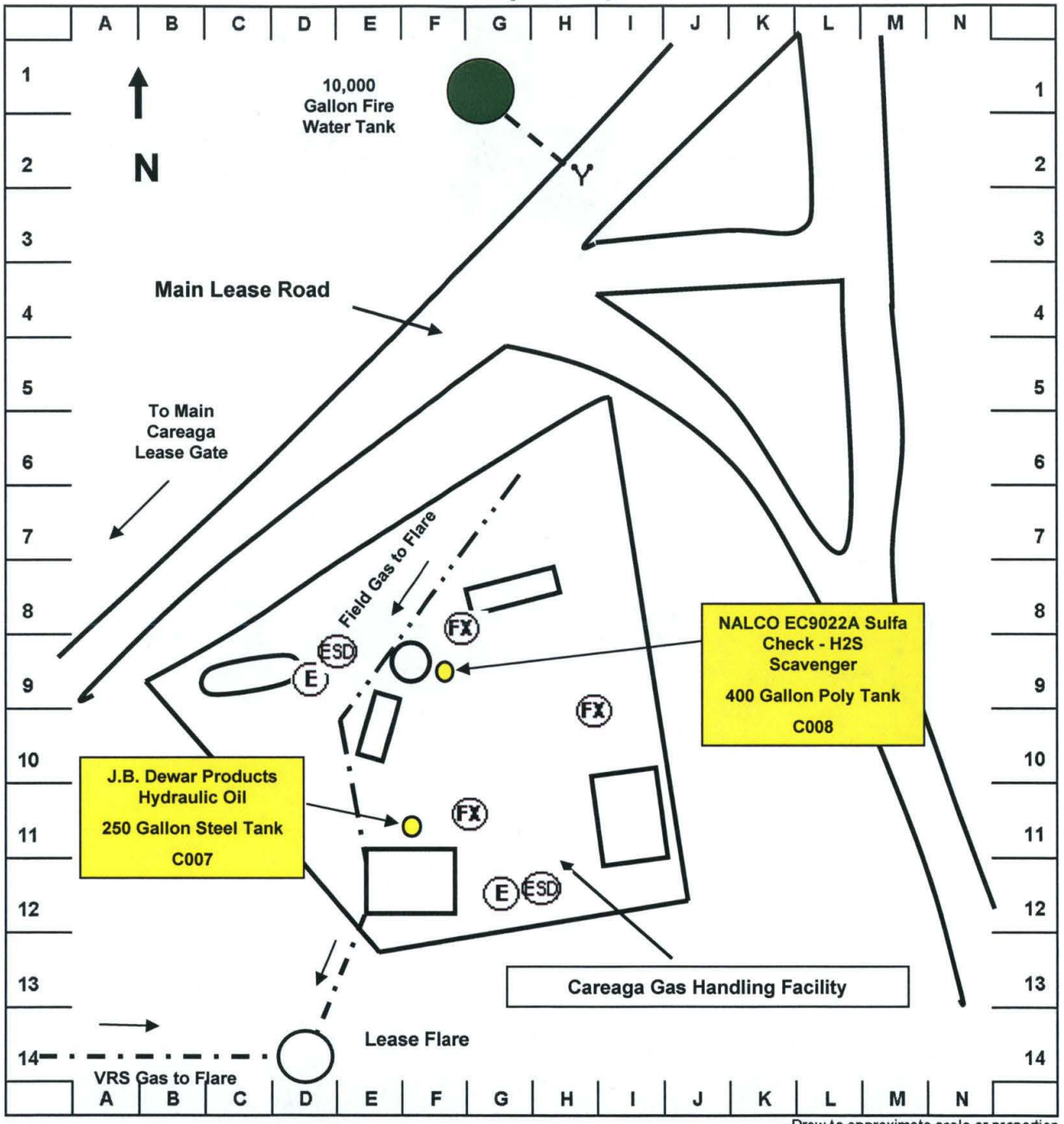
Draw to approximate scale or proportion

OUTSIDE PLACARD 1 3 0 **INSIDE PLACARD**

Business Name:	**Gitte-Ten, LLC d.b.a. Phoenix Energy, LLC**	Date:	**November 9, 2009**
Address:	**7980 East San Antonio Road, Santa Maria, Ca, 93456**		
Number of Employees in Facility Depicted Above - Day = **4** Night = **3**		Page **1** of **5**	

Santa Barbara County Fire Prevention
Hazardous Materials Unit

Facility Site Map



Draw to approximate scale or proportion

OUTSIDE PLACARD

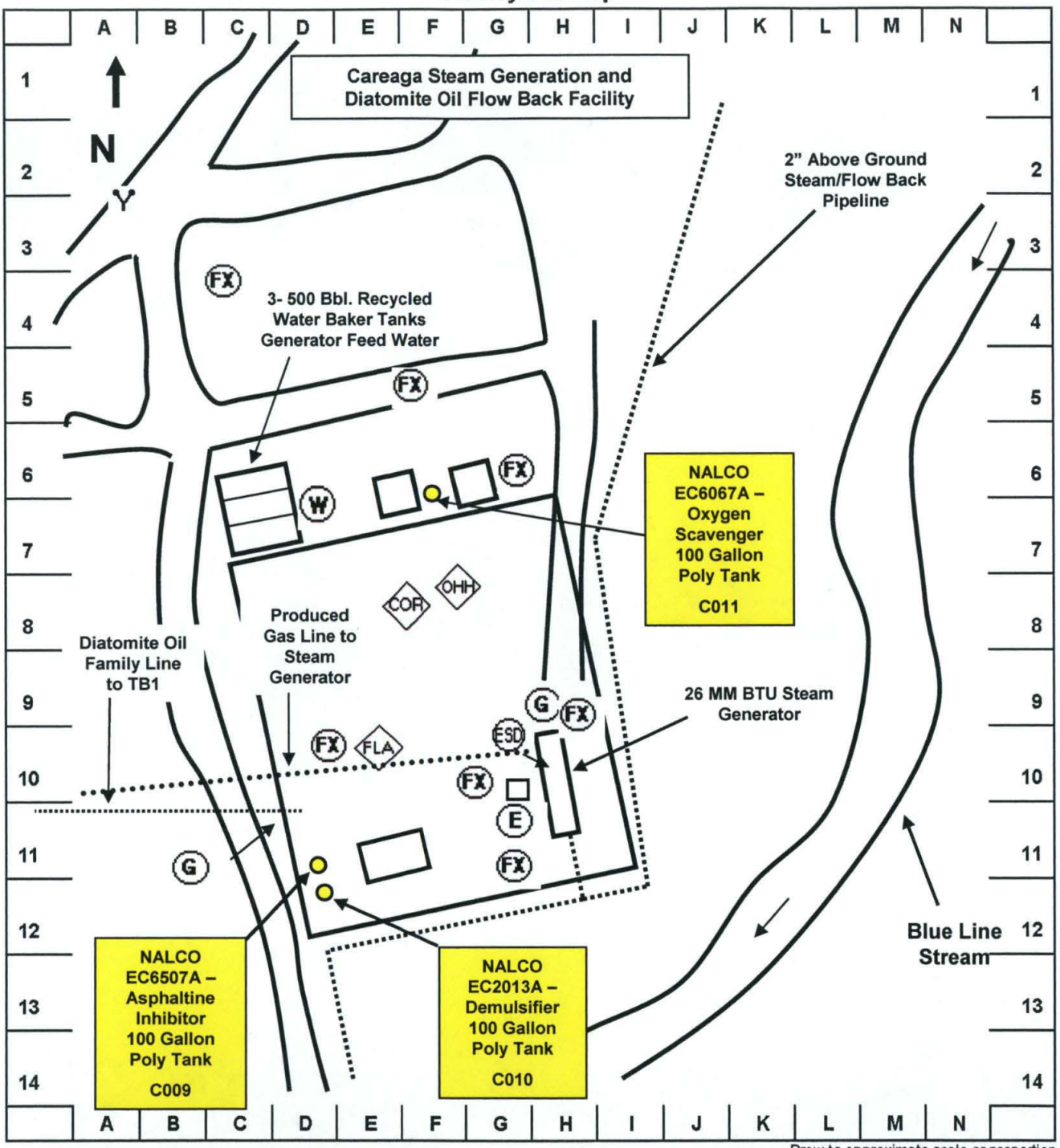


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Santa Barbara County Fire Prevention
Hazardous Materials Unit

Facility Site Map



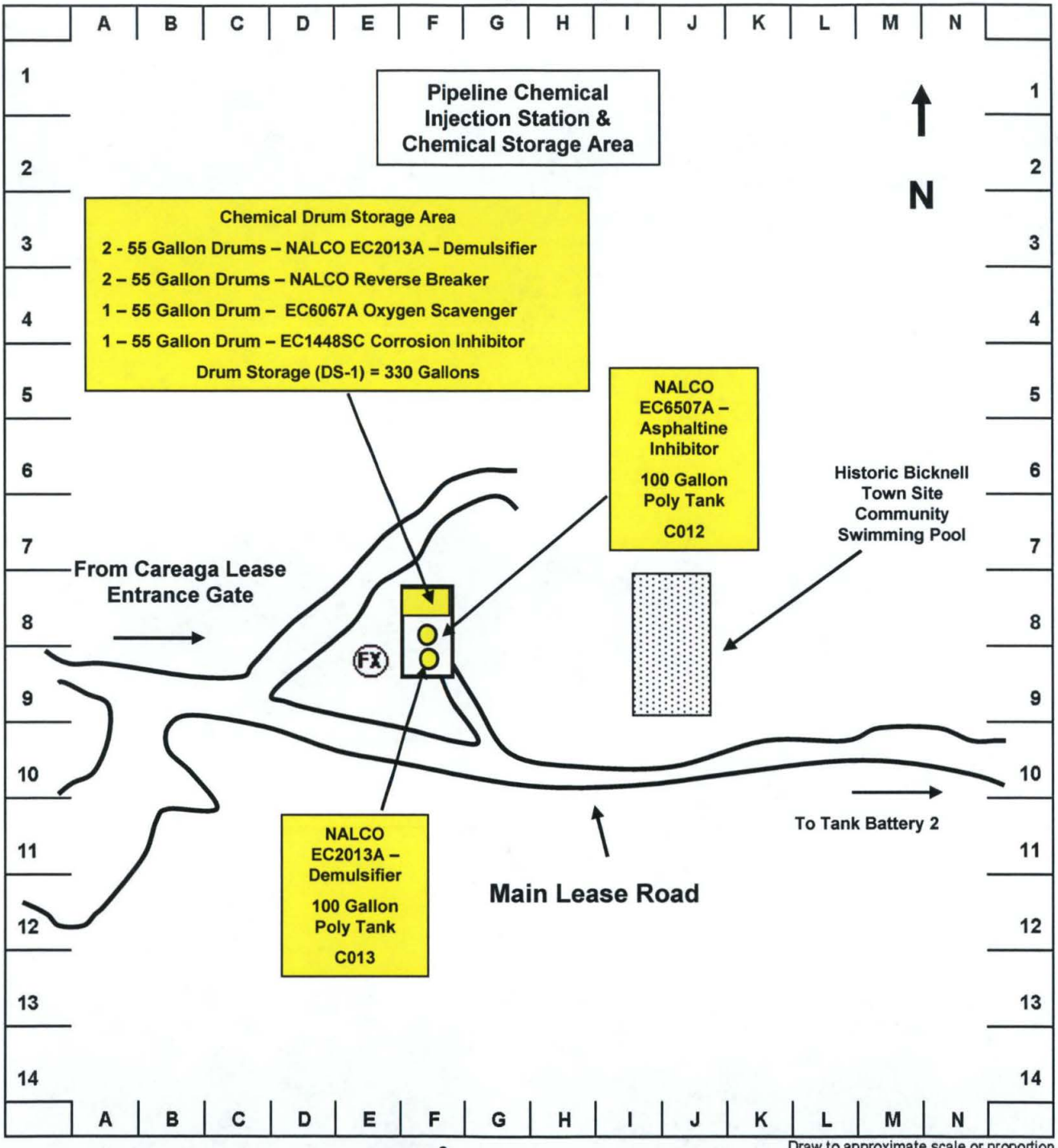
Draw to approximate scale or proportion

OUTSIDE PLACARD    INSIDE PLACARD

Business Name: **Gitte-Ten, LLC d.b.a. Phoenix Energy, LLC**	Date: **November 9, 2009**
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Number of Employees in Facility Depicted Above - Day = **4** Night = **3**	Page **3** of **5**

Santa Barbara County Fire Prevention
Hazardous Materials Unit

Facility Site Map



Draw to approximate scale or proportion

OUTSIDE PLACARD

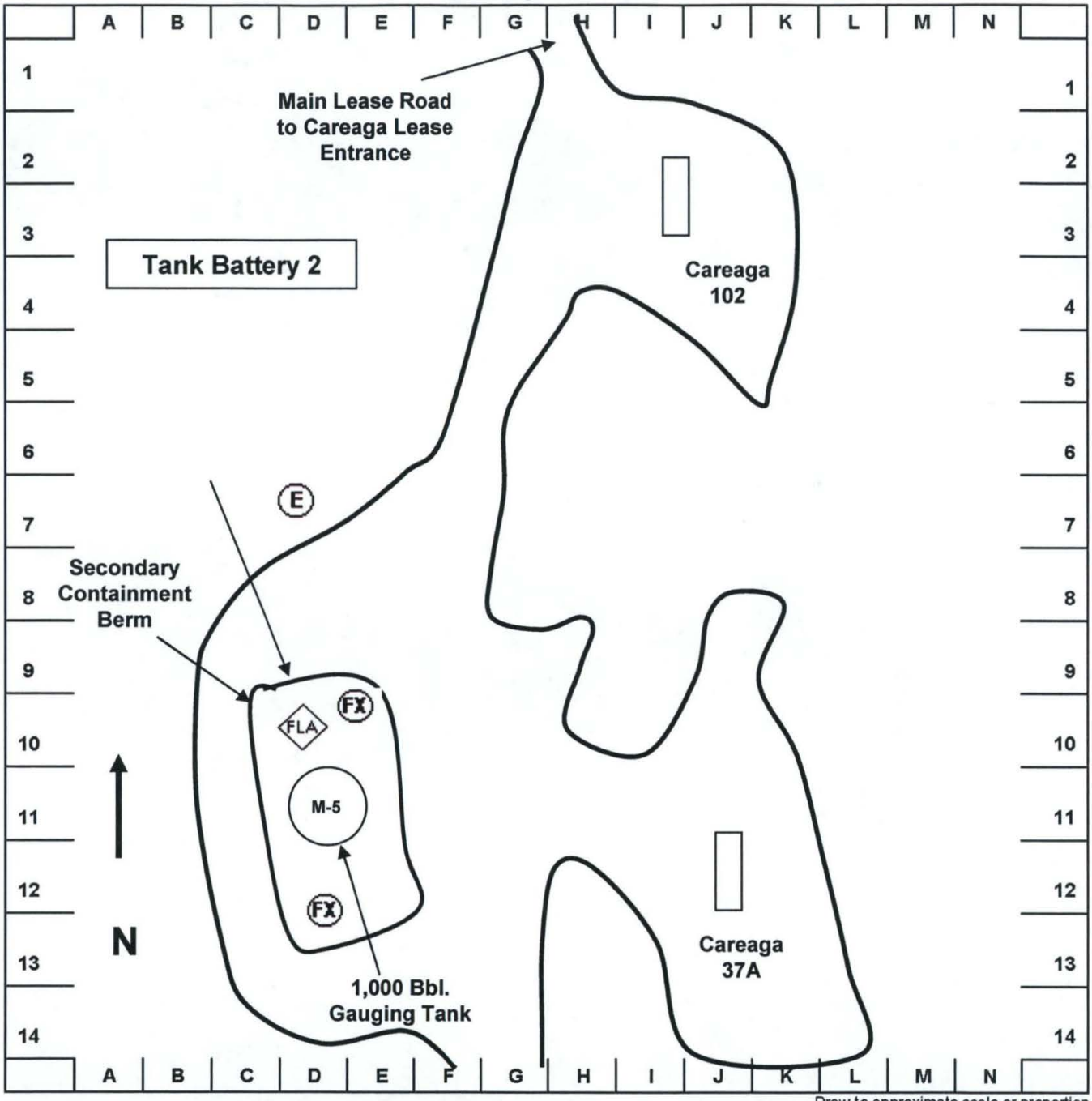


INSIDE PLACARD

Business Name: **Gitte-Ten, LLC d.b.a. Phoenix Energy, LLC**	Date: **November 9, 2009**
Address: **7980 East San Antonio Road, Santa Maria, Ca, 93456**	
Number of Employees in Facility Depicted Above - Day **4** Night = **3**	Page **4** of **5**

Santa Barbara County Fire Prevention
Hazardous Materials Unit

Facility Site Map



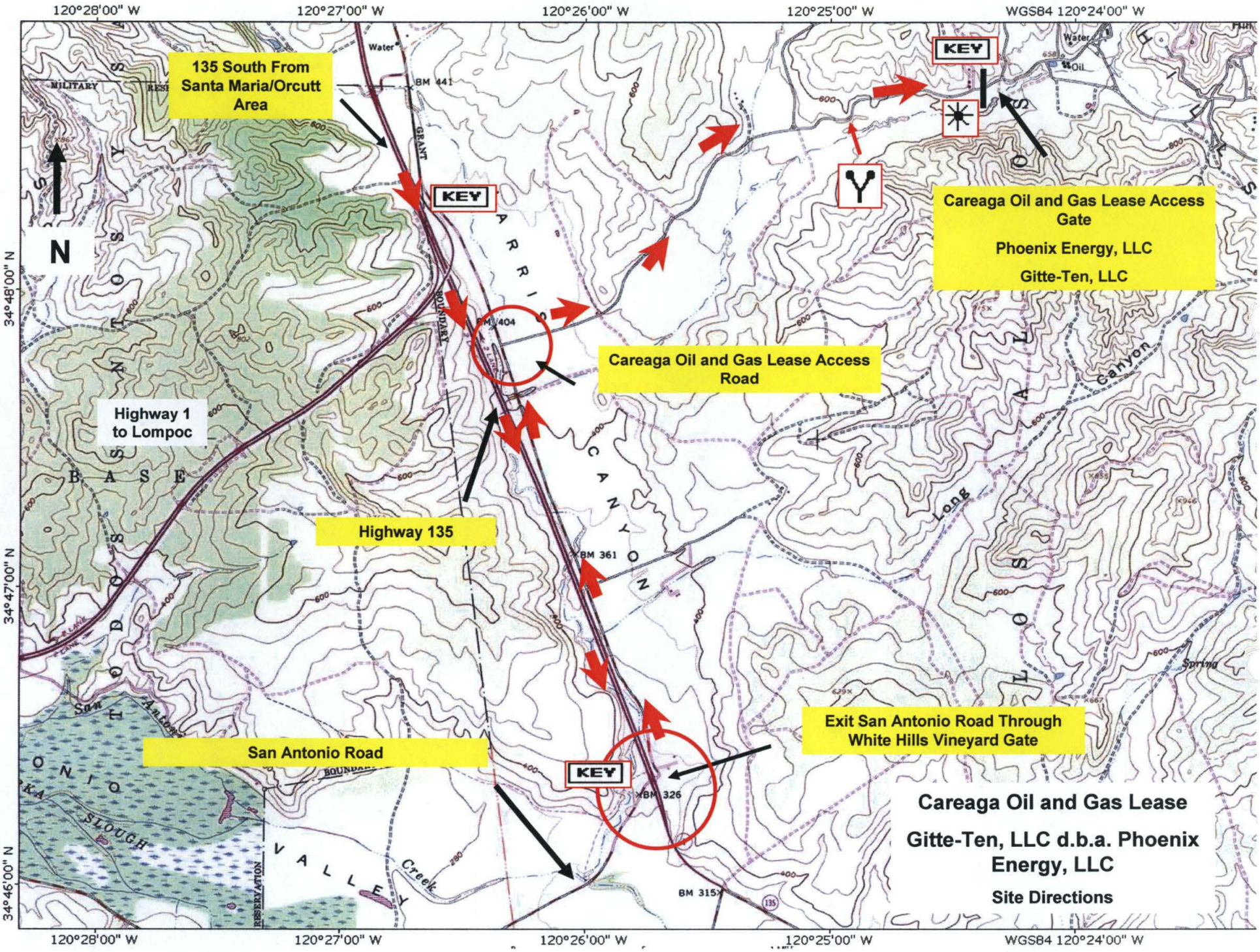
Draw to approximate scale or proportion

OUTSIDE PLACARD



INSIDE PLACARD

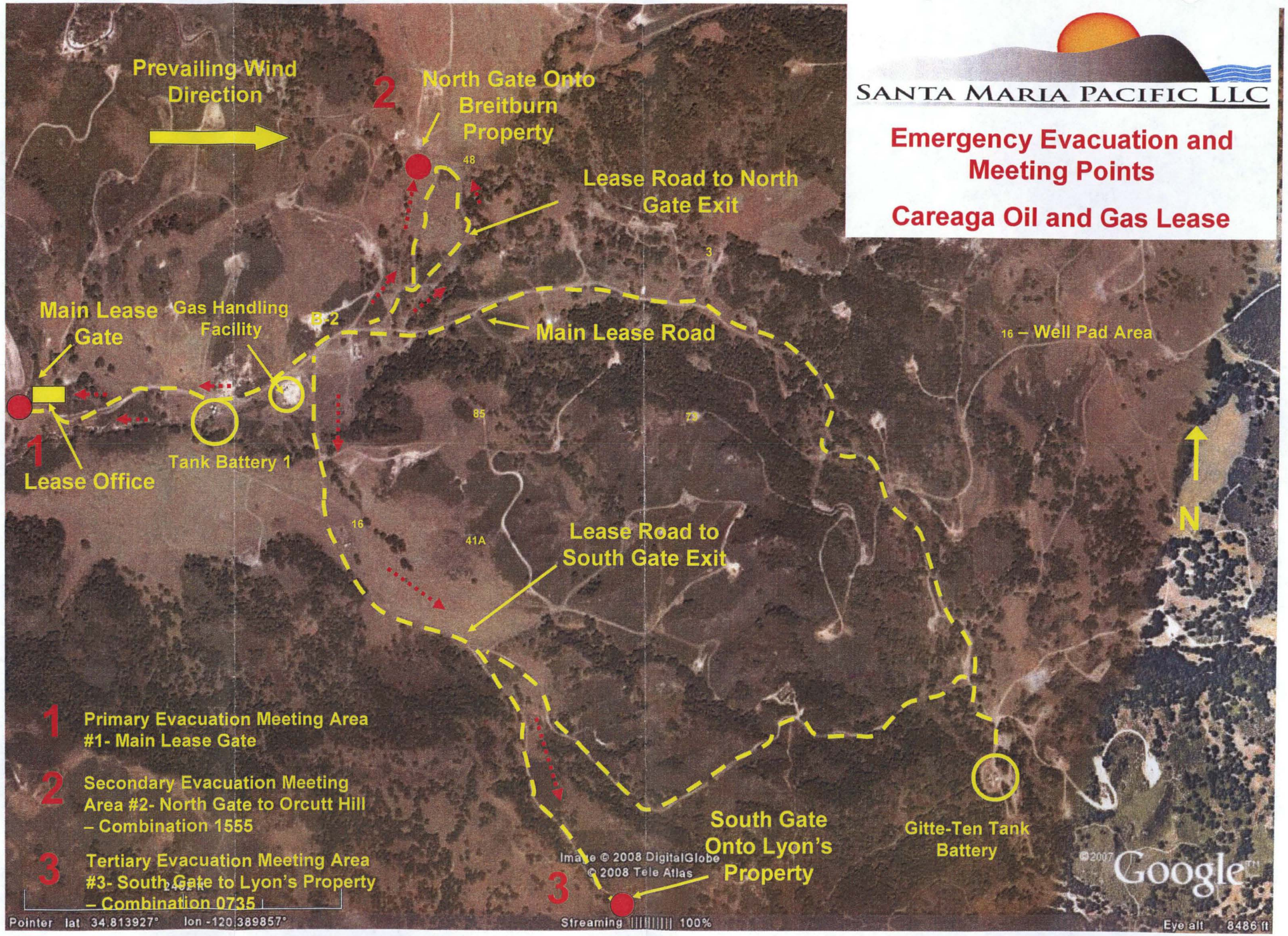
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Address: **7980 East San Antonio Road, Santa Maria, Ca, 93456**	
Number of Employees in Facility Depicted Above - Day = **4** Night = **3**	Page **5** of **5**


120°28'00" W
120°27'00" W
120°26'00" W
120°25'00" W
WGS84 120°24'00" W
34°48'00" N
34°47'00" N
34°46'00" N
N
135 South From Santa Maria/Orcutt Area
KEY
Careaga Oil and Gas Lease Access Gate
Phoenix Energy, LLC
Gitte-Ten, LLC
Careaga Oil and Gas Lease Access Road
Highway 1 to Lompoc
Highway 135
San Antonio Road
Exit San Antonio Road Through White Hills Vineyard Gate
Careaga Oil and Gas Lease
Gitte-Ten, LLC d.b.a. Phoenix Energy, LLC
Site Directions
BM 441
BM 404
BM 361
BM 326
BM 315
Water
Oil
Spring
Canyon
Creek
SLOUGH
VALLEY
BASE

SANTA MARIA PACIFIC LLC

Emergency Evacuation and Meeting Points

Careaga Oil and Gas Lease



Record Selection Criteria: Facility ID FA0015131

Make changes/corrections in RED ink or pencil.
INFORMATION CHANGE (date) : _____
OWNERSHIP CHANGE (date) : _____

OWNER FILE INFORMATION

Owner ID: OW0008373
Owner Name: GITTE-TEN, LLC DBA PHOENIX ENERGY
Owner DBA: PHOENIX ENERGY LLC
Owner Address: 2400 PROFESSIONAL PKWY # 205
SANTA MARIA, CA 93456

New Owner ID : _____
New CERS ID : _____
New EPA ID : _____

Home Phone: 805-938-3320
Work/Business Phone: Not Specified

Mailing Address: PO BOX 7202
SANTA MARIA, CA 93456
Care of: GITTE-TEN LLC

UPDATED PE 1701 TO PE1702 APSA 1,320 TO 9,999. IN REFERENCE TO IR DATED 10/17/17 FACILITY SHOULD BE IN APSA HAVING 2,070 GALLONS OF APSA REGULATED PRODUCT. BILLED FOR 2018-2019 APSA PERMIT

FACILITY FILE INFORMATION

Facility ID: FA0015131
Facility Name: SANTA MARIA ENERGY LLC
Location: 7980 SAN ANTONIO Rd E
SANTA MARIA, CA 93455
Phone: 805-938-3320

Latitude: 34.8139140
Longitude: -120.3984920
City Code: SBC - SANTA BARBARA COUNTY FIRE
Census Tract: 20.06 - Census Tract 20.06

Mailing Address: PO BOX 7202
SANTA MARIA, CA 93456
Care of:
EC E-mail: ltamura@santamariaenergy.com
Location Code: 55 - NORTH COUNTY UNINCORPORATED
BOS District: 008 - LPNF, CUYAMA, UNINCORP NORTH COUNTY

COMPLETED 7/26/18

CERS ID: 10209703
APN: 101-020-074
SIC Code: 1311

ACCOUNTS RECEIVABLE FILE INFORMATION

Account ID: AR0011837
Mail Invoices to:
Account Name: SANTA MARIA ENERGY LLC

New Account ID: _____
Mail Invoices to: Owner / Facility / Account
(Circle One)

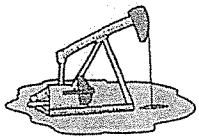
Account Balance as of 7/26/2018: $231.00

CREATED IN0053037 J.RUIZ 7/26/18

Program/Element and Description	Record ID	Employee ID and Name	Status	UST(s) Linked	Transfer to New Owner?	(Circle One) Active/Inactve Delete
2164 - Business Plans 11-20 Chemicals	PR0514018	EE0018051 - Gregory Berends	Active		Y N	A I D
	Last Activity:	10/12/2017 - ROUTINE-INITIAL-ONSITE				
1702 - APST 2: 1,320-9,999g	PR0514019	EE0018051 - Gregory Berends	Active		Y N	A I D
	Last Activity:	10/12/2017 - ROUTINE-INITIAL-ONSITE				

X CLEAN-UP COMPLETE
COMPLETION DATE 8-8-07

COUNTY OF SANTA BARBARA
PLANNING AND DEVELOPMENT DEPARTMENT
PETROLEUM OFFICE
624 W. Foster Road
Santa Maria, CA 93455
(805) 934-6128
(805) 934-6286 Fax



OIL SPILL REPORT

Date and Time Spill was Reported: 8-3-07, approx. 11:00am **Reported by:** Richard Field

Oil Company: Phoenix Energy, LLC **Phone:** (805) 268-4140

Lease: Orcutt Field - Careaga Lease (Well/ Careaga #37)

Location: 7980 Graciosa Rd. Santa Maria, CA. 93455

Cause of Spill: Stuffing box failure on the well head at Careaga #37 resulting in a release of crude oil to well site location as well as adjacent soils along down slope to drainage/wash area.

Date & Time of Spill: 8-3-07, approx. 10:30am

SUBSTANCE:

☐ **Produced Water** _____ /BBL

X **Oil** 20 /BBL

Office Use Only
☐ Billed ☐Log____Initials
X Non-billable
X Date 8-13-07
X Original in Well File
X Copy in Company File, email operator
X Copy in Spill File
X Initials FTL
X Copy Supervisor
☐ Soils: email report to FPD/HMU Steve Nailor for RWQCB.

- **Confined to Location or Bermed Area:** -Yes X-No
- **In Creek or Water Way:** -Yes -No
- **Reported To DOGGR:** X-Yes -No

Action Taken: (General Notes) Initial visit to spill site, the process of cleanup was ongoing, utilizing vacuum truck, two backhoes and hand crew. Impacted soils to be located at approved FPD site, in accordance with RWQCB requirements. (Impacted soils are being removed from location and placed into storage bins for disposal. All removed fluids will be taken to Phoenix Waste Tank. A high pressure kill switch on flow line will be installed to shut down production unit if pressure exceeds normal operating pressures. Information obtained from Richard Field representative of Phoenix Energy.) Operator is to return site to pre-spill conditions and complete cleanup within 10 days, in keeping with good oilfield and standard industry practices. Upon completion of action items, operator is to contact Petroleum Department for re-inspection.

X **Initial Site Visit Date & Time:** 8-3-07, approx. 12:05pm
X **Pictures:** attached to original report
X **Follow-up Site Visit Date:** within 10 calendar days

- **Date Action Taken:** 8-3-07
- **Comments:** OES#07-4658

Signature: Florentino T. Lopez **Title:** Petroleum Specialist **Date:** 8-13-07

H:\Forms\2007 Spills & Releases\SM Pacific_Phoenix Energy Well#37 Release (8-3-07)\Phoenix Energy_Careaga#37 Spill Report (8-3-07).doc

X Additional Pages attached to original
X Pictures Attached to original

COUNTY OF SANTA BARBARA
PLANNING AND DEVELOPMENT DEPARTMENT
PETROLEUM OFFICE
624 W. Foster Road, Suite B
Santa Maria, CA 93455
Phone: 805-934-6128
FAX: 805-934-6286

128

INSPECTION REPORT/ NOTICE TO COMPLY

8-3-07 @ 12:05PM

Operator/ Owner Name	Project Reference/Lease Name/Well Name
Santa Maria Pacific/ Phoenix Energy, LLC	@ Phoenix Energy, Well #37
Address	Careaga Lease

☐ Interim Inspection	☐ Annual Inspection	☐ Final Inspection	☐ Restoration
☐ Agency Referral: From:_____ To:_____	☒ Oil Spill Reported 8-3-07	☐ BUSE	☐ SMU-2# _____
☐ Progress/Reason: _____			

Code Description/Section	Code Description/Section
☐ Pollution Control Plan, 25-10	☐ Emission Control, 25-25
☐ Drilling & Well Servicing, 25-26	☐ Piping, 25-28
☐ Fire Prevention, 25-29	☐ Secondary Operation, 25-31
☒ Pollution, 25-38	☐ Cellars, 25-42
☐ Signs, 25-43	☐ Other:
☐ Storage, 25-27	☐ Other:
☐ Removal of Equipment 25-33	
☒ Other:	

In order to comply with Chaper 25 of the County Code; In response to reported oil spill:

(1) Berm and contain release.

(2) Remove all free standing fluids.

(3) Remove impacted soils from location area and maintain in accordance with FDP/ RWQCB requirements.

(4) Repair failed stuffing box and return site to pre-spill conditions. In keeping with good oil field and standard industry practices.

(5) Contact Petroleum office for re-inspection of above items within 10 days.

General Notes: Initial site visit clean up process was underway utilizing vac trucks, backhoes and hand crews. Other equipment was in transport to site.

The above deficiencies are to be corrected within 10 **days of the date of this notice, or operator will be subject to penalties outlined in Section 25-16 of the County Code, and/or additional Codes, as applicable.**

Petroleum Office Representative: Florentino T. Lopez Received By: (Company Representative)

Date: 8-3-07 Edward Hill II Phoenix Eng

1 OF 2

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170

(805) 686-8183

INCIDENT AND RESPONSE DESCRIPTION

911 CALLED? ☒ YES ☐ NO

Date / Time Discovered 8/3/07 10:30 Date / Time Discharge 8/3/07 | Discharge Stopped ☒ Yes ☐ No

Incident Reporting Date / Time 8/3/07 1100 (630-1030)

Incident Business / Site Name Phoenix Energy, LLC - Careaga Oil & Gas Lease

Incident Address 7980 La Graciosa Rd, Santa Maria, Ca 93455

Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS) Orcutt Field, Careaga Lease #37

Please describe the incident and indicate specific causes and area affected. Stuffing box failure resulting in release of 20 BBLs of crude oil. Crude oil impacts to location soils & adjacent soils (off road) along downslope drainage/wash

Indicate actions to be taken to prevent similar spills from occurring in the future.

Install high pressure kill switch on flow line to shut down Production unit if pressure gets too high - Inspect all stuffing boxes at operating wells

2. ADMINISTRATIVE INFORMATION

Business Name Phoenix Energy, LLC

Address P.O. Box 7208, Santa Maria, Ca 93456

Supervisor in charge at time of incident Mike Dean | Phone 805-310-0528

Contact Person Richard Field | Phone 805-268-4140

3. CHEMICAL / RELEASE INFORMATION

CALL 911 FOR ANY RELEASES INTO WATERWAYS, WETLANDS, OR AGRICULTURE AREAS.

Chemical Crude Oil	Quantity 840	☒ GAL ☐ LBS ☐ FT³
Chemical	Quantity	☐ GAL ☐ LBS ☐ FT³
Chemical	Quantity	☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline:

Crude oil impacted soils around well head & on location have been removed and placed in roll top bin for disposal. Crude oil on lease road was mixed w/ soil & placed in roll off bin for disposal

Completed By [signature] Phone (805) 268-4140

Print Name Richard H. Field II Title Regulatory Affairs Manager Date and Time 8/3/07 1700

SANTA BARBARA COUNTY FIRE DEPARTMENT PROTECTION SERVICES DIVISION USE ONLY

Date Received	Time	OES Control #	CIR #
Received By	Assigned To		ER ☐ Yes ☐ No
Date / Time Reported to 911	Late Report ☐ Yes ☐ No	INCIDENT #	
From 911 Dispatch ☐ Yes ☐ No	Dispatch Requested HMU Respond ☐ Yes ☐ No	Time of Dispatch Request	
Time HMU Responding	Time On Scene	Time Back in Service	☐ Joint ☐ Multi-Agency
PROP 65 ☐ Yes ☐ No	DATE/TIME TO HCS	DATE/TIME TO COUNTY OES	
MATERIAL		VOLUME	
HAZARD		EVACUATION/ACCESS RESTRICTED ☐ Yes ☐ No	

RECEIVED

AUG 06 2007

Current Status: ☐ Clean-Up Underway ☐ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

COMMENTS PETROLEUM

NOTIFICATION CHECKLIST

CODE 20 ☐ Yes ☐ No ☐ Unknown

☐ County OES ☐ State OES Response ☐ County Petroleum ☐ State DOGGR ☐ County Ag Comm ☐ State Fish & Game ☐ Local Fire _____ ☐ Road Dept ☐ State RWQCB ☐ APCD ☐ CHP ☐ EHS ☐ Cal Trans ☐ Cal OSHA ☐ DTSC

2 of 2

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170

(805) 686-8183

1. Incident and Response Description

911 Called? ☐ Yes ☐ No

Date / Time Discovered	Date / Time Discharge	Discharge Stopped ☐ Yes ☐ No

Incident Reporting Date / Time

Incident Business / Site Name

Incident Address

Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)

Please describe the incident and indicate specific causes and area affected.

Indicate actions to be taken to prevent similar spills from occurring in the future.

2. Administrative Information

Business Name

Address

Supervisor in charge at time of incident	Phone
Contact Person	Phone

3. Chemical / Release Information

Call 911 for any releases into waterways, wetlands, or agriculture areas.

Chemical	Quantity ☐ Gal ☐ Lbs ☐ Ft^3
Chemical	Quantity ☐ Gal ☐ Lbs ☐ Ft^3
Chemical	Quantity ☐ Gal ☐ Lbs ☐ Ft^3

Clean-Up Procedures & Timeline: Cont.

Hydrocarbon impacted soils released off of location will be remediated pending a determination from DFG - DFG has not responded as of 5:30 p.m. 8/3/07

Completed By Phone

Print Name Title Date and Time

Santa Barbara County Fire Department Protection Services Division Use Only

Date Received	Time	OES Control #	CIR #
Received By	Assigned To		ER ☐ Yes ☐ No
Date / Time Reported to 911	Late Report ☐ Yes ☐ No	Incident #	
From 911 Dispatch ☐ Yes ☐ No	Dispatch Requested HMU Respond ☐ Yes ☐ No	Time of Dispatch Request	
Time HMU Responding	Time On Scene	Time Back in Service	☐ Joint ☐ Multi-Agency
Prop 65 ☐ Yes ☐ No	Date/Time to HCS	Date/Time to County OES	

Material	Volume
Hazard	Evacuation/Access Restricted ☐ Yes ☐ No

Current Status
☐ Clean-Up Underway ☐ Condition Abated ☐ No Action Taken
☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other
☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

Comments

Notification Checklist — Code 20 ☐ Yes ☐ No ☐ Unknown

☐ County OES ☐ State OES Response ☐ County Petroleum ☐ State DOGGR ☐ County Ag Comm ☐ State Fish & Game ☐ Local Fire _____ ☐ Road Dept ☐ State RWQCB ☐ APCD ☐ CHP ☐ EHS ☐ Cal Trans ☐ Cal OSHA ☐ DTSC

AUG 07 2007

Complaint Investigation Record
SANTA BARBARA COUNTY HAZARDOUS MATERIALS UNIT

Date 8/7/07	Time 1145	OES Control # 07-4658	CIR # N-231
Received By Dispatch	Assigned To Steve Lowe / Mark West		ER ☒ Yes ☐ No
Date/Time Reported to 911 SAME	Late Report ☐ Yes ☒ No	Incident # 07-6229	
From 911 Dispatch ☒ Yes ☐ No	Dispatch Requested HMU Respond ☒ Yes ☐ No	Time of Request 1112	
Time HMU Responding 1115	Time On Scene 1328	Time Back In Service 1700	☐ Joint ☐ Multi-Agency
☐ CAER Form Received – Date/Time	☐ OES Form Received – Date/Time		

REPORTING PARTY (RP) Phoenix Energy - Richard Powell	PHONE 805-354-4799
COMPANY Phoenix Energy	
ADDRESS 1555 Orcutt Hill Rd	
POTENTIAL RESPONSIBLE PARTY (PRP)	PHONE
COMPANY SAME	
ADDRESS	
SITE INFORMATION COMPANY Phoenix Energy	OPERATOR Richard Powell
ADDRESS 1555 Orcutt Hill Rd	
CROSS STREET Coreage lease well # 37	PHONE 805-268-4140

SUBSTANCES INVOLVED	Quantity Released	
1. Crude oil with process water	~20-40 bbls	☐ Unknown
2.		☐ Unknown

DATE/TIME DISCOVERED	DATE/TIME DISCHARGE BEGAN	DISCHARGE STOPPED
1030	unk	☒ Yes ☐ No

CURRENT STATUS
- ☒ Clean-Up Underway
- ☐ Condition Abated
- ☐ No Action Taken
- ☐ Other
- ☐ Pollution Characterization Underway
- ☐ Preliminary Site Assessment Underway
- ☐ Case Closed (Clean-Up Completed or Unnecessary)

PROP 65 ☒ Yes ☐ No	Date/Time to HCS 8/7/07 11:47	Date/Time to County OES 8/7/07 11:47
MATERIAL Crude oil / Process water		VOLUME 20-40 bbls
HAZARD Toxic - Combustible.		EVACUATION / ACCESS RESTRICTED ☒ No ☐ Yes

COMPLAINT DESCRIPTION FROM REPORTING PARTY (RP)

Stuffing Box Failed @ well # 37 on the Coreage lease at approx. 0630-1030am. Oil released about 1/4 mile from well head. with approx. 10-20 bbls of crude oil going into a seasonal creek. Dept of Fish & Game notified and SMU notified.

RECEIVED
AUG 07 2007
PETROLEUM

NOTIFICATION CHECKLIST	Code 20 ☐ Yes ☐ No ☐ Unknown *			
☒ COUNTY OES	☒ COUNTY PETROLEUM	☐ COUNTY AG COMM	☐ LOCAL FIRE	☐ APCD ☐ CAL TRANS
☐ STATE OES RESPONSE	☐ STATE DOG	☒ STATE FISH & GAME	☐ ROAD DEPT	☐ CHP ☐ CAL OSHA
			☐ STATE RWQCB	☒ EHS ☐ DTSC

FAXED OES FAXED 8485 FAXED Petroleum (934-L7FD) FAXED State Fish & Game

GOVERNOR'S OFFICE OF EMERGENCY SERVICES

Hazardous Materials Spill Report

DATE: 08/03/2007 TIME: 1433	RECEIVED BY:	CONTROL#: OES - 07-4658 NRC -

1.a. PERSON NOTIFYING GOVERNOR'S OES:

1. NAME:	2. AGENCY:	3. PHONE#:	4. Ext:	5. PAG/CELL:
	Phoenix Energy LLC			

1.b. PERSON REPORTING SPILL (If different from above):

1. NAME:	2. AGENCY:	3. PHONE#:	4. Ext:	5. PAG/CELL:

2. SUBSTANCE TYPE:

2. a. SUBSTANCE:	b.QTY:>=<	*Amount*	*Measure*	c. TYPE:	d. OTHER:
1. Crude Oil	=	20	Bbl.(s)	PETROLEUM	
2.	=				
3.	=				

e. **DESCRIPTION:** Stuffing box failure on the well head caused this spill

f. CONTAINED:	g. WATER INVOLVED:	h. WATERWAY:	i. DRINKING WATER IMPACTED
Yes	No		No

3. a. INCIDENT LOCATION: Careaga Well #37 1555 Orcutt Hill Rd
b. CITY: c. COUNTY: d. ZIP:
Santa Maria Santa Barbara County 93456

4. INCIDENT DESCRIPTION:
a. DATE: 08/03/2007 **b. TIME** *(Military):* 1030 **c. SITE:** Oil Field
d. INJURIES# e. FATALS #: f. EVACS #: g. CLEANUP BY:
0 0 0 Reporting Party

6. NOTIFICATION INFORMATION:

a. ON SCENE:	b. OTHER ON SCENE:	c. OTHER NOTIFIED:
Fire Dept., Other	DOG 3	

d. ADMIN. AGENCY: Santa Barbara County Environmental Health
e. SEC. AGENCY:
f. NOTIFICATION LIST: **DOG Unit:** 3 **RWQCB Unit:** 3

AA/CUPA, DFG-OSPR, DTSC, RWQCB, US EPA, USFWS, DOG

********* **Control No: 07-4658** *********

Created by: Warning Center on: 08/03/2007 02:33:57 PM Last Modified by: Warning Center on: 08/03/2007 02:47:22 PM

Careaga 37

Crude Oil Release

August 3, 2007

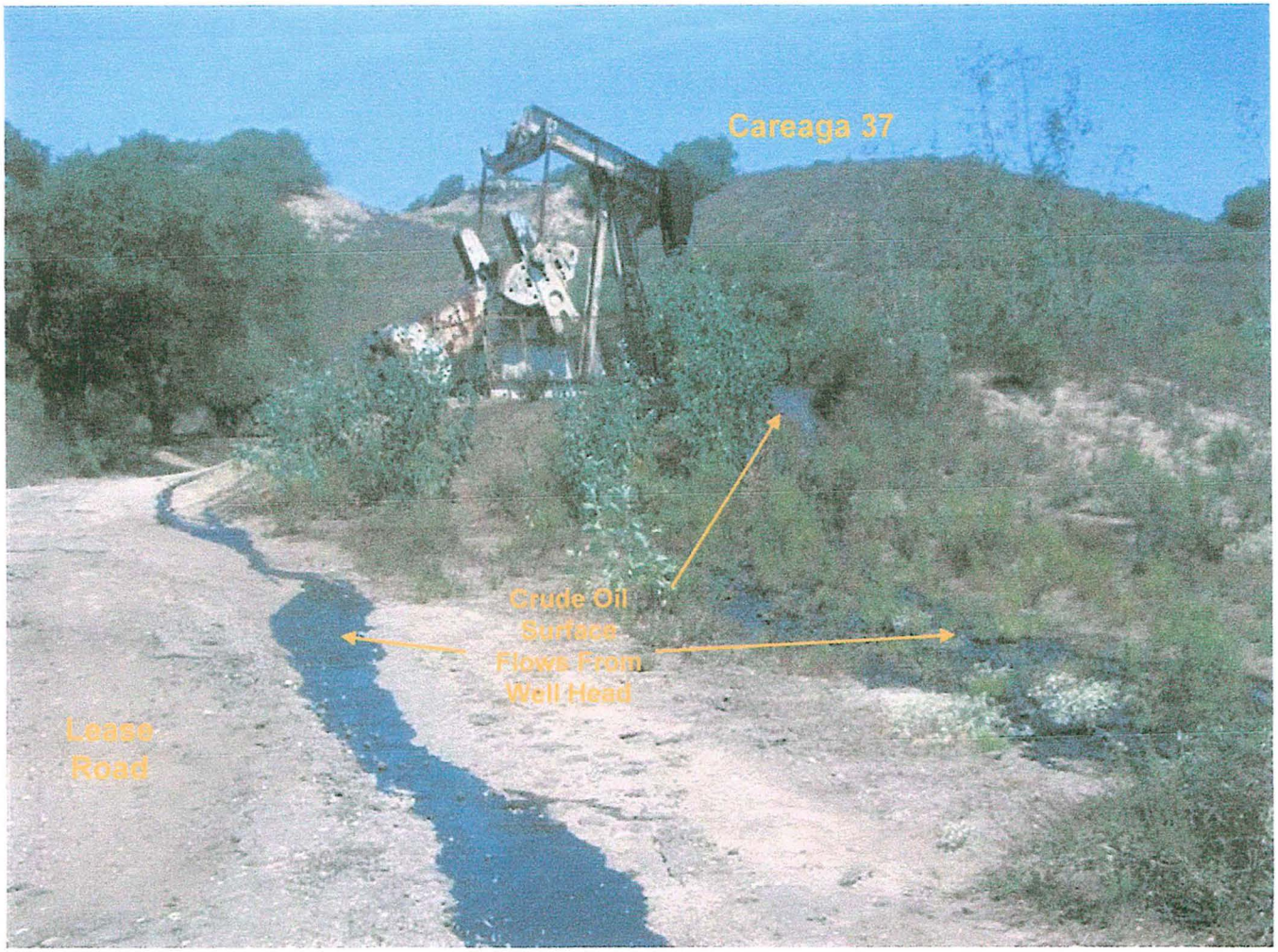


Looking south west on Careaga 37 location- Source of oil release, stuffing box failure	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37

Crude Oil Release

August 3, 2007



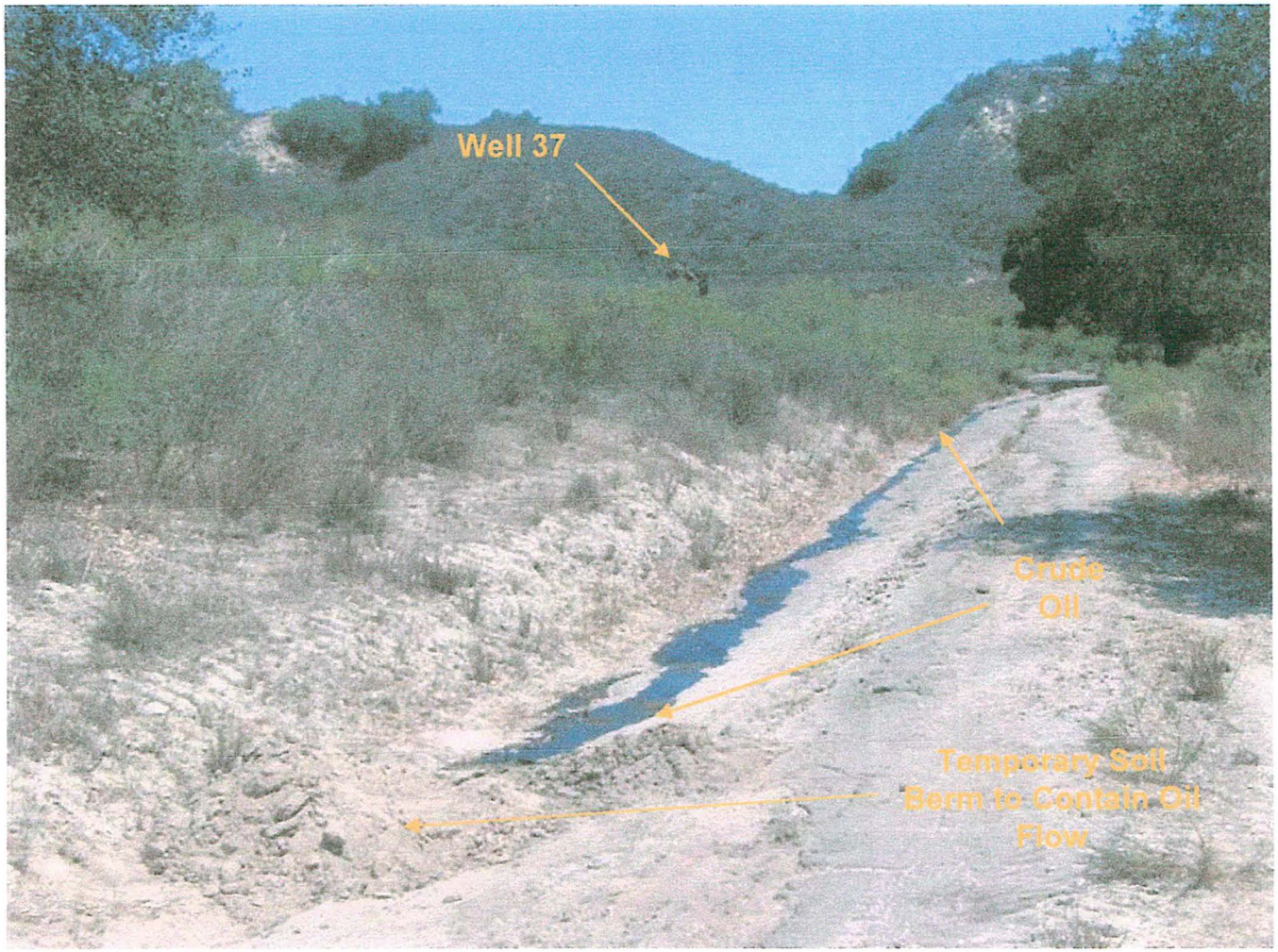
N

Looking north east toward Careaga 37 location- Crude Oil Surface flows extending down slope from oil well location	Phoenix Energy, LLC	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37

Crude Oil Release

August 3, 2007



Looking north east toward Careaga 37 location- Crude Oil flow down slope on lease road	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37

Crude Oil Release

August 3, 2007



End point of surface flow on lease road	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37

Crude Oil Release

August 3, 2007



N

Looking north east toward Well 37- Mid point extent of crude oil flow along lease road.	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37

Crude Oil Release

August 3, 2007



N

Looking south west- Crude oil from Careaga 37 location flowing down slope following general drainage pattern of area	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

Careaga 37
Crude Oil Release
August 3, 2007



N

Crude oil Flow from Careaga 37 following the natural drainage pattern of the area	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

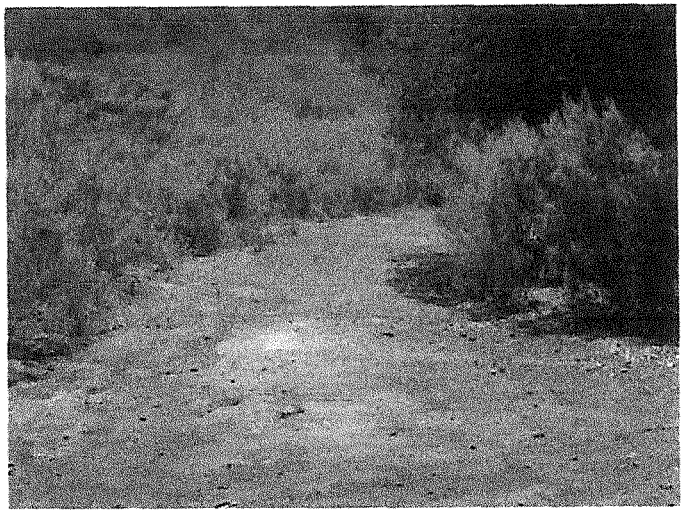
Careaga 37
Crude Oil Release
August 3, 2007

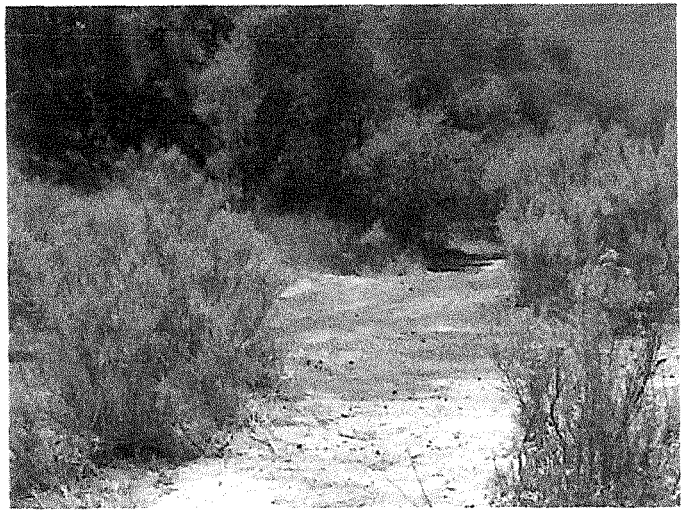


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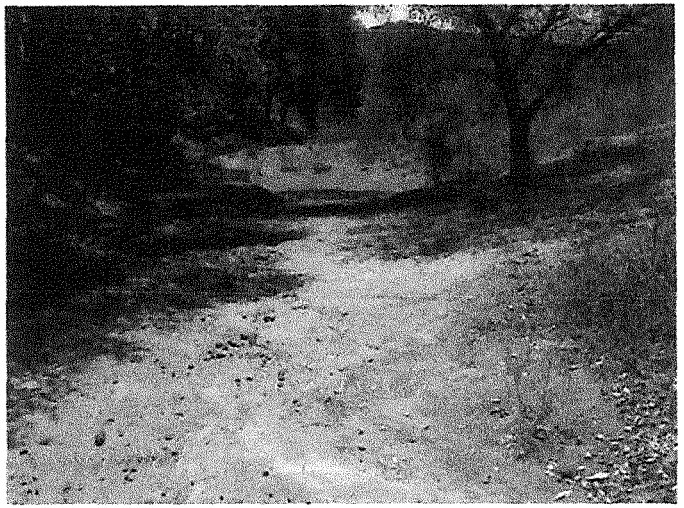
Crude oil flowing down gradient from Well 37 release point, following terrain of area	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37
Crude Oil Release
August 6, 2007



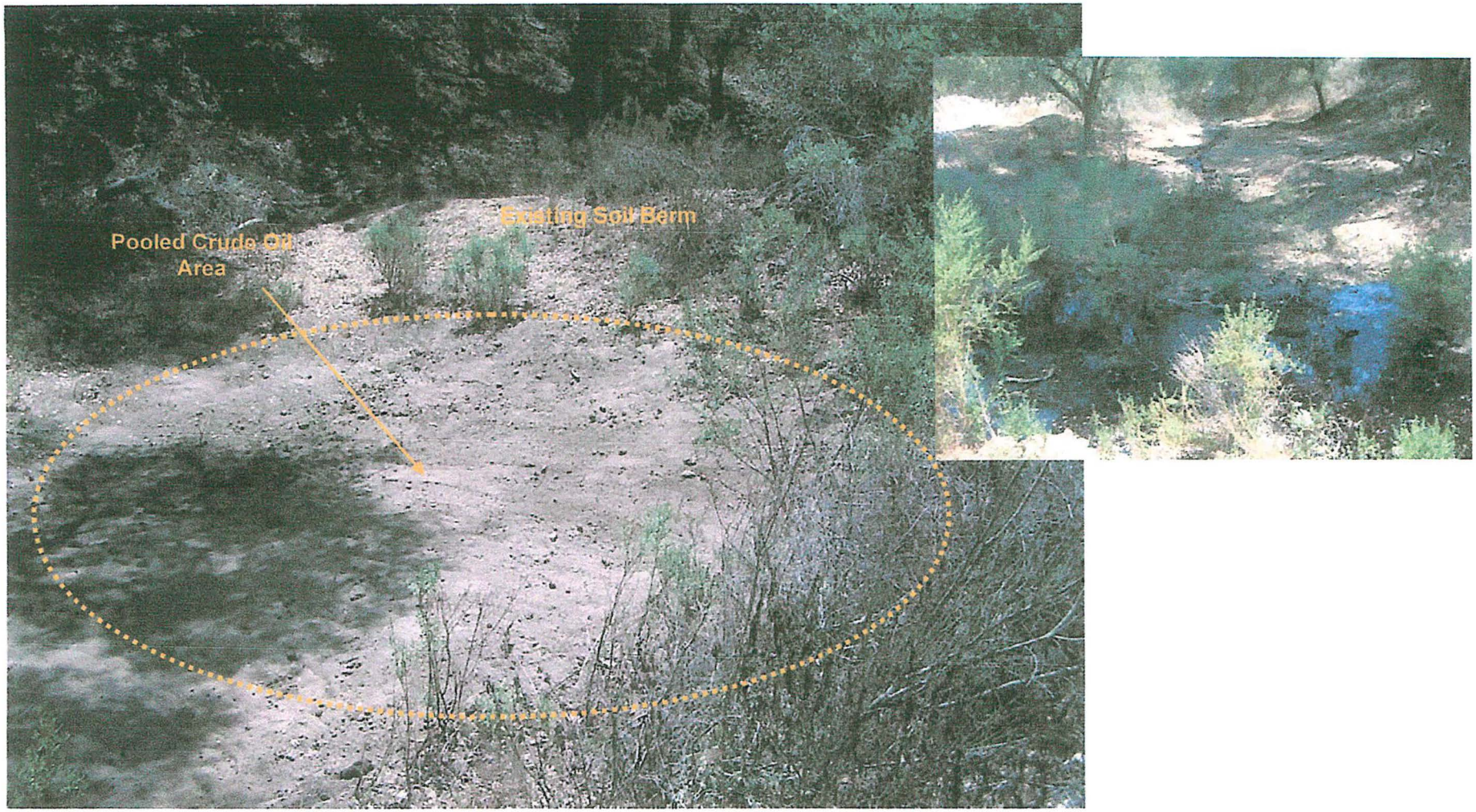






Surface flow areas – Post clean up activities	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37
Crude Oil Release
August 6, 2007



End point of surface flow – Post clean up activities	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37
Crude Oil Release
August 5, 2007









Phoenix Energy's Response Team removing hydrocarbon impacted soil and vegetation with hand tools. Affected material was hand shoveled into back hoe bucket for transport to on site roll top bins.	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease** **Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

Careaga 37
Crude Oil Release
August 6, 2007







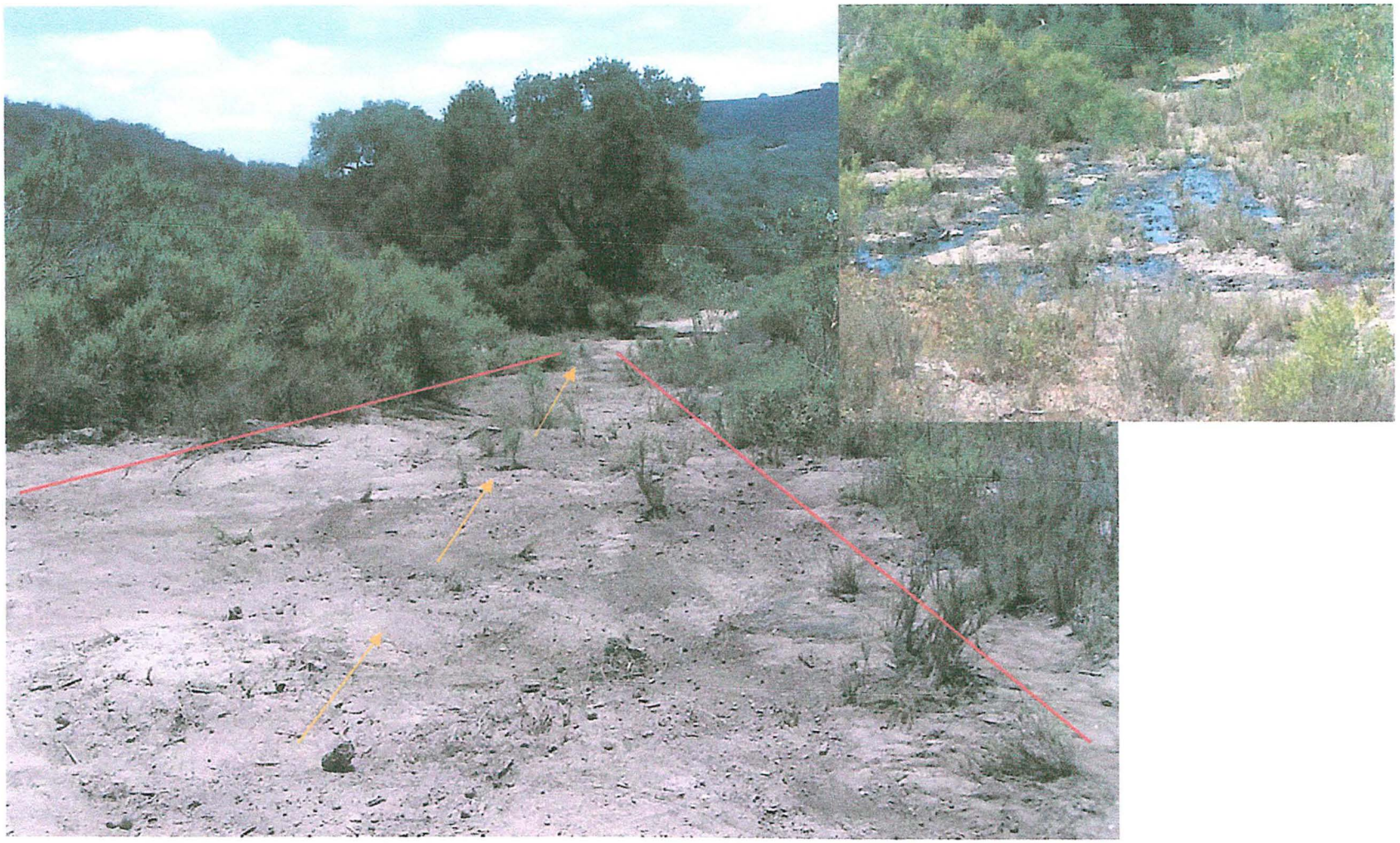
Surface flow area along lease road – Post clean up activities	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

Careaga 37
Crude Oil Release
August 6, 2007



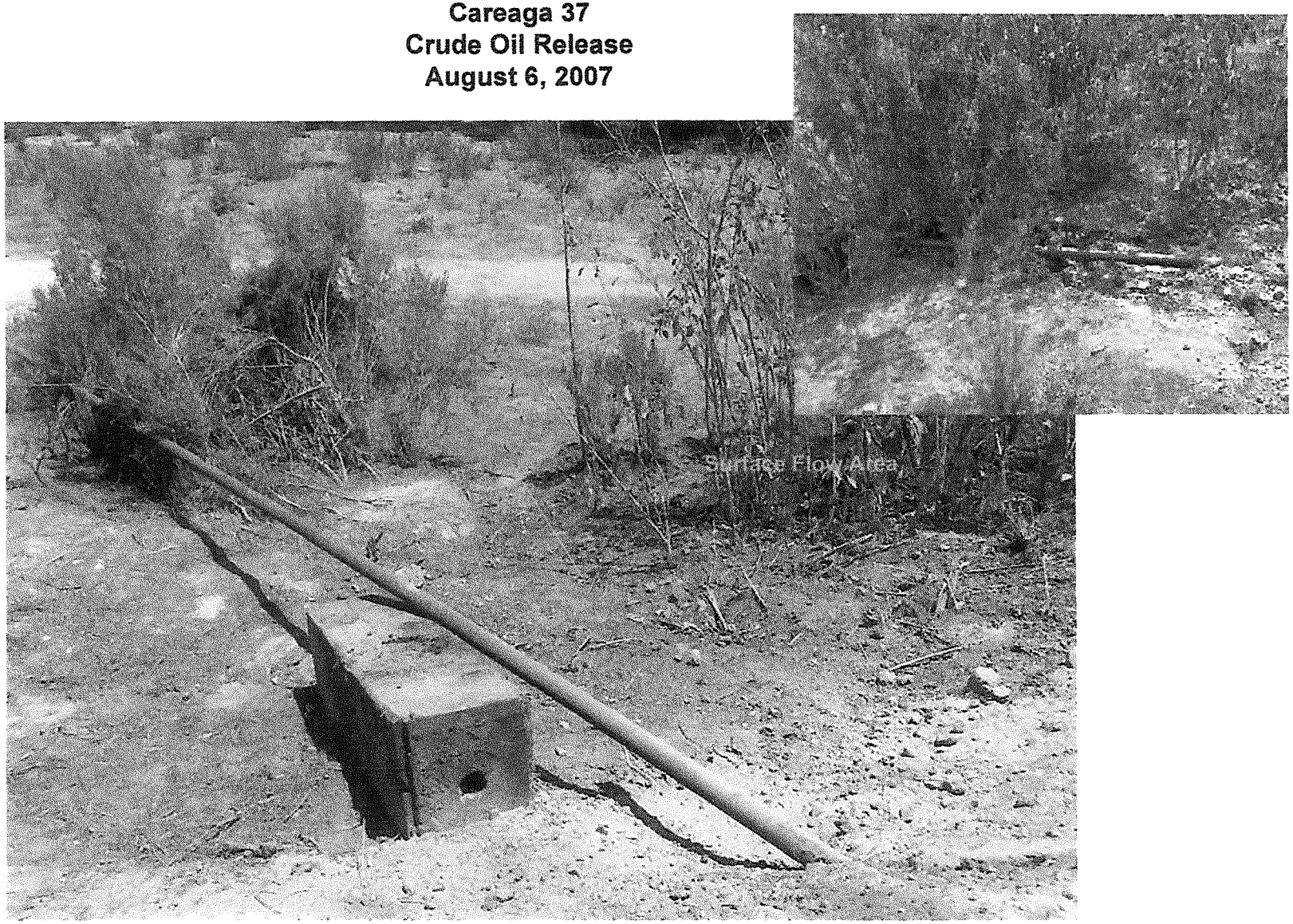
Well pad and lease road surface flow area – Post clean up activities	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

Careaga 37
Crude Oil Release
August 6, 2007



Surface flow area – Post clean up activities	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

Careaga 37
Crude Oil Release
August 6, 2007



East side of well pad - Post clean up activities	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37
Crude Oil Release
August 6, 2007



Careaga 37 well head after impacted soil removal activities	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease** **Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

Careaga 37
Crude Oil Release
August 6, 2007





Looking south west onto Careaga 37 well pad location after removal of hydrocarbon impacted soil	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease** **Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

Careaga 37
Crude Oil Release
August 3, 2007



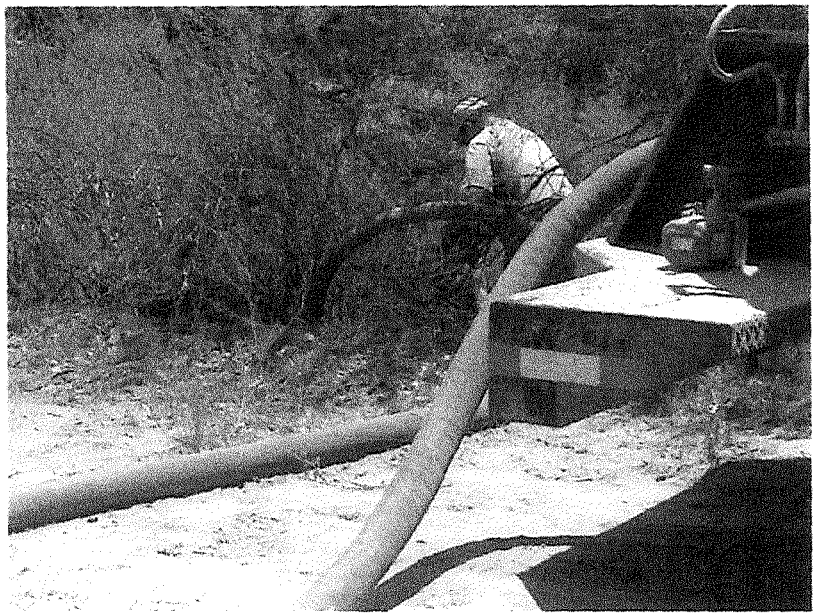




Careaga Lease response crews begin removing crude oil affected soil and free product from road	**Phoenix Energy, LLC**	**Phoenix Energy, LLC – Careaga Oil and Gas Lease** **Careaga 37 Crude Oil Release** **Orcutt Field – Careaga Oil and Gas Lease** **Santa Barbara County, CA**

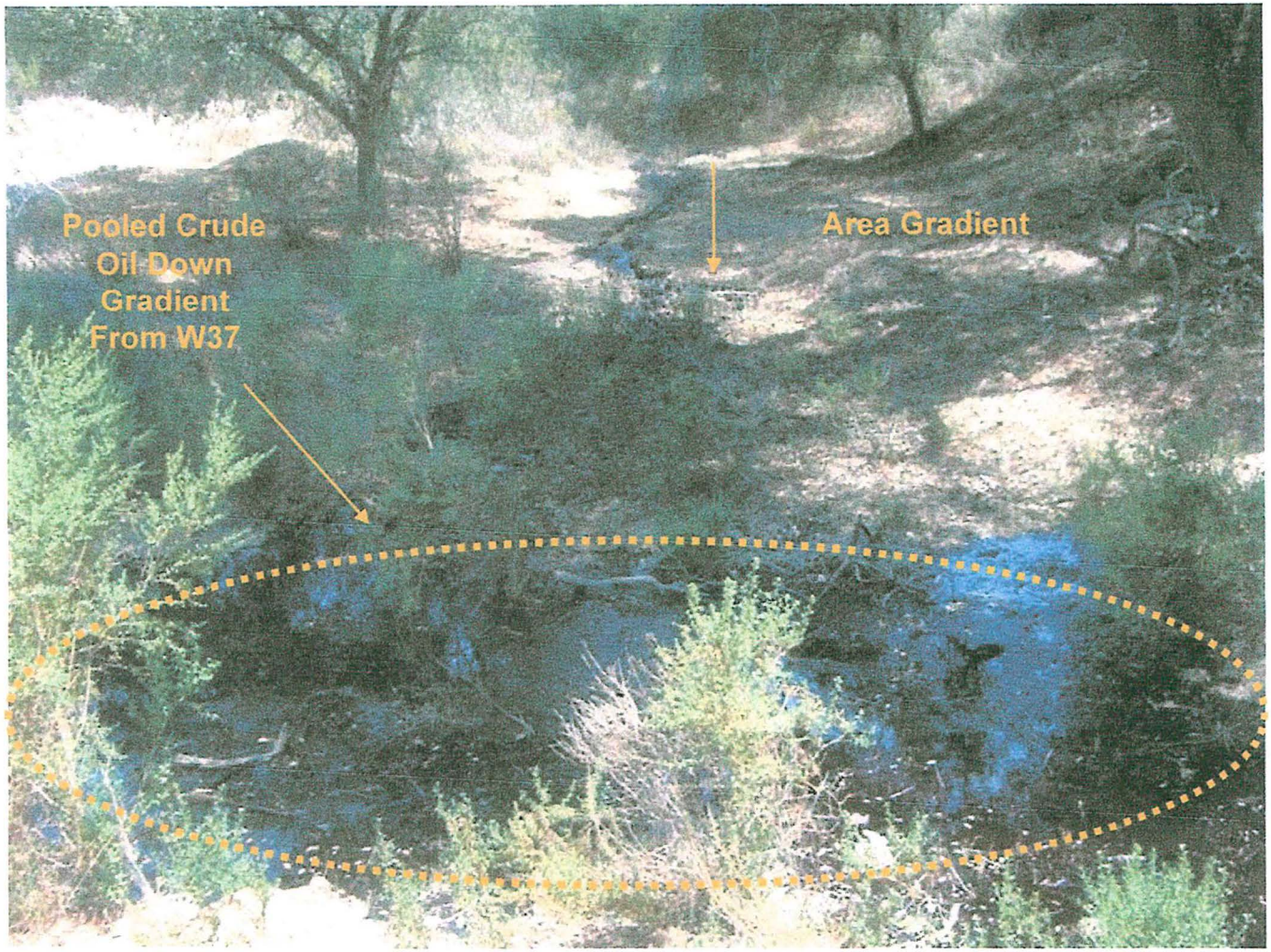
Careaga 37
Crude Oil Release
August 3, 2007





Collection of free product (crude oil) at end point of crude oil flow, down gradient of W37. Product collected utilizing a vacuum truck	**Phoenix Energy, LLC**	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

Careaga 37
Crude Oil Release
August 3, 2007



End point of crude oil release – Crude oil collects in a low point which includes a man made soil berm left over from historic oil and gas operations	Phoenix Energy, LLC	Phoenix Energy, LLC – Careaga Oil and Gas Lease Careaga 37 Crude Oil Release Orcutt Field – Careaga Oil and Gas Lease Santa Barbara County, CA

FAXED FROM: Energy Enterprises FAX NO.: 805 544-2159 Sep. 24 2006 09:29AM P1
FAXED OES
FAXED DOGGR 937-0673
FAXED Petroleum 934-6236

Kristy

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170

(805) 686-8183 sometime after 12 PM

1. Incident and Response Description

911 Called? ☐ Yes ☒ No

Date / Time Discovered 9/23/06 3PM	Date / Time Discharge 9/23/06	Discharge Stopped ☒ Yes ☐ No
Incident Reporting Date / Time 9/24/06 ~~8:30 AM~~ 9:15 AM		
Incident Business / Site Name Phoenix Energy, Careaga Lease		
Incident Address 7980 Graciosa Road, Careaga Lease		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS) well B-5		

Please describe the incident and indicate specific causes and area affected. Suspected hole in tubing, water came out from API ring at surface into the well cellar; cellar filled up & spilled over produced water.

Indicate actions to be taken to prevent similar spills from occurring in the future. Rig to be on well ~~9/25~~ 9/25, tubing ready to be replaced w/packer. (Suspected cause, will not know till tomorrow when tubing pulled. Tightened API ring studs 9/23; 9/24 still leaking, shut down lease until rig arrives

2. Administrative Information

Business Name Phoenix Energy Inc.	
Address 2275 Corbett Canyon Road, San Luis Obispo, CA 93401	
Supervisor in charge at time of incident Doug Chandler	Phone 331-3341
Contact Person Bruce Falkenhagen	Phone 544-2153

3. Chemical / Release Information

Call 911 for any releases into waterways, wetlands, or agriculture areas.

Chemical Produced water	Quantity 50 bbls ☐ GAL ☐ LBS ☐ FT³
Chemical	Quantity ☐ GAL ☐ LBS ☐ FT³
Chemical	Quantity ☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline: well cellar sucked out 9/23 as soon as vacuum truck got there (~4:15), tightened up flange studs ~~as~~; checked in AM, still leaking, shut in lease.

Completed By E. Falk Phone 544-2153 9:15 AM

Print Name Bruce Falkenhagen Title Manager Date and Time 9/24/06 ~~8:30 AM~~

Santa Barbara County Fire Department Protection Services Division Use Only

Date Received 9/25/06	Time 05:00	OES Control #	CIR # N-298-06
Received By Ron Wynn		Assigned To Kristy Treur	ER ☐ Yes ☐ No
Date / Time Reported to 911		Late Report ☐ Yes ☒ No	Incident #
From 911 Dispatch ☐ Yes ☒ No	Dispatch Requested HMU Respond ☐ Yes ☒ No		Time of ~~Dispatch~~ Request
Time HMU Responding	Time On Scene	Time Back in Service	☐ Joint ☐ Multi-Agency
Prop 65 ☒ Yes ☐ No	Date/Time to HCS 9/25/06 07:54	Date/Time to County OES 9/25/06 07:54	
Material		Volume	
Hazard		Evacuation/Access Restricted ☐ Yes ☐ No	

Current Status: ☐ Clean-Up Underway ☐ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

Comments

Notification Checklist — Code 20 ☐ Yes ☐ No ☐ Unknown

☒ County OES ☐ State OES Response ☒ County Petroleum ☒ State DOGGR ☐ County Ag Comm ☐ State Fish & Game ☐ Local Fire ☐ Road Dept ☐ State RWQCB ☐ APCD ☐ CHP ☒ EHS ☐ Cal Trans ☐ Cal OSHA ☐ DTSC

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division, Follow-up with telephone verification to 686-8170
(805) 686-8183

1. INCIDENT AND RESPONSE DESCRIPTION

911 CALLED? ☐ Yes ☐ No

Date / Time Discovered 9/29/06 4:30PM	Date / Time Discharge 9/29/06 4:30 PM
Discharge Stopped ☒ Yes ☐ No	
Incident Reporting Date / Time 9/30/06 10:20 AM	
Incident Business / Site Name Phoenix Energy - Careaga Lease	
Incident Address 7960 Graciosa Road, Carrega Lease, Orcutt	
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS) Well B-5	
Please describe the incident and indicate specific causes and area affected. well B-5 Blow off of air in line when starting up well. B-5 well cellar & surrounding area	
Indicate actions to be taken to prevent similar spills from occurring in the future. Nothing. Standard operation. Blow off of air w/entrained produced water requid to operate well. Most fluid contained in cellar	

2. ADMINISTRATIVE INFORMATION

Business Name Phoenix Energy, Inc.	
Address [redacted] 2275 Corbett Canyon Road, San Luis Obispo, CA 93401	
Supervisor in charge at time of incident Doug Chandler	Phone 381-5341
Contact Person Bruce Falkenhagen	Phone 544-2155

3. CHEMICAL / RELEASE INFORMATION

CALL 911 FOR ANY RELEASES INTO WATERWAYS, WETLANDS, OR AGRICULTURE AREAS.

Chemical Produced water	Quantity 10	☒ GAL ☐ LBS ☐ FT³
Chemical ~~Crude oil~~ NO crude oil	Quantity	☐ GAL ☐ LBS ☐ FT³
Chemical	Quantity	☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline: THIS REPORT MADE DUE TO FIRE DEPT'S REQUIREMENT TO REPORT EVERY RELEASE, NO MATTER HOW SMALL
Rake, mix with onsite dirt

Completed By [signature] Phone 544-2152
Print Name Bruce Falkenhagen Title Manager Date and Time 9/30/06 10:30AM

SANTA BARBARA COUNTY FIRE DEPARTMENT PROTECTION SERVICES DIVISION USE ONLY

Date Received 10/2/06	Time 0950	OES Control #	CIR # N-313
Received By McCaw		Assigned To McCaw	ER ☐ Yes ☐ No
Date / Time Reported to 911 N/A		Late Report ☐ Yes ☒ No	INCIDENT #
From 911 Dispatch ☐ Yes ☒ No	Dispatch Requested HMU Respond ☐ Yes ☒ No		Time of Dispatch Request 0950
Time HMU Responding 1000	Time On Scene N/A	Time Back in Service N/A	☐ Joint ☐ Multi-Agency
PROP 65 ☒ YES ☐ No	DATE/TIME TO HCS 10/2/06 1338	DATE/TIME TO COUNTY OES 10/2/06 1340	
MATERIAL Produced water		VOLUME 10 gal.	
HAZARD Toxic		EVACUATION/ACCESS RESTRICTED ☒ YES ☐ No	

Current Status: ☐ Clean-Up Underway ☒ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

COMMENTS

FAXED (934-6286) FAXED 8485 FAXED OES

RECEIVED OCT 2 2006 PETRO FIRE DEPT

NOTIFICATION CHECKLIST: ☒ COUNTY OES ☐ STATE OES RESPONSE | CODE 20 ☒ YES ☐ NO ☐ UNKNOWN | ☒ COUNTY PETROLEUM ☐ STATE DOGGR | ☐ COUNTY AG COMM ☐ STATE FISH & GAME | ☐ LOCAL FIRE _____ ☐ ROAD DEPT ☐ STATE RWQCB | ☐ APCO ☐ CHP ☐ EHS | ☐ CAL TRANS ☐ CAL OSHA ☐ DTSC

FAXED 8485 FAXED OES FAXED

copy to Treur

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170

(805) 686-8183

FAXED (to Patterson 934-6286)

1. Incident and Response Description

911 Called? ☐ Yes ☒ No

Date / Time Discovered 10/4/06 3PM	Date / Time Discharge 10/4/06	Discharge Stopped ☒ Yes ☐ No
Incident Reporting Date / Time 10/5/06 11:20 AM		
Incident Business / Site Name Phoenix Energy - Careaga Lease		
Incident Address 7980 Graciosa Road, Careaga Lease, Orcutt		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS) well B-5		

Please describe the incident and indicate specific causes and area affected. ~~#~~ water drip into B-5 cellar - Leak from fitting.

Indicate actions to be taken to prevent similar spills from occurring in the future. Very slow water drip into cellar, ~~#~~ all contained in cellar. well depressurized, collar welded on to nipple.

2. Administrative Information

Business Name Phoenix Energy Inc.	
Address ~~[illegible]~~ 2275 Corbett Canyon Road, San Luis Obispo, CA 93401	
Supervisor in charge at time of incident Doug Chandler	Phone 331-5341
Contact Person Bruce Falkenhagen	Phone 544-2153

3. Chemical / Release Information

Call 911 for any releases into waterways, wetlands, or agriculture areas.

Chemical Produced water	Quantity 6 bbls ☐ GAL ☐ LBS ☐ FT³
Chemical Crude oil	Quantity -0- ☐ GAL ☐ LBS ☐ FT³
Chemical	Quantity ☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline: THIS REPORT MADE DUE TO FIRE DEPT'S REQUIREMENT TO REPORT EVERY RELEASE, NO MATTER HOW SMALL. Produced water contained in cellar, no clean-up req'd.

Completed By [signature] Phone 544-2153

Print Name Bruce Falkenhagen Title Manager Date and Time

Santa Barbara County Fire Department Protection Services Division Use Only

Date Received 10/5/06	Time	OES Control #	CIR # N-327
Received By McCaw		Assigned To Treur	ER ☐ Yes ☐ No
Date / Time Reported to 911		Late Report ☐ Yes ☐ No	Incident #
From 911 Dispatch ☐ Yes ☐ No	Dispatch Requested HMU Respond ☐ Yes ☐ No		Time of Dispatch Request
Time HMU Responding	Time On Scene	Time Back in Service	☐ Joint ☐ Multi-Agency
Prop 65 ☒ Yes ☐ No	Date/Time to HCS 10/5/06 14:35	Date/Time to County OES 10/5/06 14:35	
Material Produced water		Volume 6 bbls	
Hazard toxic		Evacuation/Access Restricted ☐ Yes ☒ No	

Current Status: ☐ Clean-Up Underway ☒ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

Comments

10-6-06 - Spoke w/ responding party - produced H2O drained into cellar & leak - No further action req'd at this time - [illegible] 10/6/06

Notification Checklist — Code 20 ☒ Yes ☐ No ☐ Unknown

☒ County OES ☒ County Petroleum ☐ County Ag Comm ☐ Local Fire ☐ APCD ☐ Cal Trans
☐ State OES Response ☐ State DOGGR ☐ State Fish & Game ☐ Road Dept ☐ CHP ☐ Cal OSHA
☐ State RWQCB ☒ EHS ☐ DTSC

Sulka

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170

(805) 686-8183

1. INCIDENT AND RESPONSE DESCRIPTION

911 CALLED? ☐ YES ☒ NO

Date / Time Discovered 11/3/06 #3PM	Date / Time Discharge 11/3/06 3PM	Discharge Stopped ☒ Yes ☐ No
Incident Reporting Date / Time 11/3/06 4:40 PM		
Incident Business / Site Name Phoenix Energy - Careaga Lease		
Incident Address 7960 Graciosa Road, Careaga Lease, Orcutt		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS) well B-5		

Please describe the incident and indicate specific causes and area affected. Line that was shut at both ends, when opened, discharged some oil to the ground

Indicate actions to be taken to prevent similar spills from occurring in the future. Nothing can be done - routine work

2. ADMINISTRATIVE INFORMATION

Business Name	Phoenix Energy Inc.	
Address	2275 Corbett Canyon Road, San Luis Obispo, CA 93401	
Supervisor in charge at time of incident	Doug Chandler	Phone 331-5341
Contact Person	Bruce Falkenhagen	Phone 544-2153

3. CHEMICAL / RELEASE INFORMATION

CALL 911 FOR ANY RELEASES INTO WATERWAYS, WETLANDS, OR AGRICULTURE AREAS.

Chemical	Produced water	Quantity ☐ GAL ☐ LBS ☐ FT³
Chemical	Crude oil	Quantity 2 ☒ GAL ☐ LBS ☐ FT³
Chemical		Quantity ☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline: THIS REPORT MADE DUE TO FIRE DEPT'S REQUIREMENT TO REPORT EVERY RELEASE, NO MATTER HOW SMALL mixed with dirt

Completed By: [signature] Phone 544-2153

Print Name Bruce Falkenhagen Title Manager Date and Time 11/3/06 4:40 PM

SANTA BARBARA COUNTY FIRE DEPARTMENT PROTECTION SERVICES DIVISION USE ONLY

Date Received 11/6/06	Time 05:00	OES Control #	CIR # N-365
Received By Wynn	Assigned To McCaw		ER ☐ Yes ☐ No
Date / Time Reported to 911	Late Report ☐ Yes ☒ No		INCIDENT #
From 911 Dispatch ☐ Yes ☒ No	Dispatch Requested HMU Respond ☐ Yes ☒ No		Time of Dispatch Request 0945
Time HMU Responding 0945	Time On Scene	Time Back in Service	☐ Joint ☐ Multi-Agency
PROP 65 ☒ YES ☐ NO	DATE/TIME TO HCS 11/6/06 09:45	DATE/TIME TO COUNTY OES 11/6/06 09:45	
MATERIAL Crude oil		VOLUME 2 gal.	
HAZARD combustible		EVACUATION/ACCESS RESTRICTED ☒ YES ☐ NO	

Current Status: ☐ Clean-Up Underway ☒ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

COMMENTS

NOTIFICATION CHECKLIST: ☒ COUNTY OES ☐ STATE OES RESPONSE — CODE 20 ☒ YES ☐ NO ☐ UNKNOWN — ☒ COUNTY PETROLEUM ☐ STATE DOGGR — ☐ COUNTY AG COMM ☐ STATE FISH & GAME — ☐ LOCAL FIRE ☐ ROAD DEPT ☐ STATE RWQCB — ☐ APCD ☐ CHP ☒ EHS — ☐ CAL TRANS ☐ CAL OSHA ☐ DTSC

FAXED 8485 FAXED OES FAXED Co. Petroleum 0220 11-06-06

FROM : Energy Enterprises FAX NO. : 805 544-2159 Nov. 04 2006 04:41PM P1/2

Sulka

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170

(805) 686-8183

1. INCIDENT AND RESPONSE DESCRIPTION

911 CALLED? ☐ YES ☒ NO

Date / Time Discovered 11/3/06	Date / Time Discharge 11/3/06 noon	Discharge Stopped ☒ Yes ☐ No
Incident Reporting Date / Time	11/3/06 4:30 PM	
Incident Business / Site Name	Phoenix Energy - Careaga Lease	
Incident Address	7900 Graciosa Road, Careaga Lease Area	
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)	well #35	

Please describe the incident and indicate specific causes and area affected.

Stuffing box leak, ground around wellhead

Indicate actions to be taken to prevent similar spills from occurring in the future.

changed packing - normal oilfield occurrence.

2. ADMINISTRATIVE INFORMATION

Business Name	Phoenix Energy, Inc.	
Address	2275 Corbett Canyon Road, San Luis Obispo, CA 93401	
Supervisor in charge at time of incident	Doug Chandler	Phone 331-5341
Contact Person	Bruce Falkenhagen	Phone 544-2153

3. CHEMICAL / RELEASE INFORMATION

CALL 911 FOR ANY RELEASES INTO WATERWAYS, WETLANDS, OR AGRICULTURE AREAS.

Chemical	Produced water	Quantity ☐ GAL ☐ LBS ☐ FT³
Chemical	Crude oil	Quantity 3 ☒ GAL ☐ LBS ☐ FT³
Chemical		Quantity ☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline: THIS REPORT MADE DUE TO FIRE DEPT'S REQUIREMENT TO REPORT EVERY RELEASE, NO MATTER HOW SMALL

mixed with dirt

Completed By [signature] Phone 544-2153

Print Name Bruce Falkenhagen Title Manager Date and Time 11/3/06 - 4:30 PM

SANTA BARBARA COUNTY FIRE DEPARTMENT PROTECTION SERVICES DIVISION USE ONLY

Date Received 11/6/06	Time 05:00	OES Control #	CIR # N-364
Received By Wynn		Assigned To M Cau	ER ☐ Yes ☐ No
Date / Time Reported to 911		Late Report ☐ Yes ☒ No	INCIDENT #
From 911 Dispatch ☐ Yes ☒ No	Dispatch Requested HMU Respond ☐ Yes ☒ No		Time of ~~Dispatch~~ Request 0915
Time HMU Responding 0915	Time On Scene	Time Back In Service	☐ Joint ☐ Multi-Agency
PROP 65 ☒ Yes ☐ No	DATE/TIME TO HCS 11/6/06 09:45	DATE/TIME TO COUNTY OES 11/6/06 09:45	
MATERIAL Crude oil		VOLUME 3 gal.	
HAZARD combustible		EVACUATION/ACCESS RESTRICTED ☒ Yes ☐ No	

Current Status: ☐ Clean-Up Underway ☒ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☑ Investigation

RECEIVED NOV 6 2006 PETROLEUM DEPT.

COMMENTS

NOTIFICATION CHECKLIST: CODE 20 ☒ YES ☐ NO ☐ UNKNOWN; ☐ COUNTY OES; ☒ COUNTY PETROLEUM; ☐ COUNTY AG COMM; ☐ LOCAL FIRE ____; ☐ ROAD DEPT; ☐ APCD; ☐ CHP; ☐ CAL TRANS; ☐ STATE OES RESPONSE; ☐ STATE DOGGR; ☐ STATE FISH & GAME; ☐ STATE RWQCB; ☒ EHS; ☐ CAL OSHA; ☐ DTSC

FAXED FAXED FAXED

cc: Petroleum (934-6296)

Hazardous Materials Minor Spill and Release Incident Report Form

Approved Jointly by CAER (Community Awareness & Emergency Response) and Santa Barbara County Fire Chiefs

Fax Completed Report to Santa Barbara County Fire Department Protection Services Division. Follow-up with telephone verification to 686-8170

(805) 686-8183

1. INCIDENT AND RESPONSE DESCRIPTION

911 CALLED? ☐ YES ☐ NO

Date / Time Discovered 9/29/06 5PM	Date / Time Discharge 9/29/06 5PM	Discharge Stopped ☒ Yes ☐ No
Incident Reporting Date / Time 9/30/06 10:20AM		
Incident Business / Site Name Phoenix Energy - Careaga Lease		
Incident Address 7920 Graciosa Road, Careaga Lease Area		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS) well # 45		

Please describe the incident and indicate specific causes and area affected. Stuffing box leak as well started up from being down 1 week. Wellhead area

Indicate actions to be taken to prevent similar spills from occurring in the future. Nothing. Standard operation

2. ADMINISTRATIVE INFORMATION

Business Name	Phoenix Energy, Inc.	
Address	2275 Corbett Canyon Road, San Luis Obispo, CA 93401	
Supervisor in charge at time of incident	Doug Chandler	Phone 331-5341
Contact Person	Bruce Falkenhagen	Phone 544-2153

3. CHEMICAL / RELEASE INFORMATION

CALL 911 FOR ANY RELEASES INTO WATERWAYS, WETLANDS, OR AGRICULTURE AREAS.

Chemical	Produced water	Quantity ☐ GAL ☐ LBS ☐ FT³
Chemical	Crude oil	Quantity 0.5 ☒ GAL ☐ LBS ☐ FT³
Chemical		Quantity ☐ GAL ☐ LBS ☐ FT³

Clean-Up Procedures & Timeline: THIS REPORT MADE DUE TO FIRE DEPT'S REQUIREMENT TO REPORT EVERY RELEASE, NO MATTER HOW SMALL

Move, mix with onsite dirt.

Completed By		Phone 544-2153
Print Name Bruce Falkenhagen	Title Manager	Date and Time 9/30/06 10:20AM

SANTA BARBARA COUNTY FIRE DEPARTMENT PROTECTION SERVICES DIVISION USE ONLY

Date Received 10/2/06	Time 0950	OES Control #	CIR # N-314
Received By McCaw	Assigned To McCaw		ER ☐ Yes ☐ No
Date / Time Reported to 911 N/A	Late Report ☐ Yes ☒ No		INCIDENT #
From 911 Dispatch ☐ Yes ☒ No	Dispatch Requested HMU Respond ☐ Yes ☒ No		Time of Dispatch Request 0950
Time HMU Responding 1000	Time On Scene N/A	Time Back in Service N/A	☐ Joint ☐ Multi-Agency
PROP 65 ☒ Yes ☐ No	DATE/TIME TO HCS 10/2/06 1358	DATE/TIME TO COUNTY OES 10/2/06 1340	
MATERIAL Crude oil		VOLUME 0.5 gal.	
HAZARD		EVACUATION/ACCESS RESTRICTED ☐ Yes ☐ No	

Current Status: ☐ Clean-Up Underway ☒ Condition Abated ☐ No Action Taken ☐ Pollution Characterization Underway ☐ Preliminary Site Assessment Underway ☐ Other ☐ Case Closed (Clean-Up Completed or Unnecessary) ☐ Investigation

RECEIVED OCT - 2 2006 PETROLEUM DEPT

COMMENTS

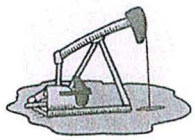
FAXED (934-6206) FAXED 8485 FAXED OES

NOTIFICATION CHECKLIST — CODE 20: ☒ Yes ☐ No ☐ Unknown

☒ County OES ☐ State OES Response ☒ County Petroleum ☐ State DOGGR ☐ County Ag Comm ☐ State Fish & Game ☐ Local Fire ☐ Road Dept ☐ State RWQCB ☐ APCD ☐ CHP ☐ EHS ☐ Cal Trans ☐ Cal OSHA ☐ DTSC

X CLEAN-UP COMPLETE
COMPLETION DATE 12-1-06

COUNTY OF SANTA BARBARA
PLANNING AND DEVELOPMENT DEPARTMENT
PETROLEUM OFFICE
624 W. Foster Road
Santa Maria, CA 93455
(805) 934-6128
(805) 934-6286 Fax



OIL SPILL REPORT

Date and Time Spill was Reported: 9-22-06 **Reported by:** Bruce Falkenhagen

Oil Company: Phoenix Energy, Inc. **Phone:** 544-2153

Lease: Careaga Tank Battery, Orcutt

Location: 7980 Graciosa Rd., Orcutt

Cause of Spill: Pump leak @ temporary produced water baker tank, resulted in overflow of tank to tank battery area (outside of containment area). Failure analysis/CAER form to be submitted to our office within 72 hours.-Rec'd 9-22-06

Date & Time of Spill: Located approx. 8-3-06, reported to manager 9-19-06

SUBSTANCE:

X **Produced Water** 50-100 (unknown) **/BBL**

X **Oil** **/BBL**

Office Use Only
☐ Billed ☐Log___Initials
☐ Non-billable
X Date 9-25-06
X Original in Tank Battery File
X Copy in Company File, email operator
X Copy in Spill File
X Initials PM
☐ copy Supervisor
☐ Soils: email report to FPD/HMU Steve Nailor for RWQCB.

- **Confined to Location or Bermed Area:** **-Yes** **X-No** (Unknown-no impacts observed)
- **In Creek or Water Way:** **-Yes** **-No** (potential/unknown-no impacts observed)
- **Reported To DOGGR:** **X -Yes** **-No** (Jim Carnahan)

Action Taken: (General Notes) Temporary baker tank was removed from service and pump repaired. Operator has recently replaced existing 1K bbl. WW tank with new API 12B, 1K bbl. WW tank, now in service. Directed operator to re-route leaking 1" injection pump bleeder line to existing sump pit, remove oil-impacted soils S. of sump pit and investigate for potential contamination plume and test soils, in accordance with FPD recommendations/requirements and re-route fluids discharging from vapor recovery system to containment. Recommended berm installation around existing pumps/pits, currently outside of tank setting containment, to prevent potential migration of production fluids to creek/waterway, located to the South. Operator to return the site to pre-spill conditions, in accordance with good oilfield and standard industry practices. Operator to contact Petroleum within 10 days for re-inspections. Impacted soils are to be maintained in accordance with FPD/RWQCB requirements., FPD-Kristy Bosard.

X **Initial Site Visit Date & Time:** 9-25-06
X **Pictures:** attached to original report
X **Follow-up Site Visit Date:** 12-1-06

- **Date Action Taken:** 9-25-06
- **Comments:** OES#06-5666

Signature: Pam McNulty **Title:** Petroleum Inspector **Date:** 9-25-06

X Additional Pages attached to original
X Pictures Attached to original

RECEIVED
MAY 07 2008

BREITBURN

Orcutt Hill Oilfield

Oil Spill Prevention Control and Countermeasure Plan (SPCC Plan)

Prepared for:

BreitBurn Energy Company LLC
1555 Orcutt Hill Road
Orcutt, CA 93455

February, 2008

Prepared by:
Tracer ES&T
2325 Skyway Drive, Suite H
Santa Maria, CA 93454
(805) 346-6591

FA0013398 SPCC = PR0502364

FACILITY DESCRIPTION

Name of Facility: Orcutt Hill Oilfield

Type of Facility: Oil and Gas Production / Processing Facilities

Location of Facility / Field Office: Approximately three miles south of the town of Orcutt, CA Santa Barbara County.

Designated person accountable for oil spill prevention and reporting at facility:

Title: Superintendent

General Field Description

The Orcutt Hill Oilfield is an onshore crude oil and natural gas production, processing, storage, and transfer facility located in Northern Santa Barbara County. The field consists of 14 oil and gas leases/fee properties and approximately 280 production wells. The leases/fees are: Newlove, Fox, Graciosa, Folsom, Pinal, Dome, Hobbs, Squires, Hartnell, California Coast (Cal Coast), Rice Ranch, Kaiser, Getty Hobbs, and Harris. The leases/fees combined have a total of approximately seventy-nine (76) active producing wells and 56 active injection wells. Production has been present since the early 1900's.

A Compressor Plant, located within the Newlove Fee, provides gas handling services for the leases, including vapors from the casing vents. Produced emulsion from the active wells is piped to one of four tank battery facilities where the oil, water, and gas streams are separated. The four tank batteries are located at the Cal Coast Lease, the Pinal Fee and two at the Newlove Fee. In addition to the four tank batteries, one fixed-roof organic liquid storage tank is used throughout the field for temporary storage during maintenance and abandonment activities.

Location

The field consists of over 10,000 acres and is bounded on the north by an abandoned Texaco lease now developed by home sites; on the east by Highway 101; the south by White Oaks Vineyard, and on the west by Graciosa Road. Main access to the field is from the north via Rice Ranch Road; it can be accessed from US 101 to the east or State Highway 1 from the west.

Characteristics

Orcutt Hill Field is located on Graciosa Ridge in the Santa Maria Basin, approximately three miles south of the town of Orcutt in Santa Barbara County. This area is unpopulated and is used for the purpose of grazing cattle. Topography consists of rolling hills from 325 ft. to 1300 ft. in elevation covered mainly with trees, brush, and grass. Terrain is considered rough.

The Newlove Fee and Cal Coast Lease drain into tributaries of San Antonio Creek. Drainage from the Compressor Plant and Diatomite Facility drains toward the Pinal. The Pinal Fee, Dome Fee, Fox Lease and Hobbs Lease drainage is generally directed toward Pine Canyon and

Stubblefield Creek. The Rice Ranch Lease and the Newlove Fee properties drain to Solomon Canyon and Orcutt Creek.

BULK STORAGE INVENTORY

Tank inventories are listed by tank battery in the following tables. The tables list spill situations that could occur within the facility described therein. Maps and site plans for each of the batteries are included in Appendix B.

Cal Coast Tank Battery

SOURCE:TANKS/ VESSELS AND MATERIAL STORED	MAJOR TYPE OF FAILURE	TOTAL EST. QUANTITY[1]	RATE (BBLS/HR)	DIRECTION OF FLOW	SECONDARY CONTAINMENT
Wash Tank (crude oil and water)	Tank/Vessel Rupture	3,000 BBLS	40	Contained within bermed area	Berm
Stock Tank (crude oil)	Tank/Vessel Rupture	2,000 BBLS	40	Contained within bermed area	Berm
Stock Tank (crude oil)	Tank/Vessel Rupture	750 BBLS	40	Contained within bermed area	Berm
Source Water Tank (injection water)	Tank/Vessel Rupture	5,000 BBLS	40	Contained within bermed area	Berm
Lube Oil	Tank/Vessel Rupture	360 GAL.	N/A	Contained within curbed area	Curb & retention
Reclaimed Lube Oil	Tank/Vessel Rupture	360 GAL.	N/A	Contained within curbed area	Curb & retention
Production gathering and shipping pipelines	Line Break[2]	5 – 10 BBLS	1 - 5	On-site spill contained within bermed area	Large surface area sloping toward bermed area

Notes:
[1] Quantity reflects maximum operating capacity of largest vessel or tank and/or assumes 10 minutes for shutdown.
[2] Line ruptures could result from operations outside design parameters, corrosion, etc.

Newlove Tank Battery					
SOURCE:TANKS/ VESSELS AND MATERIAL STORED	**MAJOR TYPE OF FAILURE**	**TOTAL EST. QUANTITY [1]**	**RATE (BBLS/HR)**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
Wash Tanks (2-crude oil and water)	Tank/Vessel Rupture	3,000 BBLS	45	Contained within bermed area	Berm
Stock Tank (crude oil)	Tank/Vessel Rupture	3,000 BBLS	45	Contained within bermed area	Berm
Stock Tank (crude oil)	Tank/Vessel Rupture	1,000 BBLS	45	Contained within bermed area	Berm
Condensate	Tank/Vessel Rupture	750 BBLS	45	Contained within bermed area	Berm

Newlove Heavy Oil Tank Battery (Diatomite)					
SOURCE:TANKS/ VESSELS AND MATERIAL STORED	**MAJOR TYPE OF FAILURE**	**TOTAL EST. QUANTITY [1]**	**RATE (BBLS/HR)**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
Wash Tank	Tank/Vessel Rupture	5,480 BBLS	45	Contained within bermed area	Berm
Stock Tank (crude oil)	Tank/Vessel Rupture	2,100 BBLS	45	Contained within bermed area	Berm
Reject Oil Tank	Tank/Vessel Rupture	2,100 BBLS	45	Contained within bermed area	Berm
Produced Water Tank	Tank/Vessel Rupture	2,800 BBLS	45	Contained within bermed area	Berm

Notes:
[1] Quantity reflects maximum operating capacity of largest vessel or tank and/or assumes 10 minutes for shutdown.
[2] Line ruptures could result from operations outside design parameters, corrosion, etc.

Newlove Flats Tank Battery					
SOURCE:TANKS/ VESSELS AND MATERIAL STORED	**MAJOR TYPE OF FAILURE**	**TOTAL EST. QUANTITY** [1]	**RATE (BBLS/HR)**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
Fuel Vessel (condensate and water)	Tank/Vessel Rupture	205 BBLS	2	Contained within bermed area	Berm
Overflow Produced Water Tank (Source Tank)	Tank/Vessel Rupture	10,000 BBLS	45	Contained within bermed area	Berm
Lube Oil (2 tanks)	Tank/Vessel Rupture	300 BBLS 100 Gal.	N/A	Contained within curbed area	Curb & retention
Reclaimed lube oil	Tank/Vessel Rupture	500 GAL.	N/A	Contained within curbed area	Curb & retention
Production gathering and shipping pipelines	Line Break[2]	3 – 10 BBLS	1 - 5	On-site spill contained within bermed area	Large surface area sloping toward bermed area

Notes:

[1] Quantity reflects maximum operating capacity of largest vessel or tank and/or assumes 10 minutes for shutdown.
[2] Line ruptures could result from operations outside design parameters, corrosion, etc.

Newlove 67 Injection Facilities					
SOURCE:TANKS/ VESSELS AND MATERIAL STORED	**MAJOR TYPE OF FAILURE**	**TOTAL EST. QUANTITY [1]**	**RATE (BBLS/HR)**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
Lube Oil	Tank/Vessel Rupture	515 GAL.	45	Contained within curbed area	Curb/gutter/sump
Lube Oil	Tank/Vessel Rupture	55 GAL.	45	Contained within curbed area	Curb/gutter/sump
Reclaimed lube oil	Tank/Vessel Rupture	1500 GAL.	N/A	Contained within curbed area	Curb/gutter/sump
Reclaimed water and oil	Tank/Vessel Rupture	1050 GAL.	N/A	Contained within bermed area	Berm
Reclaimed water and oil	Tank/Vessel Rupture	1885 GAL.	N/A	Contained within bermed area	Berm
Reclaimed oil	Tank/Vessel Rupture	4240 GAL.	N/A	Contained within bermed area	Berm
Production gathering and shipping pipelines	Line Break[2]	3 – 10 BBLS	1 - 5	On-site spill contained within bermed area	Large surface area sloping toward bermed area

Notes:

[1] Quantity reflects maximum operating capacity of largest vessel or tank and/or assumes 10 minutes for shutdown.
[2] Line ruptures could result from operations outside design parameters, corrosion, etc.

Pinal Tank Battery					
SOURCE:TANKS/ VESSELS AND MATERIAL STORED	**MAJOR TYPE OF FAILURE**	**TOTAL EST. QUANTITY[1]**	**RATE (BBLS/HR)**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
Wash tank (crude oil and water)	Tank/Vessel Rupture	3,000 BBLS	45	Contained within bermed or walled area	Retention wall and berm
Stock tank (crude oil)	Tank/Vessel Rupture	3,000 BBLS	45	Contained within bermed or walled area	Retention wall and berm
Overflow tank (crude oil)	Tank/Vessel Rupture	2,000 BBLS	45	Contained within bermed or walled area	Retention wall and berm
Source Water tank (injection water)	Tank/Vessel Rupture	1,000 BBLS	45	Contained within bermed or walled area	Retention wall and berm
Lube oil tanks (3)	Tank/Vessel Rupture	450 GAL. 545 GAL. 485 GAL.	N/A	Contained within curbs	Curb & retention
Loading rack	Tank/Vessel Rupture	240 BBLS	265	Contained within curbs	Curb & retention
Source tank (injection water)	Tank/Vessel Rupture	5,000 BBLS	45	Contained within berms	Berm
Production gathering and shipping pipelines	Line Break[2]	5 – 10 BBLS	1 - 5	On-site spill contained within bermed or retained area	Large surface area sloping toward bermed or retained area

Notes:

[1] Quantity reflects maximum operating capacity of largest vessel or tank and/or assumes 10 minutes for shutdown.
[2] Line ruptures could result from operations outside design parameters, corrosion, etc.

Compressor Station					
Water Injection Holding Tank	Tank/Vessel Rupture	1,000 BBLS	45	Contained within bermed area	Berm
Diesel Tank (#2 Red Dye)	Tank/Vessel Rupture	10,000 GAL.	45	Contained within walled area	Retention wall
Diesel Tank (Highway Diesel)	Tank/Vessel Rupture	1,050 GAL.	N/A	Contained within basin area	Retention basin
Lube oil tank	Tank/Vessel Rupture	300 GAL.	N/A	Contained within bermed area	Berm
Lab Draw Tank	Tank/Vessel Rupture	200 GAL.	N/A	Contained within walled area	Retention basin
Lube oil shed (4 containers)	Tank/Vessel Rupture	55 GAL.	N/A	Contained in basin area	Retention basin
Unleaded Gasoline	Tank/Vessel Rupture	1,000 GAL.		Double Walled tank contained within bermed area	Double Walled tank
Production gathering and shipping pipelines	Line Break[2]	5 – 10 BBLS	1 - 5	On-site spill contained within bermed or retained area	Large surface area sloping toward bermed or retained area
Road Oil Tanks					
Stock Tank (Out of Service)	Tank/Vessel Rupture	1,000 BBLS	N/A	Contained within bermed area	Berm
Stock Tank (Compressor Plant Drains)	Tank/Vessel Rupture	200 BBL	N/A	Contained within bermed area	Berm

Notes:
[1] Quantity reflects maximum operating capacity of largest vessel or tank and/or assumes 10 minutes for shutdown.
[2] Line ruptures could result from operations outside design parameters, corrosion, etc.

Fox Injection Facility					
SOURCE:TANKS/ VESSELS AND MATERIAL STORED	**MAJOR TYPE OF FAILURE**	**TOTAL EST. QUANTITY[1]**	**RATE (BBLS/HR)**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
Injection tank (out of service)	Tank/Vessel Rupture	2,500 BBLS	45	Contained within bermed area	Berm
Lube oil (2)	Tank/Vessel Rupture	55 GAL. 55 GAL.	N/A	Contained within bermed area	Berm

Notes:
[1] Quantity reflects maximum operating capacity of largest vessel or tank and/or assumes 10 minutes for shutdown.
[2] Line ruptures could result from operations outside design parameters, corrosion, etc.

FIELD PRODUCTION TEST VESSELS AND GAS/OIL SEPARATORS					
LEASE ID[1]: SOURCE: TANKS/ VESSELS	**NEAREST WELL ID[1] and OIL GATHERING LINE (OGL)**	**TOTAL EST. QUANTITY[2] OF VESSEL AND MATERIAL STORED**	**MAJOR TYPE OF FAILURE**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
NL A-1 Test Vessel	NL 107 NL A-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
NL A-2 Test Vessel	NL 107 NL A-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
NL A-1 & NL A-2 Separator	NL 107 NL A-OGL	150 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
NL B-1 Test Vessel	NL 31 NL B-OGL	15 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
NL B-1 Separator	NL 31 NL B-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
NL C-1 Test Vessel	GRAC 10 NL C-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
NL D-1 Test Vessel	NL 58 NL D-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
NL D-1 Separator	NL 58 NL D-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
NL D-2 Test Vessel	NL 73 NL D-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
NL D-2 Separator	NL 73 NL D-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
NL F-1 Test Vessel	NL 69 NL F-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
NL F-2 Test Vessel	NL 69 NL F-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm

FIELD PRODUCTION TEST VESSELS AND GAS/OIL SEPARATORS					
LEASE ID[1]: SOURCE: TANKS/ VESSELS	**NEAREST WELL ID[1] and OIL GATHERING LINE (OGL)**	**TOTAL EST. QUANTITY[2] OF VESSEL AND MATERIAL STORED**	**MAJOR TYPE OF FAILURE**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
NL F-1 & F-2 Separator	NL 69 NL F-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
SQ H-1 Test Vessel	SQ 41 SQ H-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
SQ H-1 Separator	SQ 41 SQ H-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
CA I-1 Test Vessel	CA 16 (Inj) CA I-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
CA I-1 Separator	CA 16 (Inj) CA I-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
CA J-1 Test Vessel	CA 13 CA J-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
CA J-1 Separator	CA 13 CA J-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
SQ J-3 Test Vessel	SQ 18 CA J-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
SQ J-4 Test Vessel	SQ 18 CA J-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
SQ J-3 &4 Separator	SQ 18 CA J-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
PN K-1 Test Vessel	PN 37 PN K-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm of Tanks below
PN K-1 Separator	PN 37 PN K-OGL	150 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm of Tanks below

FIELD PRODUCTION TEST VESSELS AND GAS/OIL SEPARATORS					
LEASE ID[1]: SOURCE: TANKS/ VESSELS	**NEAREST WELL ID[1] and OIL GATHERING LINE (OGL)**	**TOTAL EST. QUANTITY[2] OF VESSEL AND MATERIAL STORED**	**MAJOR TYPE OF FAILURE**	**DIRECTION OF FLOW**	**SECONDARY CONTAINMENT**
PN L-1 Test Vessel	PN 7 PN L-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
PN L-2 Test Vessel	PN 7 PN L-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
PN L-1 & 2 Separator	PN 7 PN L-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
HO & DM M-1 Test Vessel	DM 2 PN M-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
HO & DM M-2 Test Vessel	DM 2 PN M-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
HO & DM M-1 & 2 Separator	DM 2 PN M-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm
FL N-1 Test Vessel	FL 5 PN N-OGL	12 BBLS throughput vessel	Vessel Rupture	Contained within bermed area	Berm
FL N-1 Separator	FL 5 PN N-OGL	15 BBLS oil, gas, condensate	Vessel Rupture	Contained within bermed area	Berm

[1] NL-Newlove Lease
SQ-Squires Lease
CA-Cal Coast Lease
PN-Pinal Lease
HO-Hobbs Lease
DM-Dome Lease
FL-Folsom Lease

SANTA BARBARA COUNTY CERTIFIED UNIFIED PROGRAM AGENCY

☐ 225 Camino del Remedio, Santa Barbara, CA 93110 (805) 681-4900 Fax (805) 681-4901

☒ 2125 S. Centerpointe Pkwy., Rm 333, Santa Maria, CA 93455 (805) 346-8460 (805) 346-8485

Aboveground Petroleum Storage Act (APSA) Inspection Report / Notice to Comply

Facility Name: Pacific Coast Energy Company LP Date: 9/20/2017

Site Address: 1555 Orcutt Hill Rd Phone #:

City: Santa Maria Inspected By: Aaron Gao

Facility Contact: John Fox CONSENT PROVIDED BY: John Fox

Purpose of Inspection: ☒ Routine ☐ Follow-Up ☐ New Permit ☐ Complaint ☐ Enforcement

Violation (V) classifications: Minor (M), Class II (2), Class 1 (1) (AUTHORITY HSC 25404)

Authority	V	1 2 M	Code of Federal Regulations (CFR) Title 40, Chapter 1, Subpart D, Part 112 California Health and Safety Code (HSC) Division 20, Chapter 6.67, Section 25270
			SPCC Facility: ☐ Tier I ☐ Tier II ☒ Non-Qualified
HSC §25270.6(b)	133		APSA Permit Fee Paid Valid
HSC §25270.6	410		Annual storage tank statement or HMBP submitted for storage tanks that exceed 10,000 gallons Yes
HSC §25270.8	401		Spill(s) of one barrel (42 gallons) or more reported to Cal EMA and CUPA
HSC §25270.4.5(b)(1)	332		Daily visual inspections conducted/documented at SPCC-exempt farm, nursery or construction site
HSC §25270.4.5(a)	101		SPCC Plan prepared and implemented Yes
CFR §112.3(e)(1)	108		Copy of the SPCC maintained on site (unstaffed facilities exempt) Yes
CFR §112.7	102		SPCC Plan has written approval by management at appropriate level of authority Yes
CFR §112.3(d)	103		Professional Engineer (PE) has certified SPCC Plan for Non-Qualified (>10,000 gal) facility Yes
CFR §112.3(g)	135		Tier I/II facility meets capacity / discharge conditions
CFR §112.5(b)	109		5 year review of SPCC Plan performed and documented Yes
CFR §112.5(a)	110		SPCC Plan amended within 6 months of change in facility design, construction, operation/maintenance
CFR §112.7(d)(1)	105		Spill Contingency Plan is complete (if claiming impracticability in lieu of secondary containment) Yes
CFR §112.7(a)(3)	115		Facility diagram is complete, accurate and maintained with Plan (Tier I Qualified Plan exempt)
CFR §112.7(a)(3)(i)-(vi)	(116)	M	Facility description is complete and accurate —
CFR §112.7(a)(4)	117		Discharge reporting procedures are accurate Yes
CFR §112.7(a)(5)	118		Discharge cleanup procedures are complete and appropriate for facility Yes
CFR §112.7(e)	121		Inspections & tests conducted & documented in accordance with written procedures Yes
CFR §112.7(f)(1)	201		Training on the SPCC Plan, regulations, spill prevention & response documented for all oil handlers Yes
CFR §112.7(f)(3)	123		Annual spill prevention briefings are conducted and documented Yes
			ALL Facilities
CFR §112.7(c)	120		Secondary containment system will prevent discharge from escaping containment before cleanup occurs Yes
CFR §112.7(g)	301		Access to oil handling and storage areas is controlled; drain valves are secured against unauthorized access Yes
			Onshore Facilities EXCLUDING Oil & Gas Production
CFR §112.8(b)(2)	305		Drainage from diked areas is restrained by valves of manual, open-and-closed design Yes
CFR §112.8(b)(1)	306		Rainwater within diked areas is inspected to ensure that its release will not cause a discharge Yes
CFR §112.8(b)(3)-(4)	308		Undiked areas with potential for discharge are engineered to drain into catchment basins or oil diversion system
CFR §112.8(c)(2)	310		Secondary containment provided for capacity of largest single container plus freeboard for precipitation Yes
CFR §112.8(c)(1)	312		Bulk container materials and construction are compatible with stored materials Yes
CFR §112.8(c)(6)	314		Inspections and tests of bulk containers are conducted by qualified person Yes
CFR §112.8(c)(5)	317		Corrosion protection is provided for partially buried or bunkered metallic tanks N/A
CFR §112.8(c)(8)(i)-(iv)	319		Container installation is properly engineered with high liquid level alarms and shut-off devices
CFR §112.8(c)(11)	320		Mobile/portable oil storage containers positioned to prevent a discharge & provided with secondary containment* * Mobile refuelers and non-transportation-related tank trucks exempt from secondary containment requirement
CFR §112.8(d)(4)	326		Inspections of aboveground piping and valves are regularly documented Yes
CFR §112.8(d)(2)	328		Not-in-service or standby piping is capped or blinded, and labelled as to origin Yes
CFR §112.8(d)(5)	331		Vehicles are warned to prevent damage to aboveground piping

Aboveground Petroleum Storage Act (APSA) Inspection Report / Notice to Comply

Facility Name: Pacific Coast Energy Company LP Date: 9/20/2017

Site Address: 1555 Orcutt Hill Rd

OBSERVATIONS / CORRECTIVE ACTION:

On site today to conduct an APSA inspection.
SPCC plan prepared and implemented with PE certification.
SPCC last reviewed / update in September 2017.
Monthly and annually inspections are conducted and documented.
Tanks are being tested following API 653 and 510 standards.
Last tests were conducted and documented in 2014.
Training on SPCC plan and annual spill prevention briefings are conducted and documented for oil handlers.
All APSA regulated tanks / containers have secondary containments such as dirt berms, steel / concrete containments and tub / tarp containment.
Drain valves are restrained by open and closed design.

(116) Failed to report 2 diesel generators (one 70 gal and one 140 gal) both with concrete secondary containments.
Two lube oil tanks (200 gal each) are no longer at Pinal Tank Battery.
Facility description must be complete and accurate.
Add demulsifier containers at various locations of the facility that are in 55 gal or larger containers to the SPCC plan.
Update SPCC plan accordingly within 30 days.

Add CUPA number 805-681-4927 to the notification list.

☐ No Violations Noted At Time of Inspection

Signature of Responsible Party: NTC Print Name: John Fox Date: 9/20/2017

☐ **~~NOTICE OF VIOLATION~~: The violations noted above must be corrected by:** Date: 10/20/2017

POST INSPECTION INSTRUCTIONS:

The marked items represent violations of the California Health and Safety Code (HSC) and California Code of Regulations. A re-inspection may occur at any time on or after the compliance deadline to verify correction of violations. **All violations are to be corrected and a copy of this form signed and returned within 35 days**, certifying the correction of these violations (HSC 25404.1.2.). Failure to correct violations by the compliance deadline will result in further enforcement action, including, but not limited to, a re-inspection fee, fines and/or suspension or revocation of your Unified Program Facility Permit.

COMPLIANCE CERTIFICATION: As the owner / operator of the above subject business, I certify that all the violations cited above have been corrected.

(Signature) _____ (Print Name) _____ (Date) _____

SANTA BARBARA COUNTY
CERTIFIED UNIFIED PROGRAM AGENCY

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HAZARDOUS MATERIALS BUSINESS PLAN (HMBP) – INSPECTION REPORT
NOTICE TO COMPLY / NOTICE OF VIOLATION

Facility Name: AT&T Mobility - MT SOLOMON (USID12551) Date: 6/10/2025

Site Address: Mt Solomon At Hwy 101 CERS ID: 10208506

City: Santa Maria, CA 93454 Inspected By: Kristen Hummel

Facility Contact: Brennan Mahoney (Signature): Kristen Hummel

Consent Provided By: Brennan Mahoney Title: Site Manager For: ☒ Photos ☒ Sampling ☒ Document Review

Purpose of Inspection: ☒ Routine ☐ Follow-Up ☐ New Permit ☐ Complaint ☐ Enforcement

Violation Classifications: Minor (**M**), Class II (**2**), Class I (**1**) *(Authority: HSC 25404)*

Violation #	1 2 M	Violation Description
1010001		Failure to establish and implement an HMBP when storing/handling hazardous materials at or above the reportable threshold quantities. HSC 6.95 25507
1010002		Failure to complete and electronically submit an HMBP when storing/handling hazardous materials at or above the reportable threshold quantities. HSC 6.95 25505, 25508(a)(1)
1010017		Failure to have an HMBP readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training. HSC 6.95 25505(c)
1010008		Failure to annually review and electronically submit the HMBP on or before the annual due date and certify that it is complete, accurate, and in compliance with EPCRA. HSC 6.95 25508.2 Date of last CERS inventory submittal: 5/21/2025 Accepted? ☒ Yes ☐ No
1010011		Failure to notify property owner in writing that the business is subject to the HMBP program and has complied with its provisions. HSC 6.95 25505.1
1010012		Lessee provided copy of HMBP to owner within 5 days after request. HSC 6.95 25505.1
1010006		Failure to update HMBP within 30 days when one of the following occurs: A 100% or more increase in the quantity of a previously disclosed material; handling of a previously undisclosed hazardous material at or above reportable quantities; change of business address, ownership, or business name; A substantial change in the handler's operations that requires modification to any portion of the HMBP. HSC 6.95 25508.1(a)-(f)
1040001		**Failure to report a release or threatened release of a hazardous material to the unified program agency and Cal OES. HSC 6.95 25510(a); 19 CCR, Article 4, 2631**
1010003		Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. 19 CCR 5030.3(a)(1); HSC 6.95 25508(a)(1), 25508(a)(3)
1010004		Failure to submit complete hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. HSC 6.95 25506, 25505(a)(1), 25508(a)(1), 25508(a)(3)
1010005		Failure to complete and electronically submit a site map with all required content. HSC 25505(a)(2), 25508(a)(1), 25508(a)(3)
1010010		Failure to establish and/or electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material. HSC 6.95 25505(a)(3), 25508(a)(1), 25508(a)(3); 19 CCR 5030.9 (*Verify agricultural handler exemption HSC 25507.1)
1020001		Failure to establish and/or electronically submit an adequate training program, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled. HSC 6.95 25505(a)(4), 25508(a)(1), 25508(a)(3); 19 CCR 5030.10(a) (*Verify agricultural handler exemption HSC 25507.1)
1020002		Failure to provide initial and annual training to 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. HSC 6.95 25505(a)(4); 19 CCR 5030.10(b)
1010018		Failure to complete and electronically submit an HMBP when handling a consumer product that is a hazardous material in a quantity equal to or greater than the reportable threshold, stored at a facility that manufactures the product, or is a warehouse or distribution center with no direct sales to consumers, or where the product is dispensed on the retail premises. HSC 6.95 25507(b)5(B)(i), 25508(a)(1)
1010019		Failure to complete and submit an HMBP when handling a consumer product that is a hazardous material at a retail establishment in a quantity equal to or greater than the reportable threshold if the product is **not intended** for personal, family, or household purposes, or is not present in the same form, concentration, or quantity as a product prepackaged for distribution to a consumer for personal, family, or household purposes or the product has a NFPA or HMIS rating of 3 or 4 and is stored, at any time, in quantities equal to, or greater than, 165 gallons for a liquid, 600 cubic feet for a compressed gas, or 1,500 pounds for a solid; or the product poses a significant potential hazard, and the UPA requires the product to be reported. HSC 6.95 25507(b)5(B)(ii), 25508(a)(1)
1010020		Failure to provide sale or provision records, within 5 days of a request from an UPA. HSC 6.95 25507.5
1010021		Failure of a handler to notify and disclose a hazardous material transfer, when directed by an UPA. HSC 6.95 25508.3
1015		Failure to acquire a CUPA permit. County Ordinance 18C-35, 18C-41, 18C-46

OBSERVATIONS / CORRECTIVE ACTION:

Onsite to conduct a Hazardous Materials Business Plan (HMBP) inspection on 6/10/2025. Consent for this inspection is granted by Brennan Mahoney. Inspection conducted by Hazardous Materials Specialist, Kristen Hummel.

Hazardous materials inventory was accurate at time of inspection.

- Diesel 190 gallons

Site map was accurate at time of inspection.

Emergency response contacts are up to date.

Employee training is up to date and records of last three years on file.

A copy of this inspection report was sent via email on 6/11/2025

☒ No Violations Noted at Time of Inspection ☐ NOTICE TO COMPLY (Minor Violations) ☐ NOTICE OF VIOLATION (Class I & II)

The marked items represent violations of the California Health and Safety Code, Chapter 6.95 (6.95 Cal. H&SC) and Title 19 California Code of Regulations (19 CCR). A re-inspection may occur at any time on or after the compliance deadline to verify correction of violations. Failure to correct violations by the compliance deadline will result in further enforcement action, including, but not limited to, re-inspection fee, fines, formal enforcement and/or suspension or revocation of your Unified Program Facility Permit. **All violations are to be corrected and a copy of this form and accompanying requested documentation, signed and returned within 35 days, certifying the correction of these violations.**

Signature of Responsible Party: SENT VIA EMAIL Print Name: Brennan Mahoney Date: 6/10/2025

Inspection report emailed to: bm800e@att.com

The violations noted above must be corrected by: N/A

Compliance Certification: As the owner/operator of the above subject business, I certify that all of the violations cited above have been corrected.

N/A

Signature	Print Name	Date

Department of Toxic Substances Control

Department of Toxic Substances Control

Yana Garcia
Secretary for
Environmental Protection

Katherine M. Butler, MPH, Director
700 Heinz Avenue
Berkeley, California 94710-2721
https://dtsc.ca.gov/

Gavin Newsom
Governor

July 10, 2025

Heather Fields
hfields@waterstone-env.com
714-414-1122, ext. 226

Public Records Request Number: PR2-063025-08

Locations: 1555 Orcutt Hill Rd.; 7930 – 7980 Graciosa Rd., Orcutt, CA 93455; APN: 101-020-085; -086; -087; -074

Dear Ms. Fields:

The Department of Toxic Substances Control (DTSC) received your email of June 30th, 2025, requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to this request. This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS unit

by email at HWTSadmn@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

Many of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 510-540-2591 or via email at Berkeleyfileroom@dtsc.ca.gov.

Sincerely,

Carl Rose

Carl Rose
Regional Records Coordinator
DTSC Berkeley Regional Office

Department of Toxic Substances Control

Yana Garcia
Secretary for
Environmental Protection

Katherine M. Butler, MPH, Director
9211 Oakdale Avenue
Chatsworth, California 91311
https://dtsc.ca.gov/

Gavin Newsom
Governor

July 3, 2025

Heather Fields
Waterstone Environmental, Inc.
hfields@waterstone-env.com

Public Records Request Number: PR3-063025-11

Locations: 1555 Orcutt Hill Road, Orcutt, CA 93455
7930-7980 Graciosa Road, Orcutt, CA 93455
APNs: 101-020-085, 101-020-086, and 101-020-087
(Used to be a part of a larger parcel with APN 101-020-074)

Dear Heather Fields:

On June 30, 2025, the Department of Toxic Substances Control (DTSC) received your email of the same date requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

However, DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to **1555 Orcutt Hill Road.** This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov. If you are interested in retrieving detailed reports, additional charges may apply. Please contact

the HWTS unit by email at HWTSadmn@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

Many of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSC's data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 818-938-8620 or via email at ChatsworthFileRoom@dtsc.ca.gov.

Respectfully,

Nicole Griffin

Nicole Griffin
Records Mgmt. Asst. Coordinator

Department of Toxic Substances Control

Yana Garcia
Secretary for
Environmental Protection

Katherine M. Butler, MPH, Director
1515 Tollhouse Road
Clovis, California 93611
https://dtsc.ca.gov/

Gavin Newsom
Governor

July 10, 2025

Heather Fields
Waterstone Environmental, Inc.
hfields@waterstone-env.com

Public Records Request Number: 5-063025-02
Location(s): 1555 Orcutt Hill Road
Orcutt, California 93455

7930 – 7980 Graciosa Road
Orcutt, California 93455

APN's: 101-020-085, 101-020-086, and 101-020-087
(Used to be a part of a larger parcel with APN 101-020-074)

Dear Requestor:

On June 30, 2025 the Department of Toxic Substances Control (DTSC) received your email of June 30, 2025 requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll

find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 559-578-8175 or via email at ClovisFileRoom@dtsc.ca.gov.

Sincerely,
Shelly Combs
Shelly Combs
Regional Records Coordinator

Santa Barbara County Air Pollution Control District

air pollution control district
SANTA BARBARA COUNTY

Permit to Operate 11704 - R6

EQUIPMENT OWNER:

Verizon Wireless, Inc.

EQUIPMENT OPERATOR:

Verizon Wireless, Inc.

EQUIPMENT LOCATION:

Solomon Peak, Santa Maria

STATIONARY SOURCE/FACILITY:

Verizon Wireless - Solomon Peak

SSID: 10450
FID: 10581

EQUIPMENT DESCRIPTION:

In-use diesel-fired emergency standby generator engine(s) as listed in the table at the end of this permit.

PROJECT/PROCESS DESCRIPTION:

The generator(s) subject to this permit provide electrical backup power in times of emergencies as defined by the State's *Airborne Toxics Control Measure for Stationary Compression Ignition Engines* (ATCM). This ATCM (CCR Section 93115, Title 17) limits annual generator maintenance and testing hours to 20 hours per year with no limitation for emergency use. Definitions of the terms "*maintenance and testing*" and "*emergency use*" are found in the ATCM and the District's webpage http://www.ourair.org/dice-atcm/.

CONDITIONS:

1. **Emission Limitations.** The mass emissions from the equipment permitted herein shall not exceed the values listed in Table 1. Compliance shall be based on the operational, monitoring, recordkeeping and reporting conditions of this permit.

2. **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions. The equipment may operate as many hours as necessary for emergency use, as defined in the ATCM[1].

   a. Maintenance & Testing Use Limit: The in-use stationary emergency standby diesel-fueled engine(s) shall not be operated for more than the hours listed in the attached equipment list for maintenance and testing[2] purposes.

   b. Impending Rotating Outage Use: The in-use stationary emergency standby diesel-fueled engine(s) may be operated in response to the notification of an impending rotating outage if all the conditions cited in the ATCM are met.

   c. Fuel and Fuel Additive Requirements: The permittee may only add fuel and/or fuel additives that comply with the ATCM to the engine or to any fuel tank directly attached to the engine.

3. **Monitoring.** The equipment permitted herein is subject to the following monitoring requirements:

   a. Non-Resettable Hour Meter: Each in-use stationary emergency standby diesel-fueled engine(s) shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District has determined (in writing) that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history.

4. **Recordkeeping.** The permittee shall record and maintain the information listed below. Log entries shall be retained for a minimum of 36 months from the date of entry. Log entries made within 24 months of the most recent entry shall be retained on-site, either at a central location or at the engine's location and made immediately available to the District staff upon request. Log entries made from 25 to 36 months from most recent entry shall be made available to District staff within 5 working days from request. District Form ENF-92 (*Diesel-Fired Emergency Standby Engine Recordkeeping Form*) can be used for this requirement.

   a. emergency use hours of operation.

   b. maintenance and testing hours of operation.

   c. hours of operation for emission testing to show compliance with the ATCM {if specifically allowed for under this permit}.

---

[1] As used in the permit, "ATCM" means Section 93115, Title 17, California Code of Regulations. Airborne Toxic Control Measure for Stationary Compression Ignition (CI) Engines

[2] "maintenance and testing" is defined in the ATCM and may also be found on the District webpage at http://www.ourair.org/wp-content/uploads/ES_MT_DICE_Definitions.pdf

d. hours of operation for all uses other than those specified in items (a) – (c) above along with a description of what those hours were for.

e. fuel purchase records that demonstrate that only fuel meeting the requirements of the ATCM is purchased and added to each emergency standby engine, or to any fuel tank directly attached to each emergency standby engine.

5. **Reporting.** By March 1 of each year, a written report documenting compliance with the terms and conditions of this permit and the ATCM for the previous calendar year shall be provided by the permittee to the District (Attn: *Annual Report Coordinator*). All logs and other basic source data not included in the report shall be made available to the District upon request. The report shall include the information required in the Recordkeeping Condition above.

6. **Temporary Engine Replacements - DICE ATCM.** Any reciprocating internal combustion engine subject to this permit and the stationary diesel ATCM may be temporarily replaced only if the requirements (a – h) listed herein are satisfied.

a. The permitted engine that is being temporarily replaced is in need of routine repair or maintenance.

b. The permitted engine does not have a cracked block, unless the block will be replaced under manufacturer's warranty.

c. Replacement parts are available for the permitted engine.

d. The permitted engine is returned to its original service within 180 days of installation of the temporary engine.

e. The temporary replacement engine has the same or lower manufacturer rated horsepower and same or lower potential to emit of each pollutant as the permitted engine. At the written request of the permittee, the District may approve a replacement engine with a larger rated horsepower if the proposed temporary engine has manufacturer guaranteed emissions (for a brand new engine) or source test data (for a previously used engine) less than or equal to the permitted engine.

f. The temporary replacement engine shall comply with all rules and permit requirements that apply to the permitted engine.

g. For each permitted engine to be temporarily replaced, the permittee shall submit a completed *Temporary IC Engine Replacement Notification* form (Form ENF-94) within 14 days of the temporary engine being installed. This form may be sent hardcopy, or can be e-mailed (e-mail: engr@sbcapcd.org) to the District (Attn: Engineering Supervisor).

h. Within 14 days of returning the original permitted engine to service, the permittee shall submit a completed *Temporary IC Engine Replacement Report* form (Form ENF-95). This

form may be sent hardcopy, or can be e-mailed (e-mail: engr@sbcapcd.org) to the District (Attn: Engineering Supervisor).

Any engine in temporary replacement service shall be immediately shut down if the District determines that the requirements of this condition have not been met. If the requirements of this condition are not met, the permittee must obtain an ATC before installing or operating a temporary replacement engine.

7. **Permanent Engine Replacements.** The permittee may install a new engine in place of an engine permitted herein without first obtaining an ATC only if the requirements (a – f) listed herein are satisfied.

   a. The permitted stationary diesel-fueled engine is an E/S engine, a firewater pump engine or an engine used for an essential public service (as defined by the District).

   b. The permitted engine breaks down, cannot be repaired, and needs to be replaced by a new permanent engine.

   c. The facility provides "good cause" (in writing) for the need to install a new permanent engine before an ATC can be obtained for a new engine.

   d. The new permanent engine must comply with the requirements of the ATCM for new engines. A temporary replacement engine may be used while the new permanent engine is being procured only if it meets the requirements of the *Temporary Engine Replacements - DICE ATCM* permit condition.

   e. An ATC application for the new permanent engine must be submitted to the District within 15 days of the existing engine being replaced and the ATC must be obtained no later than 180 days from the date of engine replacement (these timelines include the use of a temporary engine).

   f. For each new permanent engine installed pursuant to this condition, the permittee shall submit a completed *Permanent IC Engine Replacement Notification* form (Form ENF-96) within 14 days of the new engine being installed. This form may be sent hardcopy, or can be e-mailed (e-mail: engr@sbcapcd.org) to the District (Attn: Engineering Supervisor).

   Any engine installed pursuant to this condition shall be immediately shut down if the District determines that the requirements of this condition have not been met.

8. **Notification of Non-Compliance.** Owners or operators who have determined that they are operating their stationary diesel-fueled CI engine(s) in violation of the requirements specified in the ATCM shall notify the District immediately upon detection of the violation and shall be subject to District enforcement action.

9. **Notification of Loss of Exemption.** Owners or operators of in-use stationary diesel-fueled CI engines who are exempt from all or part of the requirements of the ATCM shall notify the District within five days after they become aware that the exemption no longer applies and shall demonstrate compliance within 180 days after the date the exemption no longer applies.

10. **Enrollment in a DRP/ISC.** Owners or operators shall obtain an ATC before enrolling a stationary diesel-fueled CI engine rated over 50 bhp in a Demand Response Program/Interruptible Service Contract (as defined in the ATCM) for the first time.

11. **Consistency with Analysis.** Operation under this permit shall be conducted consistent with all data, specifications and assumptions included with the application and supplements thereof (as documented in the District's project file) and the District's analyses under which this permit is issued as documented in the Permit Evaluation prepared for and issued with the permit.

12. **Equipment Maintenance.** The equipment listed in this permit shall be properly maintained and kept in good condition at all times. The equipment manufacturer's maintenance manual, maintenance procedures and/or maintenance checklists (if any) shall be kept on site.

13. **Compliance.** Nothing contained within this permit shall be construed as allowing the violation of any local, state or federal rules, regulations, air quality standards or increments.

14. **Severability.** In the event that any condition herein is determined to be invalid, all other conditions shall remain in force.

15. **Conflict Between Permits.** The requirements or limits that are more protective of air quality shall apply if any conflict arises between the requirements and limits of this permit and any other permitting actions associated with the equipment permitted herein.

16. **Access to Records and Facilities.** As to any condition that requires for its effective enforcement the inspection of records or facilities by the District or its agents, the permittee shall make such records available or provide access to such facilities upon notice from the District. Access shall mean access consistent with California Health and Safety Code Section 41510 and Clean Air Act Section 114A.

17. **Equipment Identification.** Identifying tag(s) or name plate(s) shall be displayed on the equipment to show manufacturer, model number, and serial number. The tag(s) or plate(s) shall be issued by the manufacturer and shall be affixed to the equipment in a permanent and conspicuous position.

18. **Emission Factor Revisions.** The District may update the emission factors for any calculation based on USEPA AP-42 or District emission factors at the next permit modification or permit reevaluation to account for USEPA and/or District revisions to the underlying emission factors.

19. **Transfer of Owner/Operator.** This permit is only valid for the owner and operator listed on this permit unless a *Transfer of Owner/Operator* application has been applied for and received by the District. Any transfer of ownership or change in operator shall be done in a manner as specified in

District Rule 203. District Form –01T and the appropriate filing fee shall be submitted to the District within 30 days of the transfer.

20. **Reimbursement of Costs. N/A**

AIR POLLUTION CONTROL OFFICER

November 2, 2023

DATE

Attachments:

- Table 1 – Mass Emission Limits
- Permit Equipment List
- Permit Evaluation for Permit to Operate 11704 - R6

Notes:

- Reevaluation Due Date: September 2026.
- ATCM information can be located online at http://www.ourair.org/dice-atcm/
- Detailed recordkeeping is required. See Form ENF -92 at the above webpage.
- Stationary sources are subject to an annual emission fee (see Fee Schedule B-3 of Rule 210).
- Annual reports are due by March 1st of each year.
- This permit supersedes Permit to Operate 11704-R5.

TABLE 1. MASS EMISSION LIMITS

Device	NOx		ROC		CO		SOx		PM		PM10		PM2.5	
ID #	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy
106614	2.46	0.01	0.40	0.01	1.08	0.01	0.01	0.01	0.35	0.01	0.35	0.01	0.35	0.01

Table Notes:

(a) Mass emission limits based on allowable maintenance and testing hours.
(b) NO_x as NO_2. SO_x as SO_2.
(c) Device ID # from permit equipment list.
(d) lb/day = pounds per day. tpy = tons per year
(e) Emission data that round down to 0.00 has been set to a default of 0.01.
(f) Calculated using the default SBCAPCD diesel engine emission factors available on the District website here: http://www.ourair.org/dice/emission-factors/.

PERMIT EQUIPMENT LIST

Device ID #	106614	*Maximum Rated BHP*	81
Device Name	E/S Diesel Generator	*Serial Number*	EBM0A201636
Engine Use	Electrical Power	*EPA Engine Family Name*	n/a
Manufacturer	Daewoo	*Operator ID*	
Model Year	2002	*Fuel Type*	CARB Diesel - ULSD
Model	P034TI		
DRP/ISC?	No	*Healthcare Facility?*	No
Daily Hours	2.00	*Annual Hours*	20
Location Note			
Device Description	Tier 1 81 bhp diesel-fired, turbocharged, backup generator.		

air pollution control district
SANTA BARBARA COUNTY

PERMIT EVALUATION FOR
PERMIT TO OPERATE 11704 - R6

1.0 BACKGROUND:

This permit is for the triennial reevaluation of the Permit to Operate. This permit addresses requirements of the State's Airborne Toxic Control Measure for Stationary Compression Ignition Engines (DICE ATCM). On March 17, 2005, District Rule 202 {*Exemptions to Rule 201*} was revised to remove the compression-ignited engine (e.g., diesel) permit exemption for units rated over 50 brake horsepower (bhp). That exemption was removed to allow the District to implement the DICE ATCM. This permit covers In-Use emergency standby (E/S) generators with annual maintenance and testing operation limited to 20 hours or less.

2.0 DICE ATCM COMPLIANCE

Owners of In-Use Stationary DICE E/S generators are subject to the requirements of Table 2 of the ATCM. By limiting annual maintenance and testing hours to 20 hours or less, these engines are not required to meet any new emission standards (i.e., engine retrofits are not required). The ATCM does require that the hours of operation be monitored with a non-resettable hour meter, that CARB Diesel Fuel be used (or approved alternative) and that detailed records of use be recorded and reported.

The Federal NESHAP for reciprocating internal combustion engines (RICE NESHAP) established inspection and maintenance requirements for emergency standby diesel engines. Engines at residential, institutional, and commercial facilities are exempt from these new requirements. Additionally, engines constructed after 2005 are subject to federal New Source Performance Standards (NSPS) and are not subject to further requirements under NESHAP. The engine on this permit is exempt from the requirements of the RICE NESHAP because it is located at a commercial facility.

3.0 EMISSIONS

Mass emission estimates are based on the maximum allowed hours for maintenance and testing. Emissions are determined by the following equations:

E1, lb/day = Engine Rating (bhp) * EF (g/bhp-hr) * Daily Hours (hr/day) * (lb/453.6 g)
E2, tpy = Engine Rating (bhp) * EF (g/bhp-hr) * Annual Hours (hr/yr) * (lb/453.6 g) * (ton/2000 lb)

The emission factors (EF) were chosen based on each engine's rating and age. Default emission factors are documented on the District's webpage at http://www.ourair.org/dice/emission-factors/. Daily hours are assumed to be 2 hours per day (re: ATCM FAQ Ver 1.5 #32).

4.0 REEVALUATION REVIEW

Compliance Summary: No violations have been found in the last three years.

Notes from Inspector: The facility was inspected on 12/02/2022. During this inspection, the inspector indicated that no deficiencies were noted.

Changes to Applicable Rules (or new rules): There have been no changes to the applicable rules.

Changes/Revisions to Engineering Analysis (EF updates, etc.): There have been no changes to the Engineering Analysis.

Changes/Revisions to Monitoring, Recordkeeping & Reporting: There have been no changes to these requirements.

Other Changes/Corrections made: This permit reflects the most current template.

5.0 FEES

Fees for this permit were assessed pursuant to Schedule F.2 of Rule 210.

6.0 RECOMMENDATION

It is recommended that this permit be granted with the conditions as specified in the permit.

Paula Andrews	October 2023		October 2023
AQ Engineer/Technician	Date	Supervisor	Date

7.0 ATTACHMENT(S)

A. Fee Statement
B. IDS Tables

ATTACHMENT A
Fee Statement

air pollution control district
SANTA BARBARA COUNTY

FEE STATEMENT
PTO No. 11704 - R6
FID: 10581 Verizon Wireless - Solomon Peak / SSID: 10450

Permit Fee

Triennial Engine Reevaluation Fee	**$535.00**

Fee Statement Grand Total = $535

Notes:
(1) Fee Schedule Items are listed in District Rule 210, Fee Schedule "A".
(2) The term "Units" refers to the unit of measure defined in the Fee Schedule.

Permit to Operate 11704 - R6

ATTACHMENT B
IDS Tables

PERMIT POTENTIAL TO EMIT

	NO_x	ROC	CO	SO_x	PM	PM_{10}	$PM_{2.5}$
lb/day	2.46	0.40	1.08	0.01	0.35	0.35	0.35
lb/hr							
TPQ							
TPY	0.01	0.01	0.01	0.01	0.01	0.01	0.01

FACILITY POTENTIAL TO EMIT

	NO_x	ROC	CO	SO_x	PM	PM_{10}	$PM_{2.5}$
lb/day	2.46	0.40	1.08	0.01	0.35	0.35	0.35
lb/hr							
TPQ							
TPY	0.01	0.01	0.01	0.01	0.01	0.01	0.01

STATIONARY SOURCE POTENTIAL TO EMIT

	NO_x	ROC	CO	SO_x	PM	PM_{10}	$PM_{2.5}$
lb/day	2.46	0.40	1.08	0.01	0.35	0.35	0.35
lb/hr							
TPQ							
TPY	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Notes:
(1) Emissions in these tables are from IDS.
(2) Because of rounding, values in these tables shown as 0.00 are less than 0.005, but greater than zero.

apcd air pollution control district
SANTA BARBARA COUNTY

November 2, 2023

Certified Mail
Return Receipt Requested 9205 5902 2008 6322 8912 92

Armand Delgado
Verizon Wireless, Inc.
295 Parkshore Drive, Building B
Folsom, CA 95630

FID: 10581
Permit: P 11704 R6
SSID: 10450

Re: Notice of Final Permit to Operate 11704 R6 Issuance
Fee Due: $ 535

Dear Armand Delgado:

Enclosed is the final Permit to Operate (Reeval) No. 11704 R6 for the Stationary Diesel-Fired Emergency Standby Engine(s) at Solomon Peak in Santa Maria. Please carefully review the enclosed documents to ensure that they accurately describe your facility and that the conditions are acceptable to you.

This PTO is for the triennial (every three years) reevaluation of existing air quality permits at your facility, as required by Air Pollution Control District Rule 201. This permit may contain new conditions added to ensure compliance with current laws and updated regulations.

This permit requires you to:

- Pay a **fee** of $535, which is due immediately and is considered late after 30 calendar days from the date stamped on the permit. Pursuant to District Rule 210.IV.B, no appeal shall be heard unless all fees have been paid. See the attached invoice for more information.
- Follow the conditions listed on your permit. Pay careful attention to the recordkeeping and reporting requirements.
- Comply with the applicable requirements of the State's *Airborne Toxics Control Measure for Stationary Compression Ignition Engines* (see http://www.ourair.org/dice-atcm/).
- Promptly report changes in ownership, operator, or your mailing address to the District.

If you are not satisfied with the conditions of this permit, **you have thirty (30) calendar days from the date of this permit issuance notice to appeal this permit to the Air Pollution Control District Hearing Board** (ref: California Health and Safety Code, §42302.1). Any contact, discussions, or meetings with District staff regarding the terms of this permit during or after permit issuance do not constitute an appeal under Rule 209 or the California H&SC and will not stop or alter the 30-day appeal period. Only a formal application to the Hearing Board can initiate an appeal. You may contact the Clerk of the Hearing Board for specific information concerning appeal initiation and procedures.

Please include the facility identification (FID) and permit numbers shown at the top of this letter on all correspondence regarding this permit. If you have any questions, please contact Paula Andrews of my staff at (805) 979-8321.

Sincerely,

David Harris, Division Manager
Engineering Division

enc: Final Reeval 11704 R6
Final Permit Evaluation
Invoice # R 11704

cc: Verizon Wireless - Solomon Peak 10581 Project File
Engr Chron File
Accounting (Invoice only)
Paula Andrews (Cover letter only)

\\sbcapcd.org\shares\Groups\ENGR\WP\IC Engines\REEVAL\Reeval 11704-R6\Reeval 11704 R6 - Final Letter - 10-3-2023.docx

air pollution control district
SANTA BARBARA COUNTY

Authority to Construct/Permit to Operate 15691

EQUIPMENT OWNER:

United States Space Force

EQUIPMENT OPERATOR:

30 CES/CEOIG

EQUIPMENT LOCATION:

Building 2, Orcutt

STATIONARY SOURCE/FACILITY:

VSFB - Orcutt

SSID: 10506
FID: 10641

EQUIPMENT DESCRIPTION:

Diesel-fired emergency standby engine(s) as listed in the table at the end of this permit.

PROJECT/PROCESS DESCRIPTION:

The diesel engine(s) subject to this permit provide electrical backup power in times of emergencies as defined by the State's *Airborne Toxics Control Measure for Stationary Compression Ignition Engines* (ATCM). This ATCM (CCR Section 93115, Title 17) limits annual engine maintenance and testing hours (as listed for each engine in the equipment list) with no limitation for emergency use. Definitions of the terms "*maintenance and testing*" and "*emergency use*" are found in the ATCM and the District's webpage at http://www.ourair.org/dice-atcm/.

CONDITIONS:

1. **Emission Limitations.** The mass emissions from the equipment permitted herein shall not exceed the values listed in Table 1. Emissions of PM and other pollutants shall not exceed the emissions standards listed in Table 2 of this permit. Compliance shall be based on the operational, monitoring, recordkeeping and reporting conditions of this permit.

2. **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions. The equipment may operate as many hours as necessary for emergency use, as defined in the ATCM[1].

   a. Maintenance & Testing Use Limit: The stationary emergency standby diesel-fueled engine(s), except for in-use firewater pump engines, shall not be operated for more than the hours listed in the attached equipment list for maintenance and testing[2] purposes.

   b. Impending Rotating Outage Use: The stationary emergency standby diesel-fueled engine(s) may be operated in response to the notification of an impending rotating outage if all the conditions cited in the ATCM are met.

   c. Fuel and Fuel Additive Requirements: The permittee may only add fuel and/or fuel additives that comply with the ATCM to the engine or to any fuel tank directly attached to the engine.

3. **Monitoring.** The equipment permitted herein is subject to the following monitoring requirements:

   a. Non-Resettable Hour Meter: Each stationary emergency standby diesel-fueled engine(s) shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District has determined (in writing) that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history.

4. **Recordkeeping.** The permittee shall record and maintain the information listed below. Log entries shall be retained for a minimum of 36 months from the date of entry. Log entries made within 24 months of the most recent entry shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request. Log entries made from 25 to 36 months from most recent entry shall be made available to District staff within 5 working days from request. District Form ENF-92 (*Diesel-Fired Emergency Standby Engine Recordkeeping Form*) can be used for this requirement.

   a. emergency use hours of operation.

   b. maintenance and testing hours of operation.

   c. hours of operation for emission testing to show compliance with the ATCM {if specifically allowed for under this permit}.

---

[1] As used in the permit, "ATCM" means Section 93115, Title 17, California Code of Regulations. Airborne Toxic Control Measure for Stationary Compression Ignition (CI) Engines

[2] "maintenance and testing" is defined in the ATCM and may also be found on the District webpage at http://www.ourair.org/wp-content/uploads/ES_MT_DICE_Definitions.pdf

d. initial start-up hours {if specifically allowed for under this permit}.

e. hours of operation for all uses other than those specified in items (a) – (d) above along with a description of what those hours were for.

f. fuel purchase records that demonstrate that only fuel meeting the requirements of the ATCM is purchased and added to each emergency standby engine, or to any fuel tank directly attached to each emergency standby engine.

5. **Reporting.** By March 1 of each year, a written report documenting compliance with the terms and conditions of this permit and the ATCM for the previous calendar year shall be provided by the permittee to the District (Attn: *Annual Report Coordinator*). All logs and other basic source data not included in the report shall be made available to the District upon request. The report shall include the information required in the Recordkeeping Condition above.

6. **Temporary Engine Replacements - DICE ATCM.** Any reciprocating internal combustion engine subject to this permit and the stationary diesel ATCM may be temporarily replaced only if the requirements (a – h) listed herein are satisfied.

a. The permitted engine that is being temporarily replaced is in need of routine repair or maintenance.

b. The permitted engine does not have a cracked block, unless the block will be replaced under manufacturer's warranty.

c. Replacement parts are available for the permitted engine.

d. The permitted engine is returned to its original service within 180 days of installation of the temporary engine.

e. The temporary replacement engine has the same or lower manufacturer rated horsepower and same or lower potential to emit of each pollutant as the permitted engine. At the written request of the permittee, the District may approve a replacement engine with a larger rated horsepower if the proposed temporary engine has manufacturer guaranteed emissions (for a brand new engine) or source test data (for a previously used engine) less than or equal to the permitted engine.

f. The temporary replacement engine shall comply with all rules and permit requirements that apply to the permitted engine.

g. For each permitted engine to be temporarily replaced, the permittee shall submit a completed *Temporary IC Engine Replacement Notification* form (Form ENF-94) within 14 days of the temporary engine being installed. This form may be sent hardcopy, or can be e-mailed (e-mail: engr@sbcapcd.org) to the District (Attn: Engineering Supervisor).

h. Within 14 days of returning the original permitted engine to service, the permittee shall submit a completed *Temporary IC Engine Replacement Report* form (Form ENF-95). This form may be sent hardcopy, or can be e-mailed (e-mail: engr@sbcapcd.org) to the District (Attn: Engineering Supervisor).

Any engine in temporary replacement service shall be immediately shut down if the District determines that the requirements of this condition have not been met. If the requirements of this condition are not met, the permittee must obtain an ATC before installing or operating a temporary replacement engine.

7. **Permanent Engine Replacements.** The permittee may install a new engine in place of an engine permitted herein without first obtaining an ATC only if the requirements (a – f) listed herein are satisfied.

a. The permitted stationary diesel-fueled engine is an E/S engine, a firewater pump engine or an engine used for an essential public service (as defined by the District).

b. The permitted engine breaks down, cannot be repaired, and needs to be replaced by a new permanent engine.

c. The facility provides "good cause" (in writing) for the need to install a new permanent engine before an ATC can be obtained for a new engine.

d. The new permanent engine must comply with the requirements of the ATCM for new engines. A temporary replacement engine may be used while the new permanent engine is being procured only if it meets the requirements of the *Temporary Engine Replacements - DICE ATCM* permit condition.

e. An ATC application for the new permanent engine must be submitted to the District within 15 days of the existing engine being replaced and the ATC must be obtained no later than 180 days from the date of engine replacement (these timelines include the use of a temporary engine).

f. For each new permanent engine installed pursuant to this condition, the permittee shall submit a completed *Permanent IC Engine Replacement Notification* form (Form ENF-96) within 14 days of the new engine being installed. This form may be sent hardcopy, or can be e-mailed (e-mail: engr@sbcapcd.org) to the District (Attn: Engineering Supervisor).

Any engine installed pursuant to this condition shall be immediately shut down if the District determines that the requirements of this condition have not been met.

8. **Notification of Non-Compliance.** Owners or operators who have determined that they are operating their stationary diesel-fueled CI engine(s) in violation of the requirements specified in the ATCM shall notify the District immediately upon detection of the violation and shall be subject to District enforcement action.

9. **Notification of Loss of Exemption.** Owners or operators of in-use stationary diesel-fueled CI engines who are exempt from all or part of the requirements of the ATCM shall notify the District within five days after they become aware that the exemption no longer applies and shall demonstrate compliance within 180 days after the date the exemption no longer applies.

10. **Enrollment in a DRP/ISC.** Owners or operators shall obtain an ATC before enrolling a stationary diesel-fueled CI engine rated over 50 bhp in a Demand Response Program/Interruptible Service Contract (as defined in the ATCM) for the first time.

11. **Consistency with Analysis.** Operation under this permit shall be conducted consistent with all data, specifications and assumptions included with the application and supplements thereof (as documented in the District's project file) and the District's analyses under which this permit is issued as documented in the Permit Evaluation prepared for and issued with the permit.

12. **Equipment Maintenance.** The equipment listed in this permit shall be properly maintained and kept in good condition at all times. The equipment manufacturer's maintenance manual, maintenance procedures and/or maintenance checklists (if any) shall be kept on site.

13. **Compliance.** Nothing contained within this permit shall be construed as allowing the violation of any local, state or federal rules, regulations, air quality standards or increments.

14. **Severability.** In the event that any condition herein is determined to be invalid, all other conditions shall remain in force.

15. **Conflict Between Permits.** The requirements or limits that are more protective of air quality shall apply if any conflict arises between the requirements and limits of this permit and any other permitting actions associated with the equipment permitted herein.

16. **Access to Records and Facilities.** As to any condition that requires for its effective enforcement the inspection of records or facilities by the District or its agents, the permittee shall make such records available or provide access to such facilities upon notice from the District. Access shall mean access consistent with California Health and Safety Code Section 41510 and Clean Air Act Section 114A. District access to VSFB facilities shall be governed by Appendix A of the 1998 Memorandum of Agreement between VSFB (formerly VAFB) and the District (and any updates thereof). [Ref: Rule 1313]

17. **Equipment Identification.** Identifying tag(s) or name plate(s) shall be displayed on the equipment to show manufacturer, model number, and serial number. The tag(s) or plate(s) shall be issued by the manufacturer and shall be affixed to the equipment in a permanent and conspicuous position.

18. **Emission Factor Revisions.** The District may update the emission factors for any calculation based on USEPA AP-42 or District emission factors at the next permit modification or permit reevaluation to account for USEPA and/or District revisions to the underlying emission factors.

19. **Transfer of Owner/Operator.** This permit is only valid for the owner and operator listed on this permit unless a *Transfer of Owner/Operator* application has been applied for and received by the District. Any transfer of ownership or change in operator shall be done in a manner as specified in District Rule 203. District Form –01T and the appropriate filing fee shall be submitted to the District within 30 days of the transfer.

20. **Reimbursement of Costs. N/A**

21. **Initial Operations and District Inspection.** The permittee shall:

    a. Within 14 days of initial operations, the permittee shall provide the District written notification of the initial operations start date using the attached yellow Startup Notification card or by e-mail to enfr@sbcapcd.org.

    b. Arrange for equipment inspection by calling the District's Compliance Manager at (805) 961-8800 or via e-mail to enfr@sbcapcd.org no later than fourteen (14) calendar days after initial operations commence. The equipment inspection shall occur not more than thirty (30) calendar days (or other mutually agreed upon time period) after initial operations begin. The Compliance Division may waive this inspection requirement if an initial inspection is deemed unnecessary to verify that the modifications authorized by this permit are in compliance with District rules and permit conditions.

AIR POLLUTION CONTROL OFFICER

September 13, 2021

DATE

Attachments:

- Table 1 – Mass Emission Limits
- Table 2 – Emission Standards
- Permit Equipment List
- Permit Evaluation for Authority to Construct/Permit to Operate 15691

Notes:

- Reevaluation Due Date: September 2024
- ATCM information can be located online at http://www.ourair.org/dice-atcm/
- Detailed recordkeeping is required. See Form ENF -92 at the above webpage.
- Stationary sources are subject to an annual emission fee (see Fee Schedule B-3 of Rule 210).
- Annual reports are due by March 1st of each year.
- This permit supersedes Permit to Operate 13156-R3 if used.
- This permit is valid for one year from the date stamped above if unused.

TABLE 1. MASS EMISSION LIMITS

Device ID #	NOx		ROC		CO		SOx		PM		PM10		PM2.5	
	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy	lb/day	tpy
395161	19.70	0.02	1.41	0.01	26.04	0.03	0.04	0.01	1.06	0.01	1.06	0.01	1.06	0.01

TABLE 2. EMISSION FACTORS (g/bhp-hr)

Device ID #	NOx	ROC	CO	SOx	PM	PM10	PM2.5
395161	2.80	0.20	3.70	0.01	0.15	0.15	0.15

Table Notes:

(a) Mass emission limits based on allowable maintenance and testing hours.
(b) NO_x as NO_2. SO_x as SO_2. PM means diesel PM.
(c) Device ID # from permit equipment list.
(d) lb/day = pounds per day. tpy = tons per year
(e) Emission data that round down to 0.00 has been set to a default of 0.01.

PERMIT EQUIPMENT LIST

Device ID #	395161	*Maximum Rated BHP*	133
Device Name	Emergency Backup Generator - Bldg 2	*Serial Number*	TBD
Engine Use	Electrical Power	*EPA Engine Family Name*	KJDXL04.5119
Manufacturer	John Deere	*Operator ID*	TBD
Model Year	2019	*Fuel Type*	CARB Diesel - ULSD
Model	4045HF285H		
DRP/ISC?	No	*Healthcare Facility?*	No
Daily Hours	24.00	*Annual Hours*	50
Location Note	Building 2		
Device Description	Tier III, turbocharged/aftercooled, diesel fired emergency standby generator. Replaces an existing engine (DID 112532)		

air pollution control district
SANTA BARBARA COUNTY

PERMIT EVALUATION FOR
AUTHORITY TO CONSTRUCT/PERMIT TO OPERATE 15691

1.0 BACKGROUND

The application for ATC/PTO 15691 was received on March 3, 2021 and deemed complete on March 22, 2021. This new generator replaces an existing diesel fired emergency standby generator at Building 2 in Orcutt (DID # 112532) permitted under Reeval 13156 R3.

This permit addresses requirements of the State's Airborne Toxic Control Measure for Stationary Compression Ignition Engines (DICE ATCM). On March 17, 2005, District Rule 202 {*Exemptions to Rule 201*} was revised to remove the compression-ignited engine (e.g., diesel) permit exemption for units rated over 50 brake horsepower (bhp). That exemption was removed to allow the District to implement the DICE ATCM.

2.0 DICE ATCM/NESHAP COMPLIANCE

Owners of New Stationary DICE E/S engines are subject to the requirements of Table 1 of the ATCM. The ATCM requires that the hours of operation be monitored with a non-resettable hour meter, that CARB Diesel Fuel be used (or approved alternative) and that detailed records of use be recorded and reported.

The Federal NESHAP for reciprocating internal combustion engines (RICE NESHAP) established inspection and maintenance requirements for emergency standby diesel engines. Engines at residential, institutional, and commercial facilities are exempt from these new requirements. Additionally, engines constructed after 2005 are subject to federal New Source Performance Standards (NSPS) and are not subject to further requirements under NESHAP. The engine on this permit is exempt from the requirements of the RICE NESHAP because the engine was constructed after 2005.

3.0 EMISSIONS

Emissions: Mass emission estimates are based on the maximum allowed hours for maintenance and testing. Emissions are determined by the following equations:

E1, lb/day = Engine Rating (bhp) * EF (g/bhp-hr) * Daily Hours (hr/day) * (lb/453.6 g)
E2, tpy = Engine Rating (bhp) * EF (g/bhp-hr) * Annual Hours (hr/yr) * (lb/453.6 g) * (ton/2000 lb)

The emission factors (EF) were chosen based on each engine's rating and age. Unless engine specific data was provided, default emission factors are used as documented on the District's webpage at http://www.ourair.org/dice/emission-factors/. Daily hours are assumed to be 24 hrs/day as requested by the applicant.

4.0 REEVALUATION REVIEW (not applicable)

5.0 AQIA

The project is not subject to the Air Quality Impact Analysis requirements of Regulation VIII.

6.0 OFFSETS/ERCs

Offsets: The emission offset thresholds of Regulation VIII are not exceeded.

ERCs: This source does not generate emission reduction credits.

7.0 AIR TOXICS

An air toxics Health Risk Assessment (HRA) screening was conducted by the Santa Barbara County Air Pollution Control District (District) for a proposed diesel-fired internal combustion engine (DICE) located at Building 2, South of W Rice Ranch Rd in Orcutt. The proposed engine is a 133-bhp Model 4045HF285H, manufactured by John Deere. The HRA screening was conducted using the District's DICE Screening Tool, which was developed using the USEPA-recommended screening model, AERSCREEN, and the Hotspots Analysis and Reporting Program (HARP) software, Version 2. Cancer risk and chronic non-cancer Hazard Index (HI) risk values were calculated and compared to *significance thresholds* for cancer and chronic non-cancer risk adopted by the District's Board of Directors. The calculated risk values and applicable thresholds are as follows:

	Bldg 2 DICE Max Risks	Significance Threshold
Cancer risk:	4.11/million	≥10/million
Chronic non-cancer risk:	<0.1	>1

Based on these results, the proposed DICE at Building 2 in Orcutt does not present a significant risk to the surrounding community. For this reason, Authority to Construct/Permit to Operate No. 15691 will be issued for this project.

8.0 CEQA / LEAD AGENCY

This project is exempt from CEQA pursuant to the Environmental Review Guidelines for the Santa Barbara County District (revised April 30, 2015). Appendix A.2.p (*APCD Projects Exempt from CEQA* and *Equipment or Operations Exempt from CEQA*} provides an exemption specifically for diesel-fired emergency/standby engines that comply with the applicable state Air Toxics Control Measure (ATCM). No further action is necessary.

9.0 SCHOOL NOTIFICATION

A school notice pursuant to the requirements of H&SC §42301.6 was not required.

10.0 PUBLIC and AGENCY NOTFICATION PROCESS/COMMENTS ON DRAFT PERMIT

This project was not subject to public notice.

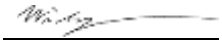
The permittee had no comments on the draft permit.

11.0 FEE DETERMINATION

Fees for this permit were assessed pursuant to Schedule A.3 of Rule 210.

12.0 RECOMMENDATION

It is recommended that this permit be granted with the conditions as specified in the permit.

Agnieszka Letts	8/17/2021		8/26/2021
AQ Engineer/Technician	Date	Supervisor	Date

13.0 ATTACHMENT(S)

A. Emission Calculations
B. Fee Statement
C. IDS Tables
D. Air Toxics Documentation

ATTACHMENT A
Emission Calculations

DICE EMERGENCY STANDBY EMISSION CALCULATIONS (Ver. 1.0)

Attachment: A-1
Permit Number: ATC-PTO 15691
Facility:

Engine Information

Data	*Value*	*Units*	*Reference*
Engine Rating.....	133	bhp	Permit Application
Maximum Daily Hours.....	24	hours	Permit Application
Maximum Annual Hours.....	50	hours	Permit Application
EPA Tier.....	3	N/A	Permit Application

Emission Factors

Pollutant	*g/bhp-hr*	*Reference*
NO_x	2.8000	EPA Tier 3 for 100 hp to 174.99 hp engines
ROC	0.1998	EPA Tier 3 for 100 hp to 174.99 hp engines
CO	3.7000	EPA Tier 3 for 100 hp to 174.99 hp engines
SO_x	0.0055	EPA AP-42, Table 3.3-2, Calculated Value
PM	0.1500	EPA Tier 3 for 100 hp to 174.99 hp engines
PM_{10}	0.1500	AP-42 Chapters 3.2 and 3.3
$PM_{2.5}$	0.1500	AP-42 Chapters 3.2 and 3.3

DICE Potential to Emit

Pollutant	lb/day	TPY
NO_x	19.70	0.02
ROC	1.41	0.00
CO	26.04	0.03
SO_x	0.04	0.00
PM	1.06	0.00
PM_{10}	1.06	0.00
$PM_{2.5}$	1.06	0.00

Processed By: AXL Date: 3/11/2021

ATTACHMENT B
Fee Statement

air pollution control district
SANTA BARBARA COUNTY

FEE STATEMENT
ATC/PTO No. 15691
FID: 10641 VSFB - Orcutt / SSID: 10506

Device Fee

Device No.	Device Name	Fee Schedule	Qty of Fee Units	Fee per Unit	Fee Units	Max or Min. Fee Apply?	Number of Same Devices	Pro Rate Factor	Device Fee	Penalty Fee?	Fee Credit	Total Fee per Device
395161	Emergency Backup Generator - Bldg 2	A3	0.9443	566.34	Per 1 million Btu input	No	1	1	534.79	0.00	0.00	534.79
	Device Fee Sub-Totals =								**$534.79**	**$0.00**	**$0.00**	
	Device Fee Total =											**$534.79**

Permit Fee

Fee Based on Devices **$534.79**

Fee Statement Grand Total = $534

Notes:

(1) Fee Schedule Items are listed in District Rule 210, Fee Schedule "A".
(2) The term "Units" refers to the unit of measure defined in the Fee Schedule.

ATTACHMENT C
IDS Tables

PERMIT POTENTIAL TO EMIT

	NO_x	ROC	CO	SO_x	PM	PM_{10}	$PM_{2.5}$
lb/day	19.70	1.41	26.04	0.04	1.06	1.06	1.06
lb/hr							
TPQ							
TPY	0.02	0.00	0.03	0.00	0.00	0.00	0.00

FACILITY POTENTIAL TO EMIT

	NO_x	ROC	CO	SO_x	PM	PM_{10}	$PM_{2.5}$
lb/day	19.70	1.41	26.04	0.04	1.06	1.06	1.06
lb/hr							
TPQ							
TPY	0.02	0.00	0.03	0.00	0.00	0.00	0.00

STATIONARY SOURCE POTENTIAL TO EMIT

	NO_x	ROC	CO	SO_x	PM	PM_{10}	$PM_{2.5}$
lb/day	19.70	1.41	26.04	0.04	1.06	1.06	1.06
lb/hr							
TPQ							
TPY	0.02	0.00	0.03	0.00	0.00	0.00	0.00

Notes:
(1) Emissions in these tables are from IDS.
(2) Because of rounding, values in these tables shown as 0.00 are less than 0.005, but greater than zero.

ATTACHMENT D
Air Toxics Documentation

1.0 SUMMARY

An air toxics Health Risk Assessment (HRA) screening was conducted by the Santa Barbara County Air Pollution Control District (District) for a proposed diesel-fired internal combustion engine (DICE) located at Building 2, South of W Rice Ranch Rd in Orcut. The proposed engine is a 133-bhp Model 4045HF285H, manufactured John Deere. The HRA screening was conducted using the District's DICE Screening Tool, which was developed using the USEPA-recommended screening model, AERSCREEN, and the Hotspots Analysis and Reporting Program (HARP) software, Version 2. Cancer risk and chronic non-cancer Hazard Index (HI) risk values were calculated and compared to *significance thresholds* for cancer and chronic non-cancer risk adopted by the District's Board of Directors. The calculated risk values and applicable thresholds are as follows:

	Bldg 2 DICE Max Risks	Significance Threshold
Cancer risk:	4.11/million	≥10/million
Chronic non-cancer risk:	<0.1	>1

Based on these results, the proposed DICE at Building 2 in Orcutt does not present a significant risk to the surrounding community. For this reason, Authority to Construct/ Permit to Operate No. 15691 will be issued for this project.

2.0 MODELING INFORMATION

The inputs to the DICE Screening Tool are shown in Figure 2.1 below.

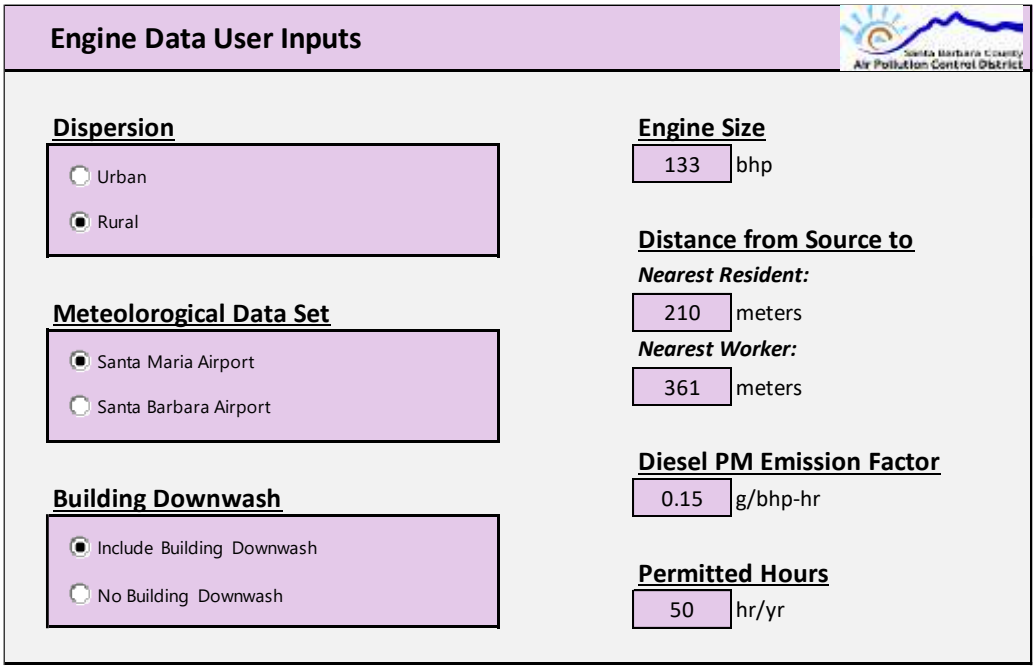


Figure 2.1 – User Inputs to DICE Screening Tool

ATTACHMENT D
Air Toxics Documentation

3.0 EMISSIONS

The calculated emissions for this DICE are shown in Table 3.1. The maximum permitted usage of 50 hours per year for maintenance and testing purposes, maximum rated brake horsepower of 133 bhp for this engine, and CARB's *Final Regulation Order: Amendments to the Airborne Toxic Control Measure for Stationary Compression Ignition Engines* particulate matter (PM) emission standard of 0.15 g/bhp-hr were used to calculate the annual emissions of diesel PM.

Table 3.1 – Facility Emissions Summary

Pollutant	Emissions (lb/yr)
Diesel PM	2.20

4.0 RESULTS

The cancer and chronic non-cancer risks are higher at the maximally exposed individual resident (MEIR) than at the maximally exposed individual worker (MEIW). Table 4.1 displays the cancer and chronic non-cancer risk results at the MEIR. All of the calculated risk values are below the District's significance thresholds.

Table 4.1 – Summary of Screening Tool Results

Pollutant	C_{annual} at MEIR ($\mu g/m^3$)	Cancer Risk (per million)	Chronic Non-Cancer Risk (Hazard Index)
Diesel PM	0.00541	**4.11**	**0.00108**

5.0 REFERENCES

- Risk notification levels were adopted by the Santa Barbara County Air Pollution Control Board of Directors on June 1993. The risk notification levels were set at 10 per million for cancer risk and a Hazard Index of greater than 1.0 for non-cancer risk.
- California Air Resources Board. May 2011. *Final Regulation Order: Amendments to the Airborne Toxic Control Measure for Stationary Compression Ignition Engines*. https://www.arb.ca.gov/diesel/documents/FinalReg2011.pdf.
- Office of Environmental Health Hazard Assessment. February 2015. *Air Toxics Hot Spots Program: Risk Assessment Guidelines*. California Environmental Protection Agency. http://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.
- Santa Barbara County Air Pollution Control District. July 2019. *Modeling Guidelines for Health Risk Assessments.* http://www.ourair.org/wp-content/uploads/apcd-15i.pdf.

ATTACHMENT D
Air Toxics Documentation

- Santa Barbara County Air Pollution Control District. 2019. *DICE Health Risk Assessment Screening Tool*. https://www.ourair.org/dice-health-risk-assessment-screening-tool/.

6.0 ATTACHMENT

The DICE Screening Tool spreadsheet for this permit may be found in the following location:
\\sbcapcd.org\shares\Groups\ENGR\WP\VAFB\ATCs\ATC 15691\ATC 15691 DICE Screening Tool

apcd air pollution control district
SANTA BARBARA COUNTY

September 13, 2021

Certified Mail 9171 9690 0935 0268 3951 05
Return Receipt Requested

Kimberlee Harding
Vandenberg SFB, Space Launch Delta 30
1028 Iceland Avenue, 30 CES/CEIEC
Vandenberg AFB, CA 93437-6010

FID: 10641
Permit: AP 15691
SSID: 10506

Re: Notice of Final Authority to Construct/Permit to Operate 15691 Issuance
Fee Due: $ 534

Dear Ms. Harding:

Enclosed is the final Authority to Construct/Permit to Operate (ATC/PTO) No. 15691 for the Stationary Diesel-Fired Emergency Standby Engine(s) at Building 2 in Orcutt. Please carefully review the enclosed documents to ensure that they accurately describe your facility and that the conditions are acceptable to you.

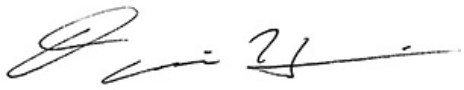
This permit requires you to:

- Pay a **fee** of $534, which is due immediately and is considered late after 30 calendar days from the date stamped on the permit. Pursuant to District Rule 210.IV.B, no appeal shall be heard unless all fees have been paid. See the attached invoice for more information.
- Mail us the enclosed Start-up Notification postcard once you have completed construction of the permitted equipment and are ready to operate it.
- Follow the conditions listed on your permit. Pay careful attention to the recordkeeping and reporting requirements.
- Comply with the applicable requirements of the State's *Airborne Toxics Control Measure for Stationary Compression Ignition Engines* (see http://www.ourair.org/dice-atcm/).
- Promptly report changes in ownership, operator, or your mailing address to the District.

If you are not satisfied with the conditions of this permit, **you have thirty (30) calendar days from the date of this permit issuance notice to appeal this permit to the Air Pollution Control District Hearing Board** (ref: California Health and Safety Code, §42302.1). Any contact, discussions, or meetings with District staff regarding the terms of this permit during or after permit issuance do not constitute an appeal under Rule 209 or the California H&SC and will not stop or alter the 30-day appeal period. Only a formal application to the Hearing Board can initiate an appeal. You may contact the Clerk of the Hearing Board for specific information concerning appeal initiation and procedures. If you accept the permit by commencing construction or operation of the newly permitted equipment, you forfeit any right to pursue an appeal of this permit action.

Please include the facility identification (FID) and permit numbers shown at the top of this letter on all correspondence regarding this permit. If you have any questions, please contact Agnieszka Letts of my staff at (805) 961-8821 or LettsA@sbcapcd.org.

Sincerely,



David Harris, Division Manager
Engineering Division

enc: Final ATC/PTO 15691
Final Permit Evaluation
Invoice # AP 15691
Start-up Notification Postcard

cc: VSFB - Orcutt 10641 Project File
Engr Chron File
Accounting (Invoice only)
Agnieszka Letts (Cover letter only)

\\sbcapcd.org\shares\Groups\ENGR\WP\VAFB\ATC-PTOs\ATC-PTO 15691\ATC-PTO 15691 - Final Letter - 8-26-2021.docx

air pollution control district
SANTA BARBARA COUNTY

Inspection Report
ENF - 11

Santa Barbara County Air Pollution Control District
260-A N San Antonio Rd, Santa Barbara, CA 93110

Inspection Information						
Inspector	Marina Lupini	Date	09/03/2024	Time	10:00	14:00
Category	Permitted Facility		Type	Routine, Fugitive Leak – Rule 331	Announced	No

NOV No	Rule Violated
13812	Crude Oil Production and Separation
13812	Conditional Approval of ATC or PTO

General Information					
SSID	02667	FID	01517	Inspection #	54020
Permit(s)	Reeval 08896 R12 :: Onshore Oil & Gas, Trn O/O 08896 03 :: Onshore Oil & Gas				
Facility	Careaga Lease				
Company	Newbridge Acquisition Holdings, LLC.				
Contact			Telephone #		
Facility Address	Careaga Lease, Orcutt Hill Oilfield (10910) (10910)				
City	Santa Barbara County	State	CA	Zip	93456

air pollution control district
SANTA BARBARA COUNTY

Inspection Report
ENF - 11

Santa Barbara County Air Pollution Control District
260-A N San Antonio Rd, Santa Barbara, CA 93110

Comments		

I was escorted during my inspection by Marianne Strange, PCEC authorized agent.

The following equipment was inspected with a Thermo-Scientific TVA-2020 for evidence of fugitive hydrocarbon emissions (leaks):

Active Wells:

51, B-1, 18, 88, 45, 24

Idle Wells: 3, 4, 5, 11, 73, 25, 23

Monterey Tank Battery (Wash Tank, Stock Tank #1 and #2, Wastewater Tank, V-306)

The following leaks were discovered during my inspection:

1. Rule 331 minor leak from stuffing box (pump seal) of active well 51, 2600 parts per million (ppm) methane; leak was repaired and repair verified while I was onsite

2. Leak of 70,000 ppm methane emanating from the ground near idle well 3. The source dug around the well and discovered that the source of the leak was a crack in the cement around the well conductors and casing lines. The source subsequently petitioned for an emergency variance, and the variance was granted on September 13, 2024 providing coverage from September 4, 2024 through October 3, 2024. Notice of Violation (NOV) 13812 was issued October 2, 2024 for failing to control the emissions of produced gas at all times as required by District Rule 325.E.1 and District Rule 206 (Condition 10 of Reeval 08896 R12).

No other leaks were found during my inspection. All well cellars observed during my inspection were Rule 344 compliant.

My review of facility records indicates that source tests for the facility's thermal oxidizer (Device ID 386807) and Steam Generator (Device ID 115058) were performed and passed in August 2024. Recent portable analyzer monitoring results for the Steam Generator demonstrate compliance with applicable emissions limitation. Facility monitoring records document compliance with the requirements for monitoring H2S content of fuel gas for both the Diatomite and Monterey formations.

No additional violations were found during my inspection.

For more information, please refer to the following attachments:

1. Inspection Photos
2. Records provided by Marianne Strange

Engineering Notes
Please refer to Aimee's comments on Inspection 51386, several of these ATCs are still showing up in the database as active permits but are no longer applicable.

Completed by	Marina Lupini	Completed Date	10/02/2024
Reviewed by	Eric Kett	Reviewed Date	12/20/2024
		Finalized Date	

Email Delivery
LTamura@santamariaenergy.com

October 26, 2018

Santa Maria Energy
Attn: Laurie Tamura
PO Box 7202
Santa Maria, CA 93456

RE: Notice of Violation #11365

Dear Ms. Tamura:

Enclosed you will find Notice of Violation (NOV) #11365 documenting a violation of District Rule 206 by exceeding the total sulfur content (reported 61 ppmv, limit 50 ppmv) during the August 14, 2018 Thermal Oxidizer source test. This is violation of Condition 2.d of PTO 13986.

Additional information regarding the exceedance was previously provided to the District. The information provided will be taken into consideration during the Mutual Settlement process. Please return a signed copy of this NOV within ten (10) days of receipt to: longa@sbcapcd.org. Alternatively, the NOV response may be mailed to my attention to: 301 E. Cook Street, Ste. L, Santa Maria, CA 93454.

You will receive a separate letter from Mutual Settlement detailing the violation resolution. Please refer to the District's Policy and Procedures regarding Mutual Settlement available at: http://www.ourair.org/wp-content/uploads/VII.D.pdf.

If you have any questions regarding this matter, please contact me at (805) 614-6793, or longa@sbcapcd.org.

Sincerely,

Aimee Long
Air Quality Specialist

Enclosed: NOV #11365

cc: FID File (#01517)

Our Vision Clean Air

Santa Barbara County
Air Pollution Control District

NOTICE OF VIOLATION

11365
VIOLATION NUMBER

September 17, 2018
DATE OF DISCOVERY

August 14, 2018
DATE OF VIOLATION

NAME Santa Maria Energy PHONE (805) 304-4290

ADDRESS PO Box 7202, Santa Maria, CA 93456

LOCATION OF VIOLATION Careaga Lease, Orcutt Hill Oilfield, N. Santa Barbara County, CA

FID # 01517 PERMIT / REG / NOTIF # PTO 13986

YOU ARE HEREBY NOTIFIED THAT PURSUANT TO SECTION *42301* OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA A VIOLATION HAS BEEN COMMITTED THROUGH THE FOLLOWING ACT: VIOLATION OF DISTRICT RULE(s): 206

BY: Exceeding the total sulfur content during the August 14, 2018 source test.

ATTENTION: Immediate action must be taken if necessary to prevent violation from continuing. Return a copy of this document within ten (10) days with a written description of the corrective action taken. Direct this information to the attention of the individual who issued the notice of violation.

Served to: Laurie Tamura By: Aimee Long

Title: Permitting and Development Manager Title: Air Quality Specialist

Sent Via email # LTamura@santamariaenergy.com Date October 26, 2018

ENF-75 (09/21/2011)

Aeron Arlin Genet • Air Pollution Control Officer
260 North San Antonio Road, Suite A • Santa Barbara, CA • 93110 • 805.961.8800
OurAir.org • twitter.com/OurAirSBC

apcd air pollution control district
SANTA BARBARA COUNTY

Sent via Electronic Mail to Philip.brown@pceclp.com; ; Read Receipt Requested

October 2, 2024

Philip Brown, COO
Newbridge Resources, LLC
1555 Orcutt Hill Rd
Orcutt, CA 93455

FID: 01517
Permit: 08896 R12
SSID: 02667

Re: Notice of Violation 13812

Dear Philip Brown:

Enclosed you will find Notice of Violation (NOV) 13812 documenting violations of District Rules 206 and 325 which were discovered on September 3, 2024 during a routine inspection of the Careaga Lease in the Orcutt Field, at which time I observed fugitive hydrocarbon emissions (leak) emanating from the ground near Careaga Well #3 at a rate of 70,000 parts per million (ppm). On the day the leak was discovered, the well was dug out and a crack in the cement around the well conductors and casing lines was identified as the source of the leak. District Rules 206 and 325.E.1 were violated by failing to control the emissions of produced gas at all times as required by Rule 325 and Condition 10 of Reevaluation 08896 R12, the facility's permit.

Please email an NOV response, including a signed copy of the enclosed NOV, to LupiniM@sbcapcd.org within 10 business days of receipt. An NOV response may also be mailed to my attention at: 301 E. Cook St, Ste. L, Santa Maria, CA 93454. You may sign anywhere on the enclosed NOV forms. Note that Emergency Variance 2024-08-E was granted on September 13, 2024, granting variance coverage for this violation effective September 4, 2024 through October 3, 2024. Documentation of the return to compliance will be provided in the written variance report due October 17, 2024 per the variance order. You may wish to include in this NOV response information about how you will prevent recurring violations. You will receive a separate letter from Mutual Settlement detailing the NOV resolution. Please refer to the District's Policy and Procedure regarding Mutual Settlement available at: http://www.ourair.org/wp-content/uploads/VII.D.pdf.

If you have any questions regarding this matter, please contact me at (805) 979-8305 or LupiniM@sbcapcd.org.

Sincerely,

Marina E. Lupini
Air Quality Specialist, Compliance Division
CC: Marianne Strange, Authorized Agent mstrange@mfsair.com

apcd air pollution control district
SANTA BARBARA COUNTY

13812
VIOLATION NUMBER

NOTICE OF VIOLATION

09-03-2024
DATE OF DISCOVERY

09-03-2024
DATE OF VIOLATION

NAME Newbridge Resources, LLC PHONE (805) 937-2576

ADDRESS 1555 Orcutt Hill Rd

LOCATION OF VIOLATION Careaga Lease, Orcutt Field

FID # 01517 PERMIT / REG / NOTIF # Reeval 08896 R12

YOU ARE HEREBY NOTIFIED THAT PURSUANT TO SECTIONS 42301 and 40702 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA A VIOLATION HAS BEEN COMMITTED THROUGH THE FOLLOWING ACT: VIOLATION OF DISTRICT RULE(s): 206 and 325.E.1 BY:

Failing to control the emissions of produced gas at all times as required.

Served to: Philip Brown By: Marina E. Lupini

Title: COO Title: Air Quality Specialist III

Sent via Electronic Mail on: October 2, 2024 Date: October 2, 2024

ENF-75 (09/21/2011)

Aeron Arlin Genet, Air Pollution Control Officer
(805) 979-8050 | 260 N. San Antonio Rd., Ste. A Santa Barbara, CA 93110 | ourair.org | @OurAirSBC

VIA ELECTRONIC MAIL
ltamura@santamariaenergy.com

August 24, 2016

Santa Maria Energy
Laurie Tamura
2811 Airpark Drive
Santa Maria, CA 93455

RE: Notice of Violation #11013

Dear Ms. Tamura,

Enclosed you will find Notice of Violation (NOV) #11013 documenting a violation of District Rule 331.D.3. This violation was documented during a routine inspection conducted at the Careaga Lease on 08/11/2016.

Due to corrective actions already performed by Santa Maria Energy staff, no further action is necessary.

You will receive a separate letter from Mutual Settlement detailing the NOV resolution. Please refer to the District's Policy and Procedures regarding Mutual Settlement available at: http://www.ourair.org/wp-content/uploads/VII.D.pdf.

If you have any questions regarding this matter, please contact me at 805-614-6788, or mjm@sbcapcd.org.

Sincerely,

Mike McKay
Inspection Specialist

Enclosed: NOV #11013

cc: Chron File
FID File (#01517)

Our Vision Clean Air

Santa Barbara County
Air Pollution Control District

NOTICE OF VIOLATION

11013
VIOLATION NUMBER

08/11/2016
DATE OF DISCOVERY

08/11/2016
DATE OF VIOLATION

NAME Santa Maria Energy PHONE (805) 621-5626

ADDRESS 2811 Airpark Drive, Santa Maria, CA 93455

LOCATION OF VIOLATION Careaga Lease

FID # 01517 PERMIT / REG / NOTIF # PTO 08896-R9

YOU ARE HEREBY NOTIFIED THAT PURSUANT TO SECTION 40702 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA A VIOLATION HAS BEEN COMMITTED THROUGH THE FOLLOWING ACT: VIOLATION OF DISTRICT RULE(s): Rule 331.D.3

BY: operating with an open-ended line leaking in excess of 1,000ppm during an APCD inspection.

ATTENTION: No further action is necessary.

Served to: Laurie Tamura By: Mike McKay

Title: Permitting and Development Manager Title: Inspection Specialist

Sent Via Electronic Mail # ltamura@santamariaenergy.com Date August 24, 2016

ENF-75 (09/21/2011)

air pollution control district
SANTA BARBARA COUNTY

Inspection Report
ENF - 11

Santa Barbara County Air Pollution Control District
260-A N San Antonio Rd, Santa Barbara, CA 93110

Inspection Information						
Inspector	Marina Lupini	Date	03/07/2024	Time	09:00	11:00
Category	Permitted Facility		Type	Routine, Fugitive Leak – Rule 331	Announced	No

NOV No	Rule Violated
13623	Crude Oil Production and Separation
13623	Conditional Approval of ATC or PTO

General Information					
SSID	02667	FID	03321	Inspection #	53779
Permit(s)	ATC 16121 :: Onshore Oil & Gas, PT-70/Reeval 08240 R11 :: Onshore Oil & Gas				
Facility	Newlove Lease				
Company	Pacific Coast Energy Company LP				
Contact	Phil Brown		Telephone #		
Facility Address	1555 Orcutt Hill Rd				
City	Orcutt	State		Zip	

air pollution control district
SANTA BARBARA COUNTY

Inspection Report
ENF - 11

Santa Barbara County Air Pollution Control District
260-A N San Antonio Rd, Santa Barbara, CA 93110

Comments		

I was escorted by PCEC Authorized Agent Marianne Strange during my inspection.

The following equipment and areas were inspected for fugitive, hydrocarbon emissions (leaks) with a FLIR GFX 320 infrared camera for methane detection and a Thermo-Scientific Toxic Vapor Analyzer (TVA)-2020:
Steam generator SG400, gas scrubbers V665 A/B, gas blend skid, V505 and V500, V115 fuel gas scrubber, inlet scrubber, three phase separator V600, vapor recovery skid, gas knockout V316/317, condensate knockout V315, H2S removal towers V380A/B (V-380 A was empty during the inspection), gas compressor skid K4, vapor recovery units 1/2, produced water and oil tank WT5564, stock tank T5563 ST-3, stock tank 5586 ST, produced water and oil tank WT-1*, active wells 3, 317, 002, 307, idle wells Test Hole #2, 303, 111H, and 40.

*The replacement of tank WT-1 has been permitted by Authority to Construct (ATC) 16121, issued 2/24/24, IPAP issued September 2023. I observed the tank onsite. A Source Compliance Demonstration Period (SCDP) inspection will be conducted at a future date pending the submittal of the final component leakpath inventory.

At active well 002 I discovered fugitive emissions to be emanating from the ground at a rate of 78,000 parts per million (ppm) methane. Notice of Violation (NOV) 13623 was issued on April 10, 2024 for failing to control emissions of produced gas at all times as required by Condition 9.C.7 of Reeval 08240-R11 and District Rule 325.E.1. Note that the source submitted a request for an emergency variance for this issue on the inspection date and the request was approved. On March 22, 2024 Marianne Strange provided proof of repair which occurred on March 11, 2024, returning the violation to compliance.

No other violations were found during my inspection.

TVA Calibration Information:
3-7-24 10:00 AM
Span Counts: 2844416
Zero Counts: 4723
Calibration Counts 283.97
Calibration OK.

Attachments:
1. Inspection Photos

Engineering Notes
The new tank permitted by ATC 16121 was observed during my inspection but the SCDP inspection has not yet been performed pending submittal of the as-built fugitive component leakpath inventory

Completed by	Marina Lupini	Completed Date	04/10/2024
Reviewed by	N/A	Reviewed Date	N/A
		Finalized Date	05/15/2024

Appendix K

Previous Environmental Report

Excerpts

October 22, 2001

Environmental Site Assessment
Orcutt Hill Area
Santa Barbara County, California

Prepared for

Nuevo Energy Company
c/o Ullom Associates
16149 Redmond Way, Suite 401
Redmond, Washington 98052

Harding ESE Project No. 640268

Anthony Marino
Senior Project Geologist

Donald A. Pape, R.G.
Principal Hydrogeologist

Harding ESE
A MACTEC COMPANY

2171 Campus Drive, Suite 100
Irvine, CA 92612
Phone (949) 224-0050
Fax (949) 224-0073

4473

EXECUTIVE SUMMARY

Harding ESE, Inc. (Harding ESE), has prepared this Environmental Site Assessment (ESA) for the Orcutt Hill Area (the Site) located in Santa Barbara County, California. This ESA was conducted on behalf of Nuevo Energy Company (Nuevo). Harding ESE's project team includes Mr. Tony Marino, Mr. Ercan Candan, Mr. David Kea, and Mr. Donald Pape, RG.

The properties included in this ESA are:

- Parcels 1-3, 14 (located on the Pinal Fee)
- Parcels 4-8 (located on the Hobbs Fee)
- Parcel 9 (located on the Dome Fee)
- Parcels 10-12 (located on the Kaiser Fee)
- Parcel 13 (located on the Elasser Fee)
- Parcels 15 (located on the Folsom Fee)
- Parcel 16 (located on the Newlove and Careaga Fees)
- Parcel 17

Parcels 1 through 16 are located west of Highway 101, and Parcel 17 is located east of the highway. Nuevo owns the parcels. Access to Parcels 1 through 16 is available from Rice Ranch Road, and Parcel 17 is accessible from an unnamed exit off Highway 101.

Based on Harding ESE's historical research, the Site is part of the Orcutt Hill oil field, which was developed as early as 1901. The adjacent properties to the north, west, south, and east were developed for oil production and/or ranchland for cattle grazing.

A total of approximately 214 oil wells have been drilled on the Site.

A review of aerial photographs identified buildings, aboveground storage tanks (ASTs) and facilities associated with oil production on the Site.

An inspection of the Site conducted during April and July 2001 included walking/driving the grounds and performing a driveby reconnaissance of the adjacent properties. During the inspection, stained soils, ASTs, oil-field facilities and equipment, test headers, pipelines, and chemical storage were observed. Pole-mounted transformers are located on the Site.

No currently active oil-field production was observed on Parcels 1, 2, 10, 11, 12, 13, 14, and 17.

The following areas of potential environmental concern were identified on the Site: soils adjacent to oil wells, sumps, pipelines, chemical storage and usage, test headers, condensate traps, current and former ASTs, current and former buildings and facilities, and storage areas.

3.0 SITE HISTORY

3.1 History of Property Use

Harding ESE reviewed historical Site and adjacent property use to assess whether prior owners of the Site or adjacent properties may have conducted activities that could pose environmental concerns at the Site. Harding ESE's research included reviewing past site reports, researching regulatory agency file records, and reviewing historical topographic maps and historical aerial photographs. Harding ESE's sources of historical information included the following:

- USGS topographic maps dated 1905, 1942, 1948, 1959, and 1967 (photorevised).
- Dames & Moore Phase I ESA report dated January 1995.
- Black-and-white historical aerial photographs dated 1938, 1956, 1960, 1967, 1969, 1970, 1974,1977 and 1989. The University of California, Santa Barbara (UCSB) Map and Imagery Library and the U.S. Department of Agriculture (USDA) provided the aerial photographs.
- Historical information researched at the UCSB Library.

3.2 Oil Field Development

Small asphalt mining operations were conducted in the Solomon Hills prior to the discovery of oil in the area. Union Oil Company (Union Oil) began leasing property, including the Hobbs, Fox, and Folsom leases in 1902-03. Meanwhile, others were prospecting for oil in the hills south of Graciosa Ridge. In March 1900, A.H. McKay, H. Jeune, and Judge Bicknell formed Western Union Oil Company, leased large portions of the Careaga Ranch, and began drilling operations. In August 1901, the first commercial oil well in the Santa Maria district was constructed (Tamura, 1986).

The Pinal Oil Company was formed in 1901 and began drilling operations on the north side of the Graciosa Ridge. In 1903, its third well struck oil. Many of the smaller oil companies were either bought by the larger companies or went out of business. The Pinal and Dome companies first merged to form Pinal-Dome Oil Company in 1912, and then sold their properties to Union Oil in 1917 (Tamura, 1986).

Oil workers' camps were established among the derricks on the hillsides. Workers and their families lived there for years, first in "tent cities" and later in cottages. Many of the houses were built by Union Oil for its employees. The population in the hills was large enough to require the formation of three additional school districts between 1904 and 1908. The Bicknell and Careaga School Districts were south of Graciosa Ridge. The Newlove School District was located on Union Oil property on Newlove Hill (now known as Orcutt Hill). The school constructed by the district is a large, two-room structure used today for community gatherings (Tamura, 1986).

Oil production in the Orcutt field rose from 95,000 barrels (bbl) per year in 1902 to 3,742,249 bbl annually by the middle of 1920. After 1922, Union Oil adopted changes in its operations that sharply reduced the workforce. Concerned with how best to conserve oil in its natural reservoir, the company introduced the technique of well-spacing to the field, shutting in 67 of its 223 wells for 5 years (Tamura, 1986).

By the mid-1950s, secondary recovery processes were used by Union Oil as an integral part of producing crude oil. By 1957, Union Oil was employing gas injection, water flooding, and underground burning at the Orcutt field (U.S. Department of the Interior [USDI], 1998).

A Union-led revival of production in the Orcutt field increased output from 899,000 bbl in 1961 to 2.5 million bbl in 1967. Beginning in the 1960s, operators employed secondary recovery methods and intensive rework, redrilling, and development efforts to revive production (USDI, 1998).

In 1996, Nuevo acquired the Orcutt Hill area from the Unocal Corporation (Unocal, formerly Union Oil).

3.3 Historical Operating Conditions

This section on historical operating conditions was obtained from Unocal personnel (primarily Whitey Province, former Orcutt Hill production foreman), site information, and site observations compiled in the Phase I ESA conducted by Dames & Moore during 1994.

3.3.1 Unocal Operated Fees

ORCUTT HILL COMPRESSOR PLANT

The Orcutt Hill Compressor Plant is located on the Newlove Fee. The primary purpose of the plant is to gather gas from the wells and compress the gas for distribution and sale. The plant area is also used as a central field location for administration and maintenance activities. Buildings at the plant include an office, two compressor buildings, a laboratory, a maintenance shop, a paint shop, a welding shop and various storage buildings. Major equipment located at the plant includes compressors, jacket water coolers for the compressors, and various scrubbers used to remove fluids from the gas prior to distribution.

Old equipment and parts are stored on various portions of the compressor plant area. Water from the washdown of equipment and shop buildings is generally collected by drains connecting to an AST located downhill from the plant. This tank has an approximately 350-bbl capacity and is located within an earthen berm along with a 1,000-bbl "road oil" tank. The road-oil tank was used to store oil recovered from spills on the property or from separation ponds on other Unocal properties. The oil was then used in making road base material (Dames & Moore, 1995).

ASTs located at the compressor plant in 1994 included the following:

Capacity (bbl)	Contents/Use
2,000	Water injection holding tank
38,000	Nonpotable fresh water
240	Absorption oil
240	Condensate from compressors
40	Diesel
180	Lube oil

The injection and lube-oil tanks were located within earthen berms. The absorption-oil andcondensate tanks were located in a concrete-diked area. A 320-bbl absorption-oil AST was formerly located in this concrete-diked area. A propane tank, located next to the laboratory, is used for fueling field vehicles (Dames & Moore, 1995).

Several small-capacity ASTs containing solvents, oils, and various other chemicals for equipment maintenance were located in the area. The majority of these tanks had some type of secondary containment,

such as concrete dikes or plastic basins. Oils and chemicals were also stored in drums throughout the area (Dames & Moore, 1995).

An underground storage tank (UST) for gasoline was located next to the laboratory drainage AST. This tank was reportedly removed in December 1989. One single-walled 10,000-gallon gasoline UST was located on the Newlove Fee across the access road from the office and shop buildings. An application to abandon the UST, dated June 23, 1989, indicated that the tank would be pulled out of the ground, bottom samples collected and analyzed, and the hole backfilled. The tank would be disposed of at American Metal Recycling, Inc. A letter from Santa Barbara County Environmental Health Services (SBCEHS) dated August 31, 1989, approved the application for removing the UST. An SBCEHS letter dated March 15, 1990, verified the removal of the tank and analytical testing. No further testing was required (Dames & Moore, 1995).

Drums of glycol and empty drums were stored next to the injection holding tank. Glycol is used in the scrubbers to remove fluid from the gas prior to distribution. The glycol distributor recycles empty drums on a regular basis (Dames & Moore, 1995).

OIL WELLS

The Site has active oil wells, idle production wells, water injection wells, and plugged and abandoned wells. The injection wells inject clarified water into the producing formation to enhance recovery. Active oil production wells typically are equipped with a pumping unit, rods, and piping. The pumping units were generally mounted on concrete foundations, and the well cellars range from 5 to 6 feet in diameter and 6 feet in depth. The sides of the cellars are lined with either concrete or metal culvert piping and have concrete-lined bottoms. The cellars appeared to be well maintained, and standing oil was not observed in any of the cellars (Dames & Moore, 1995).

In most cases, the pumping unit has been removed from idle production wells. Water injection wells consist of a wellhead and associated piping and valves on a concrete slab. Some piping between wells in the field was painted purple to indicate whether caustic solution from a former caustic plant had been added to the injection fluid (Dames & Moore, 1995).

Soil staining was commonly observed around the majority of active production wells. Theareal extent of this staining was generally limited to about a 3-foot diameter around the wellhead. According to Unocal

personnel, the cellars were periodically cleaned out and the stained soil reused as road base material (Dames & Moore, 1995).

Drums or other containers of oil-field production chemicals, including demulsifier and corrosion inhibitor used for well maintenance, were observed at several of the wells. A contractor services the active wells, removes used gear oil, and transports it offsite. In the past, gear oil may have been disposed on the ground near the wellhead (Dames & Moore, 1995).

TANK BATTERIES/HEADERS

Produced fluid/gas from wells is piped to a setting equipped with a test vessel and a gas trap. At this setting, produced fluids from individual wells can be tested by routing them through a header to a test vessel. When not being tested, produced fluids and gas are piped through a gas trap for gas/fluid separation. The separated gas is sent to the compressor plant, while fluids (oil and water) are sent to one of several tank batteries, depending on the location of the well. Small-capacity ASTs containing corrosion inhibitor, emulsifier, or other treatment chemicals were generally observed to be associated with the header/gas trap settings. Injection "plants" are associated with some of the tank batteries. Injection plants consist of pumps that pump produced water from the tank batteries to the injection wells (Dames & Moore, 1995).

The Newlove Fee Tank Battery is located in the southern portion of the Newlove Fee (Parcel 16) and is associated with the Newlove Flats Injection Plant. The tank battery consists of three 3,000-bbl wash tanks, a 2,000-bbl crude-oil stock tank, and a flotation cell or "Wemco." The four ASTs are located within an earthen berm. Two of the wash tanks and the Wemco were idle at the time of the 1994 site inspection (Dames & Moore, 1995).

At the Newlove Tank Battery, produced fluids are first pumped to the wash tank after gases are removed at the gas trap setting. The gas trap setting was on the hill above the tank battery. In the wash tank, oil and water are separated and the water is pumped to a 10,000-bbl injection tank. Oil separated from the water is pumped to the stock tank, then shipped offsite for distribution and sale via a Lease Automatic Custody Transfer (LACT) unit. Produced water is pumped from the 10,000-bbl injection tank at the nearby Newlove Flats Injection Plant (Figure 2) and injected into various injection wells throughout the property. The tank battery is connected to a vapor recovery system located next to the gas trap on the hill. The vapor recovery system consists of scrubbers, pumps, and other vessels.

The Newlove Fee 67 Injection Plant is located west of the compressor plant on the Newlove Fee. This plant consists of injection pumps and ASTs storing lube oil for the pump engines. Additionally, a lube-oil recovery system is located in this area. This system consists of a 180-bbl separator tank, a 100-bbl oil reclamation tank, and a 90-bbl lube-oil tank. The injection tank for this plant is located at the Orcutt Hill Compressor Plant.

A "caustic plant" used to soften produced water prior to injection was formerly located near the Newlove Fee Flats Injection Plant. This plant consisted of several tanks, some of which have been removed. Several of the remaining tanks were cleaned out and remained on the property (Dames & Moore, 1995)

The Pinal Tank Battery (Parcel 3) consists of a 3,000-bbl wash tank, a 3,000-bbl crude-oil stock tank, and a 1,000-bbl injection tank located in an earthen berm. Near this tank battery is the Pinal Injection Plant, consisting of injection pumps and a crude-oil loading rack with a LACT unit. Next to the loading rack is a lube-oil recovery station consisting of a 450-gallon separator tank and a 450-gallon lube-oil tank, as well as a 240-bbl "loading rack" tank. A 5,000-bbl overflow tank is located on the northern end of the tank battery/injection plant area. This tank is located within an earthen berm and is used to store clarified water from the tank battery. The water is then pumped back to the 1,000-bbl injection tank in the tank battery prior to injection. During the 1994 inspection, several small-capacity ASTs containing lube oils and chemicals were located next to the injection plant. Staining (approximately 10 square feet [ft^2]) was observed around the ASTs and machinery in the vicinity of the plant.

In 1992, seven tanks were listed as being on the Pinal Fee:

- A more-than-20-year-old 3,000-bbl wash tank
- A 10-year-old 3,000 bbl wash tank
- A 20-year-old 2,000-bbl emergency overflow tank
- A 20-year-old 1,000-bbl source water tank
- A 20-year-old 3,000-bbl Fox source tank
- A 20-year-old 1,000-bbl oil production tank
- A 2-year-old 750-bbl wash tank.

In 1994, the following facilities were listed as being on the Pinal Fee:

- A 180-bbl separator vessel
- A 3,000-bbl wash tank
- A 750-bbl wash tank
- A 2,000-bbl oil production tank
- A 1,000-bbl overflow tank
- A 1,000-bbl source water tank

- A 1,680-gallon lube-oil tank
- A loading rack
- A 3,000-bbl Fox source tank
- A 5,000-bbl wastewater tank.

According to Mr. Province, additional ASTs were formerly located on the Newlove Fee. In some cases, a cleared area was visible in the former tank location, but soil staining or other surficial evidence of these former tanks was not observed (Dames & Moore, 1995).

In 1990, two gas/oil separator tanks were listed as present on the Folsom Fee. In 1994, a 3,000-bbl tank used only for emergencies was located on the Folsom Fee (Dames & Moore, 1995).

OIL SEEPS

A small rectangular AST was observed next to Newlove Fee Well 61. Oil from a shallow zone was seeping around the outside of the well casing, which is not perforated in this zone, and was temporarily contained in this tank. The oil was transported to a tank battery for processing (Dames & Moore, 1995).

PITS/PONDS/SUMPS

Unlined earthen mud pits were typically constructed at each well site at the time of drilling and have since been backfilled and abandoned with the drilling waste left in place. Several of the tank batteries and/or injection plants have associated concrete-lined pits and/or sumps used to collect overflow or spills. The contents of the pits are pumped back into wash tanks for separation. The pits or sumps that were observed appeared relatively clean with little or no surrounding staining. The pits listed in Unocal's Santa Barbara County Air Pollution Control District (SBCAPCD) permit were one 6-foot- and one 2-foot-diameter overflow pit next to the road-oil AST, four wastewater pits at the Newlove Fee Flats facility (diameters of 5 feet, 4 feet, 3 feet, and 2 feet), one 9-foot^2 wastewater sump, a 4-foot diameter sample cut sump, and five 4-ft^2 pits at the Pinal facility. In addition, there are similar pits at the Newlove 67 Injection Plant (Dames & Moore, 1995).

An unlined oil-mixing pit is located near Newlove 77. During the 1970s, vacuum trucks dumped residual oil in this area, along with tank bottoms and spill cleanup waste. No dumping was performed in this area, although the oily soil was used for road base. A pile of partially stained soil was observed in this area during the 1994 inspection (Dames & Moore, 1995).

Concrete-lined sumps located in the vicinity of the old caustic plant were used for holding produced water prior to treatment at the plant. The exact location of these sumps or procedures used in their abandonment are not known. Unocal abandoned the Newlove 50 sump in October 1994 (Dames & Moore, 1995).

DUMPSITES

A salvage area for miscellaneous oil-field equipment, vessels, and drums was present on the Dome Fee. Mr. Province located known trash pits or dumpsites (Figure 2). Areas designated as trash pits were once used by property residents for the dumping of normal household trash. Designated dumpsites are areas of other dumping, including concrete rubble, tree stumps, household appliances, furniture, and other miscellaneous waste (Dames & Moore, 1995).

A concrete-lined pit, which appeared to be the cellar of a former building located near the Newlove Tank Battery, contained household waste and rubble. This pit was cleaned out and backfilled by Unocal (Dames & Moore, 1995).

Sulfide chips from oxide bed vessels at the compressor plant were dumped on the Harris (Graciosa) Lease in the 1950s. This material was also dumped near the road-oil and compressor plant drain tanks. Mr. Province reported that some of this material had been cleaned up and disposed of, but the extent of the cleanup was not known. The oxide vessels were reportedly removed from the compressor plant around 1985 (Dames & Moore, 1995).

ADDITIONAL INFORMATION

A thin layer of crude oil was once sprayed on hillsides to prevent erosion. This practice was discontinued in approximately 1985-86 and replaced by the use of a biodegradable substance. Several compressor plants were formerly located throughout the property. Concrete blocks and other rubble were observed in these locations, no soil staining was observed in these areas (Dames & Moore, 1995).

Brea (a hard, dry, tarry material) from a large historic oil spill (circa 1960s) was observed on the Newlove Fee. The spill had hardened and resembled asphalt and was approximately 70 feet wide by 300 feet long. The spill originated from a tank overflow at the Newlove Fee Tank Battery. The area of the spill was discontinuous because road construction through the area had broken up the hardened material (Dames & Moore, 1995).

Oil-impacted soil was stockpiled on the Pinal Fee near the northern entrance to the Orcutt Field property. This soil was from other Unocal properties in the area and was to be used as road base or for berm construction on the Orcutt Hill Area properties (Dames & Moore, 1995).

Red rock, used in the past for road base material and well pads, was mined from a quarry on the Dome Fee.

TRANSFORMERS

Electricity is provided to the property by Pacific Gas and Electric (PG&E). Unocal owned all of the transformers but had no records to indicate whether the transformers contained polychlorinated biphenyls (PCBs). In 1993, 17 transformers from the Orcutt Hill Area (no specific property was mentioned) were disposed of at a waste facility. Detectable concentrations of PCBs ranged from 2.6 to 54 milligrams per kilogram (mg/kg) in four of the transformers (Dames & Moore, 1995).

ASBESTOS-CONTAINING MATERIALS

Asbestos–containing material (ACM) pipe insulation had been removed from the Orcutt Hill Compressor Plant steam lines during 1991-92. One of the compressor buildings has ACM in the paneling (Dames & Moore, 1995).

HAZARDOUS MATERIALS/WASTES

Types of hazardous wastes that have been handled in the past on Unocal properties, including Orcutt Hill, include asbestos insulation from abandoned vessels, out-of-service PCB-contaminated electrical equipment, and various expired chemicals. These wastes were not generated on a frequent basis, and disposal occurred once or twice a year only at approved Class I or Class II facilities (Dames & Moore, 1995).

In 1993, an unspecified amount of oil-field site cleanup debris, empty containers, contaminated soil, organic solids, and electrical switch boxes containing asbestos were disposed of. The empty containers, organic solids, and debris are generic oil-field wastes that are generated during normal operation. These materials were shipped to a waste facility (Dames & Moore, 1995).

A hazardous materials inventory for 1994 indicated that Unocal has stored and/or used the following chemicals on the Orcutt Hill properties: Baker W-6014, Baker Cronox 607RB, lubrication oil, Unocal diesel 2, Unocal HD40, tretolite, triethylene glycol, triethanolamine, lactol spirits, Unocal S-76 solvent, fyrquel 550, crude oil, wet natural gas, reclaimed lube oil, Unocal valve oil, propane, Exxon 1979-Corexit, Exxon S11652-

Surflow, tar remover #2, Chevron detergent, and various types of Nalco, which is used as an emulsion breaker and corrosion inhibitor (Dames & Moore, 1995).

3.3.2 Careaga Fee

The former small town of Bicknell was once located on the Careaga Fee. The town was active during the 1920s through the 1940s. The property has primarily been utilized for petroleum production and livestock grazing. The surface rights currently belong to Nuevo. Shell Western Exploration and Production Inc. (SWEPI) originally owned the mineral rights on most of the Careaga Fee (approximately 650 acres) and first developed the property in the early 1900s. In 1991, the mineral rights were sold to City Oil Co., which subsequently transferred the rights to City of Santa Barbara Holdings Co. In 1993, the City of Santa Barbara Holdings Co. was involuntarily placed in Chapter 11 bankruptcy, and a trustee (Duke Salisbury) temporarily managed the property. In 1994, bankruptcy was confirmed and management of the property was transferred to Gitte-Ten, Inc. (GTI). GTI oversees petroleum production and disbursement of revenue from production. Mr. Bruce Falkenhagen of GTI and Phoenix Energy, Inc. (Phoenix) provided information regarding the history and operation of the Careaga Fee (Dames & Moore, 1995).

Several companies, including Triton Oil and Gas Corp., Santa Fe Energy, and Geo Petroleum Inc., have drilled wells on the remainder of the Careaga Fee, and Apache Oil Co., Santa Fe Energy, and Geo Petroleum apparently also operated wells on the Careaga Fee. Geo Petroleum purchased wells in 1988 that were drilled by Triton and in 1991-92, Geo Petroleum purchased wells that were drilled by City Oil. The Geo Petroleum wells were idle at the time of the 1994 inspection. Santa Fe Energy had drilled two wells on the property in 1990-91 that were active (Dames & Moore, 1995).

CAREAGA GAS PLANT

The gas plant consisted of scrubber vessels and associated chemical tanks and drums. Minimal soil staining (areas less than 4 ft^2) were observed at the gas plant. The gas plant was idle at the time of the 1994 inspection (Dames & Moore, 1995).

FIELD OFFICE

Drums of oil and chemicals were stored at the field office located immediately northwest of the gas plant. Several drums were located in plastic trays for containment of spills. A UST may have been located at the former Bicknell post office building behind the field office (Dames & Moore, 1995).

CAREAGA COMPRESSOR PLANT

The compressor plant was used for compressing produced gases for distribution. Two Ingersoll-Rand compressors were present inside a metal building. Oil staining (with an approximately 6-foot radius) was observed on the concrete around the compressors. Several concrete foundations for former buildings and/or tanks were present. Hardened oil, apparently originating from the compressor plant, was present on the hillside between the plant and Careaga 56 (Dames & Moore, 1995).

OIL WELLS

The wells were generally constructed with cellars, some of which were lined with concrete or wood and some of which were unlined. Active production wells were equipped with a pumping unit, rods, and piping. The pumping units were generally mounted on concrete foundations with the wells having lined or unlined cellars. Some of the GTI wells were connected to a jack-line cable tied to a bull-wheel pump. The majority of active GTI wells observed were producing into open-top test tanks. Some GTI wells, as well as all Geo Petroleum and Santa Fe Energy wells, were connected by pipeline to separate tank batteries on the property (Dames & Moore, 1995).

Soil staining or other evidence of oil spills was commonly observed around the majority of active and idle GTI wells and in some of the abandoned GTI well locations. Generally, the spilled oil had hardened and resembled asphalt. Stained soil areas ranged from approximately 20 to 100 ft^2 around the wellhead. Many of the well cellars observed were full of oil, including unlined cellars at GTI Wells 45, 56, and 75. The majority of test tanks also appeared to be leaking or to have leaked at one time. Large areas of hardened oil that represent former tank locations were observed near several wells including GTI Well 79 (Dames & Moore, 1995).

A large fenced-off pit was observed in the former location of GTI Well 15 near the Newlove Fee boundary. The pit was approximately 100 ft^2 in area and approximately 10 feet in depth. Concrete and wood debris and metal pipe were observed outside the fenced area. Apparently, during abandonment of a former sump on the adjoining Newlove Fee or from an improperly abandoned well, oil seeped from the ground and onto the Careaga Fee. The California Division of Oil, Gas, and Geothermal Resources (DOGGR) had investigated the incident and concluded that further digging was unnecessary because the oil had hardened and was immobile (Dames & Moore, 1995).

Produced fluid gas from the majority of the GTI wells were piped to an open-top test tank. Several blowdown scrubbers were observed throughout the property. From the test tanks, produced fluids were pumped through the scrubbers and then to the Careaga Tank Battery. Staining was observed on the soil around the AST and other equipment at a well testing facility with an associated AST near Careaga Well 44. The area of staining was approximately 30 foot^2 (Dames & Moore, 1995).

CAREAGA TANK BATTERY

The Careaga Tank Battery consists of three tanks with capacities ranging from 2,000 to 3,000 bbl within an earthen-bermed area with a concrete base. A circular gravel base appears to be the former location of a fourth tank. An internal trench collection system directs spills and surface water runoff to a sump.

Several small-capacity chemical tanks or drums were located around this tank battery. Old oil-field equipment, scrap metal and pipes, and miscellaneous trash and equipment were stored in the area west of the tank battery.

TANK BATTERY 36X

Located adjacent to Well 36X, Geo Petroleum operated a tank battery consisting of six tanks with capacities of approximately 1,000 to 3,000 bbl in addition to some smaller tanks and vessels. Oil staining was observed within an area of approximately 6 to 10 foot^2 around these tanks that appeared to be idle at the time. Openings were observed at the bottom of some of the tanks. It was not known if there was oil in any of these tanks, although one of the tanks was being used to store produced water (Dames & Moore, 1995).

TANK BATTERY 37A

Geo Petroleum operated a tank battery that consisted of two crude-oil storage tanks and two produced-water tanks adjacent to Careaga Well 37A. The tank battery was used to collect produced fluids from the wells operated by Geo Petroleum (Dames & Moore, 1995).

SANTA FE ENERGY TANK BATTERY

The tank battery consisted of three 500-bbl rectangular Baker tanks, one water tank, and associated separation equipment. The tanks were connected to a vapor recovery system that was run by an internal combustion engine. The tank battery was used to collect produced fluids from the wells operated by Santa Fe Energy (Dames & Moore, 1995).

AST

Open-top test tanks ranging in capacity from 10 to 25 bbl were observed at many of the GTI well sites, as well as tank foundation material or old oil spills that seemed to indicate former tank locations. Oil spills in these apparent former tank locations ranged from approximately 25 foot^2 to 500 foot^2. Most of the test tanks were in poor condition and appeared to be leaking or to have leaked in the past. Areas stained by historical oil releases between 50 and 500 foot^2 in size were observed around the majority of tanks and, in some cases, on a hillside. In most cases, the oil had hardened and resembled asphalt. The largest area of old oil was observed south of GTI Well 79 (Dames & Moore, 1995).

Soil staining was not observed around two large open-top former water supply tanks near Geo Petroleum Well 146D-32W (Dames & Moore, 1995).

An oil tank at the compressor plant, some water tanks, and two additional unlabeled tanks, shown on the USGS topographic map, were not observed by Dames & Moore personnel during their site reconnaissance (Dames & Moore, 1995).

PITS/PONDS/SUMPS

Unlined earthen mud pits were typically constructed at each well site at the time of drilling but have been backfilled and abandoned. The locations of the former pits were not evident, although depressions and hardened oil spills near some of the wells may indicate the presence of these sumps (Dames & Moore, 1995).

A concrete-lined sump is present at the main tank battery for collection of surface water runoff and spills. A pond shown on the USGS topographic map to the west of the GTI tank battery was not observed (Dames & Moore, 1995).

DUMPSITES

Dumpsites were observed throughout the property, generally in ditches or canyons adjacent to past or current well locations. Additionally, as mentioned above, old oil-field equipment, piping, and scrap metal were observed around the active tank battery. In general, most of the dumpsites contained wood and metal scrap, old oil-field equipment and parts, and some test tanks (Figure 2). Soil staining was not observed around these dumpsites, and steep grades or dense vegetation limited access to these areas.

A large concrete-lined open structure, located in the southeastern portion of the property, is a former water reservoir that has been partially filled with its collapsed roof, wood, and miscellaneous trash (Falkenhagen, 2001). The dimensions of the reservoir appeared to be approximately 200 feet long, 80 feet wide, and 20 to 30 feet deep. Due to access constraints, the reservoir was not observed closely and the exact nature of its contents was not identified (Dames & Moore, 1995).

ADDITIONAL OBSERVATIONS

An "old" swimming pool probably associated with the former town is located on the property. Two metal buildings were located west of the swimming pool. These buildings stored numerous drums, some of which were open and appeared to be used to store drilling core samples (Dames & Moore, 1995).

Concrete blocks were observed near many of the well sites. These blocks may have been part of former pumping or compressor equipment. PG&E presently owns all the transformers on the property. However, transformers that were owned by SWEPI in the past may have contained PCBs (Dames & Moore, 1995).

VICINITY

Land use on properties adjacent to the subject property consists primarily of petroleum production, processing, and transfer facilities, agriculture, and livestock grazing. There were no obvious visual indications that activities on adjacent properties have impacted the subject property.

3.5 Historical Topographic Map Review

Harding ESE reviewed historical topographic maps from the UCSB Map and Imagery Library. This section describes those maps.

3.7 Review of Previous Environmental Reports

3.7.1 Dames & Moore Phase I ESA

Harding ESE received a report entitled *Phase I Environmental Site Assessment, Orcutt Hill Area* prepared by Dames & Moore, for Unocal, dated January 1995. The report included additional parcels not included in the current Site Assessment. The assessment was conducted as part of Unocal's disclosure review of the property. Dames & Moore reviewed documents and maps provided by Unocal, reviewed historical aerial photographs, and conducted a site reconnaissance to assess the environmental conditions of the property. Unocal personnel supplied property-specific information. Dames & Moore concluded in its report, based on information and observations obtained during the assessment, that operations and conditions at the Site are generally typical of properties historically used for petroleum production and that the property was generally well maintained. Potential environmental concerns on or near the Site include the following (Dames & Moore, 1995):

- ASTs for storage of petroleum-related products and drums and bulk containers of chemicals.
- Hydrocarbon-stained soils, including former locations of production and processing facilities.
- Known leaks/spills involving crude oil, produced water, and/or drilling mud.
- Incidental leaks of gear, lube, and/or condensate oil.
- Pits adjacent to each well that were used for containment of wastes during drilling operations.
- Pipeline leaks along pipeline joints, pressure relief valves, and areas of corrosion.
- Surface impoundments for the storage of oil and/or evaporation/percolation of produced water.
- Idle wells, which may provide a conduit for migration of contaminants to the subsurface.
- Soil containing crude oil that has been used for road or berm construction.
- Road base mixing and stockpile areas.
- Produced water injection facilities.
- Oil sprayed on embankments for erosion control.
- Soil beneath and/or around existing and/or former electrical equipment that may have contained PCBs.
- Former concrete-lined scrubber waste sumps.
- Laboratory wastes collected in an AST and then transferred to the water injection system, where it is combined with produced water/oil and injected into the formation. Lab waste may also flow into a septic tank system.
- Unlined cellars containing oil and or oil water on the Careaga Fee.
- Hydrocarbon staining observed near some wells and tanks on the Careaga Fee.
- A concrete-lined sump at the Careaga Fee Tank Battery.
- A large concrete-lined structure (possible water reservoir) that is partially filled with wood and miscellaneous trash.
- Discarded sulfide chips from oxide beds.

- Disposal areas and salvage yards associated with camp housing and oil-field operations.
- Possible near-surface contamination associated with the Newlove compressor plant area including the compressor plant, laboratory, maintenance shop, weld shop, storage building, and former septic tanks.
- An oil seep at Newlove Well 61.
- A former UST that stored diesel near the laboratory at the Careaga Compressor Plant.
- A former fuel dispenser pump and UST near the former post office location on the Careaga Fee.

3.7.2 ENSR Limited Phase II Investigation

Harding ESE received a portion of a report entitled *Due Diligence Investigation as part of the Torch Energy Advisors Acquisition of Unocal's Upstream Assets in Central and Coastal California* by ENSR Consulting and Engineering, dated December 1995. The report contained results of limited Phase II sampling that included the Newlove, Pinal, Careaga, and Hobbs Fees. ENSR was unable to locate former drilling sumps for sampling. Based on the results of its investigation, ENSR concluded that there was potential environmental liability at the following locations:

- Concrete-lined production sump at the Pinal Injection Plant
- Careaga Tank Battery
- Lube-oil tank at the Newlove Compressor Plant
- Newlove Compressor
- Careaga Compressor

A selected table and figures from the report are included as Appendix A. Analytical results are shown in the table. Figures show the sampling locations at the Orcutt Hill Compressor Plant, Newlove Tank Battery, Newlove Flats Injection Plant, and Pinal Tank Battery and Injection Plant.

At the Orcutt Hill Compressor Plant, the following areas were sampled and constituents of concern were identified at levels below laboratory detection limits or anticipated regulatory action levels by ENSR:

- Gas compressor house
- Water coolers
- Fuel gas scrubber
- Interstage scrubbers
- Laboratory area
- Maintenance shop area
- Former UST location
- Storage shed (former gas meter shop)

Areas of concern identified by ENSR at the Orcutt Hill Compressor Plant included the:

- Gas metering location
- Dehydration vapor recovery vessel

- Condensate and absorption-oil storage area
- Lube-oil tank

At the gas metering location, mercury was detected at a concentration of 6.4 mg/kg at a depth of 1 foot bgs. Also, total extractable petroleum hydrocarbons in the diesel range (TEPH-D) and in the motor oil range (TEPH-M) were detected at concentrations of 2,800 and 14,000 mg/kg, respectively. At a depth of 3 feet, total recoverable petroleum hydrocarbons (TRPH) were detected at a concentration of 6,700 mg/kg.

At the dehydration vapor recovery vessel, total volatile petroleum hydrocarbons (TVPH) were detected at concentrations ranging from 25 to 420 parts per million per volume (ppmv) in soil vapor samples collected at 5, 10, 15, and 19 feet bgs. The highest concentration was detected at 19 feet with a benzene concentration of 49.7 micrograms per liter (µg/l).

A sample was collected of the soil beneath the dispenser nozzle stand at the southern end of the condensate and absorption-oil storage area. At a depth of 1 foot bgs, TRPH and TEPH-D were detected at concentrations of 8,750 and 783 mg/kg, respectively. Samples could not be collected any deeper because of sampler refusal.

The lube-oil tank location consisted of one AST, a sump, and a lube-oil dispenser area. Apparently, the sump contained used oil. Soil vapor samples were collected to a depth of 25 feet, where the highest concentration of TVPH was found at 20,200 ppmv. At a depth of 10 feet, benzene was detected in a soil sample at 0.054 mg/kg.

A community dumpsite was active from approximately 1900 to the 1940s that was partially located on the Hobbs Fee (Parcels 4 and 5). The old dumpsite is located in a ravine where waste materials include construction debris, a wooden cable spool, a wooden pump wheel, and assorted domestic trash (bottles and cans). Apparently, the area was overgrown with vegetation and the entire ravine could not be investigated. A soil sample was analyzed for chromium, lead, and mercury. ENSR reported that the results were below anticipated regulatory cleanup levels.

At the Pinal Tank Battery and Injection Plant, based on field sampling results, ENSR concluded that constituents of concern were at levels below laboratory detection limits or anticipated regulatory action levels. In a soil sample collected adjacent to the Pinal Injection Plant sump (Parcel 3), TRPH was detected at 12,400 mg/kg at a depth of 5 feet bgs. At a depth of 15 feet, TRPH was below the laboratory detection limit.

The sump is concrete-lined and adjacent to the Pinal Tank Battery and Injection Plant. The sump receives oil and water from various sources including drips from equipment, produced water, rainwater, and incidental spills.

In the northern portion of the Pinal Fee (Parcel 1), fire-training exercises were historically conducted in a cleared area west of the entrance road. Benzene was detected at 1.4 µg/l in a soil vapor sample collected at a depth of 5 feet bgs. Soil appeared to be heavily stained to a depth of 25 feet bgs. Apparently, most of the staining was due to heavier end hydrocarbons, and no samples were submitted for analysis.

At the Careaga Fee, the following areas were sampled and constituents of concern were identified at levels below laboratory detection limits or anticipated regulatory action levels by ENSR:

- Former AST location
- Geo Petroleum Tank Battery
- Well test facility AST
- PCB transformer area
- Former UST location

Areas of concern that were identified by ENSR on the Careaga Fee included the following:

- Tank battery and oil loading area
- Gas plant/gas compressor area.

Facilities present on the Careaga Fee included a gas plant, a former compressor plant, tank settings, oil wells, and oil pipelines.

At the tank battery located on the western portion of the property, adjacent to the gas plant, there were three ASTs and a circular gravel base inside the bermed area, apparently the location of a former AST. Free oil was found in the gravel base at a depth of approximately 4 inches.

At an oil loading area at the western edge of the tank battery, the analytical results of soil vapor samples were as shown below.

DEPTH (bgs)	METHANE (ppmv)	TVPH (ppmv)	BENZENE (µg/l)	TOLUENE (µg/l)
5	>62,340	2,190	338.2	6.8
10	150,000	4,500	390.6	36.4
15	41,300	1,370	305.5	22.6

Stained soil was observed adjacent to the concrete pad apparently associated with a gas compressor at the plant. The analytical results of soil vapor samples are shown below.

DEPTH (bgs)	METHANE (ppmv)	TVPH (ppmv)	BENZENE (µg/l)	TOLUENE µg/l)
5	790	9,490	376	36
10	2,280	3,780	316	63

3.8 Summary of Historical Information

Based on Harding ESE's historical research, the Site has been developed for oil production since at least 1901. Adjacent properties to the north, south and east were developed for oil production and cattle grazing. Numerous ASTs and at least one UST have been present on the Site. An investigation was conducted indicating that petroleum hydrocarbons associated with oil-field activity were present on the Site. The Orcutt Hill Compressor Plant, the Careaga Tank Battery and Oil Loading Area, and the Careaga Gas Plant were identified as areas of concern.

California Coast Lease, and the west by the Hartnell-Squires Lease. No active oil production facilities were observed on the parcel.

4.1.15 Parcel 15

Parcel 15 is the Folsom Fee (Figure 17). It is approximately 127.5 acres in size. It is bounded on the north by Parcel 3 (Pinal Fee), on the south and east by Parcel 16 (Newlove Fee), and on the west by the California Coast Lease.

Seventeen oil wells are on the parcel: seven producing, six water injector, three shut in, and one abandoned. One test header and three condensate traps (two pigs and one wide spot) are present on the parcel.

4.1.16 Parcel 16

Parcel 16 comprises the Newlove and Careaga Fees and is approximately 4,046.8 acres in size (Figure 18).

4.1.16.1 NEWLOVE FEE

The Newlove Fee is bordered on the north by the California Coast Lease, Parcels 15 (Folsom Fee) and 9 (Dome Fee) and TEPI, on the east by Highway 101 and open space; and on the south by the Careaga Fee. There are approximately 112 oil wells on the Newlove Fee: 29 producing, 33 shut in, 30 abandoned, 19 water injectors, and 1 disposal.

ORCUTT HILL COMPRESSOR PLANT AND OFFICE

The Orcutt Hill Compressor Plant and office is shown on Figure 18 (Photograph 9).

A mercury spill was recently cleaned up in the northeast corner of the shop area. The mercury-contaminated waste was stored in a metal container pending a disposal profile. Documentation of the cleanup and mercury disposal are in the Nuevo files (Folks, 2001).

One of the compressor buildings is out of service and partially dismantled. It appears that three compressors have been removed. Staining was observed on the concrete mounts. In the active compressor building, some staining was observed below the building in a containment area. The paneling in this building is thought to contain asbestos.

Condensate is removed from vessels an average of twice a week. No sulfide chips are used at the compressor plant (Miller, 2001).

Staining was observed on the motor mounts adjacent to the jacket water coolers. Corrosion inhibitor (Nalco 1355) is stored at this location.

The lab is a wood-framed building with metal siding and a concrete floor (Photograph 10). Chemicals (lactol solvent) are stored on a metal-grated stand within a plastic container.

The storage shed on the south side is a wooden-framed building with metal siding and a wood floor. It contained tires, hoses, sorbent, tools, and excelsior.

A 20,000-bbl fresh-water AST is located east of the office (Photograph 11). Other ASTs at this facility include two propane tanks, three #2 diesel tanks, a 1,000-bbl injection holding tank, a 330-bbl lube-oil tank, and a lab drain tank (Figure 19). Diesel fuel is currently stored in the former absorption-oil tank. The condensate tank was moved to the Newlove Tank Battery.

ROAD OIL TANKS

The road oil tanks (Figure 20; Photograph 12) were contained by an earthen berm with an asphaltic coating. The road oil tanks store wastewater and oil from compressor plant drainage. No road mix from spill materials has been used on Orcutt Hill for approximately 4 years (Miller, 2001).

NEWLOVE FEE 67 INJECTION PLANT

The Newlove Fee 67 Injection Plant is located west of the Orcutt Hill Compressor Plant and consists of five lube-oil ASTs, three internal combustion engines, a pump, pole-mounted transformers, a sump, and a 55-gallon drum of gear oil. Staining was observed on the concrete pad and soil below the engines and in the soil below the pump (Figure 21; Photograph 15). Some ponded water with scum was observed east of the three ASTs.

NEWLOVE TANK BATTERY

The Newlove Tank Battery consists of four tanks, a vapor recovery compressor, chemical storage, a family trap, a Wemco Unit (out of service), a cut lab, a bottom pump, a condensate storage tank, a kerosene diluent (KD) pump, a LACT unit, a sump, and a compressor (in shed) (Figure 22; Photograph 13).

The condensate tank is supported on a concrete rack. The bottom pump next to the cut lab pumps from the tank bottoms and recirculates the oil back into the system. Some staining was observed at the bottom pump and LACT unit.

NEWLOVE FLATS INJECTION PLANT

The Newlove Flats Injection Plant consists of ten injection pumps/engines (plant injection), a 10,000-bbl storage tank, a 550-gallon lube-oil tank, a pump, a sump, a fuel scrubber vessel, and a compressor (Figure 23: Photograph 14).

Staining was observed on the plant injection concrete pad and around the lube-oil tank. In the drainage west of the facility, there was reinforced concrete, piping, and metal siding. West of the drainage there was an office associated with the former caustic plant and an area of concrete rubble, scrap, and parts storage.

EAST NEWLOVE 42 TANK BATTERY

The East Newlove 42 Tank Battery consists of two tanks with two pump and sump assemblies (Figure 24; Photograph 17). Staining was observed west of the upper area pump. These tanks are out of service.

OIL SEEP

An oil seep is currently active at Newlove 61. A collection cellar is periodically pumped out (Miller, 2001).

DRAINAGES

The Orcutt Hill Area has many drainages and washouts (The drainage at the Newlove Flats Injection Plant has 6 canyons feeding into it, and the riprap in the drainage is needed to prevent extensive erosion (Miller, 2001).

NEWLOVE 77 MIXING PIT

Tank bottom, spill, and cellar cleanout material are stored adjacent to Newlove Well 77. There is a mixing pit and two rolloff bins for vacuum trucks (Miller, 2001).

OTHER SITE FEATURES

Stone walls associated with former residences were observed north of the road and east of the Orcutt Hill Compressor Plant. Newlove Fee also has a former schoolhouse, two picnic grounds, a radio station tower and buildings, wooden box beehives, numerous telecommunication antennae and buildings on Mt. Solomon (Photograph 18), and a U.S. Air Force weather station (Photograph 19).

The picnic grounds consist of a cooking area, tables, a baseball field, restrooms and a horseshoe pit. The buildings were constructed of corrugated metal. A second picnic area was observed north of Newlove 104 that had a barbecue and a bathroom.

The schoolhouse is a restored wooden building with a deck and metal roof. There is a barbecue pit and old drilling equipment and rod rack on the west side, and a propane tank on the east side of the building.

Numerous radio and telecommunication antennae and buildings are located on top of Mt. Solomon (Photograph 18). Small ASTs there contain fuel to power equipment. Three satellite dishes are located northwest of Mt. Solomon.

The U.S. Air Force has a weather station east of Orcutt Hill (Photograph 19). There is a large white sphere atop a tower, and three buildings on concrete pads. The ground around the buildings is gravel lined and the station has a barbed-wire fence.

4.1.16.2 CAREAGA FEE

GTI and Phoenix operate the Careaga Fee. Of the producing idle, water injection, and shut-in wells, 61 are operated by Phoenix and 20 by GTI on the Careaga Fee (Falkenhagen, 2001). There are approximately 34 plugged and abandoned wells (DOGGR, 2000).

CAREAGA GAS PLANT

The Careaga Gas Plant contains a large, horizontal AST (Photograph 20) for natural gas consisting primarily of pentane and hexane, a glycol boiler, a pump unit, transformer and equipment storage, various vessels, a flare, and chemical storage areas (Figure 25).

Staining was observed in the pump and glycol boiler areas. Transformers were observed to be stored on wooden pallets.

CAREAGA TANK BATTERY

This tank battery consists of three tanks with capacities ranging from 2,000 to 3,000 bbl (Figure 26; Photograph 21). The tanks are located within an earthen-bermed area with a concrete base inside the berm. A circular gravel base inside the bermed area appears to indicate the former location of a fourth tank. Inside the berm are drains that direct the flow of spills and surface runoff to a sump at the southwestern end. The sump was partially full of an oil and water mixture.

A LACT unit, an electrical panel, pumps, and pole-mounted transformers were observed immediately west of the tank battery. The pumps were mounted on concrete pads and staining was observed on the soil. Three

transformers were mounted on each of the two poles. Hydraulic oil was stored in a tote bin with secondary containment between the poles.

Old oil-field equipment, scrap metal and pipes, and miscellaneous trash and equipment were stored in an area west of the tank battery.

CAREAGA TANK BATTERY 37A

Careaga Tank Battery 37A is located in the southeastern portion of the fee (Figure 18). Dames & Moore (1995) identified the tank battery as being operated by Geo Petroleum but is currently operated by GTI. The four tanks were labeled as a wash tank, a stock tank, and two wastewater tanks (Photograph 22). Two separators, pumps, a test header, and a compressor are located at the tank battery. Staining was observed around the western pump (Figure 27). The battery has earthen berms with asphaltic coating. The tank pads are on gravel pads on sand. The pump is on a concrete pad.

CAREAGA TANK BATTERY 36X

Careaga Tank Battery 36X is located south of the office (Figure 18). This tank battery was identified as having six tanks by Dames & Moore (1995) and operated by Geo Petroleum in 1994. Two tanks were observed at this location (Photograph 23). One tank appeared rusty with peeling paint and was set on a gravel pad. Spillage was observed below the sample port. The smaller (360-bbl) of the tanks did not appear to be set on a pad. These tanks were transported to the Careaga Fee from another property and are not in service. They are stored at this location pending reuse on the property. Well 36X was recently renamed Well 16 (Falkenhagen, 2001).

FORMER COMPRESSOR PLANT

The former compressor plant is located in the southeastern portion of the property (Figure 18). The plant was operated by SWEPI during the 1940s and 1950s and had ceased to be used by about 1972 (Falkenhagen, 2001). Currently, the plant appears to have been partially dismantled. Remains of the plant include reinforced concrete walls, concrete flooring and mounts, metal equipment pieces, broken glass, a meter, drums, wooden planks, and a leaking transformer (Photograph 24). Stained soil was observed. On the hill to the south were metal debris and a platform that apparently once supported a transformer. An abandoned reservoir was observed south of Well 46.

BUILDINGS AND OTHER FEATURES

The office appeared to be modular building constructed of corrugated metal. A parts storeroom is attached. A warehouse/machine shop north of the office had burned down. There are two wooden and corrugated aluminum buildings with dirt floors south of Careaga 3. In the northernmost building, there are glass jars,

apparently filled with soil, on the ground. The other building contained unlabeled drums and PVC piping. The glass jars reportedly contain core samples from the SWEPI wells (Pine Canyon), and the drums were used to transport these jars (Falkenhagen, 2001). Another old wooden building was observed southwest of Careaga 6. The building was dilapidated and surrounded by various household items (i.e., water heaters, washtubs), auto bodies, metal, and wooden boards. The swimming pool was filled with water. The old water reservoir once had a roof, which has since collapsed (Falkenhagen, 2001).

OTHER ASTS AND OIL PRODUCTION FEATURES

There is a test header (separator, pipe header) north of Well 44 (northeast of the office). A 325-bbl fresh-water tank is located north of the office adjacent to Well B2. Two old, aluminum water tanks were adjacent to Careaga 146D. A test header was observed to the north of these tanks. A small, corroded AST was observed at the road junction north of Careaga 75. A large green vessel was observed north of the creek. It is reportedly used as a gas trap (Falkenhagen, 2001). A jack line was operating between Wells 6 and 11. Oil was observed on the base of the motor.

4.1.17 Parcel 17

Parcel 17 (Figure 28) is approximately 436.4 acres in size. It is bounded on the north by ranch-style residences, on the east and south by open space, and on the west by Highway 101. The site is accessed via an unmarked exit from the highway. A corral and outhouse (Photograph 26) and grazing cattle were observed on the parcel; otherwise, the parcel appeared undeveloped. The drainage appeared to be dry at the time of the reconnaissance in July.

4.2 Asbestos-Containing Materials

Asbestos sampling of the glycol reboiler was conducted at the Orcutt Hill Compressor Plant in April 2000. The stack insulation was determined to be nonasbestos, and the gaskets were composed of nonfriable asbestos (Nuevo, 2001). Asbestos-containing material is thought to be located in the compressor building siding.

4.3 Onsite Regulated Substance Identification/Inventory

A summary table of hazardous materials stored on the Site and acutely (extremely) hazardous materials registration form is included as Appendix C.

- Soils containing crude oil used for road/berm construction
- Leaks/spills/pits involving crude oil/produced water/drilling mud

Parcel 14

- Soils adjacent to oil wells
- Former sump locations
- Pipelines
- Condensate traps
- Former building locations
- Oil seep areas
- Soils containing crude oil used for road/berm construction
- Leaks/spills/pits involving crude oil/produced water/drilling mud

Parcel 15

- Soils adjacent to oil wells
- Former sump locations
- Pipelines
- Test headers
- Condensate traps
- Former ASTs and building locations
- Oil seep/stained areas
- Soil beneath transformer sites
- Soils containing crude oil used for road/berm construction
- Leaks/spills/pits involving crude oil/produced water/drilling mud

Parcel 16

Newlove Fee

- Orcutt Hill Compressor Plant
- Gas metering location
- Dehydration vapor recovery vessel
- Scrubbers
- Maintenance shops
- Laboratory area
- Road oil tanks
- Newlove 67 Injection Plant
- Newlove Tank Battery

- Newlove Flats Injection Plant
- East Newlove 42 Tank Battery
- Chemical and equipment storage and usage
- Condensate traps
- Test headers
- Soil adjacent to oil wells
- Former sump locations
- Oil mixing pit
- Pipelines
- Dumpsites
- Former compressor plant
- Current and former AST locations
- Former caustic plant
- Asbestos-containing materials
- Transformer sites
- Oil seep/stained areas (Well 61)
- Discarded sulfide chips
- Septic tank system
- Soils containing crude oil used for road/berm construction
- Leaks/spills/pits involving crude oil/produced water/drilling mud

Careaga Fee

- Caraega Gas Plant
- Careaga Tank Battery
- Oil loading area
- Tank Battery 37A
- Chemical and equipment storage and usage areas
- Condensate traps
- Test headers
- Soil adjacent to oil wells
- Current and former sump locations
- Pipelines
- Dumpsite
- Former compressor plant
- Current and former ASTs
- Possible former UST
- Jack line
- Current and former building locations
- Equipment storage yard
- Asbestos-containing materials
- Transformer sites

- Oil seep/stained areas
- Soils containing crude oil used for road/berm construction
- Leaks/spills/pits involving crude oil/produced water/drilling mud
- Former water reservoir

Parcel 17

- No obvious potential environmental concern

Phase I Environmental Assessment Report

Orcutt Hills Oilfield
Located Near
Orcutt, California

September 6, 2004 **Project: 04-262**

Prepared for: **BreitBurn Energy Company, LLC**
515 South Flower Street
Suite 4800
Los Angeles, California 90071

Prepared by:

Waterstone Environmental, Inc.
4409 Daisy Court
Moorpark, California 93021
(805) 530-0078; Fax (805) 530-0079

Proprietary Notice:

The report and its contents are PRIVILEGED AND CONFIDENTIAL INFORMATION. This document should not be duplicated or copied under any circumstances without the express permission of Waterstone Environmental, Inc. The purpose of the report is to allow the client listed above to evaluate the potential environmental liabilities at the Subject Property. Any unauthorized reuse of Waterstone Environmental Inc. reports or data will be at the unauthorized user's sole risk and liability.

Executive Summary

Waterstone has been retained by BreitBurn Energy Company, LLC to prepare a Phase I Environmental Site Assessment ("Phase I") and a limited environmental review of the Orcutt Hills Oilfield located south of the City of Orcutt, California ("Subject Property"). The sole purpose of this environmental assessment is to identify Recognized Environmental Conditions ("REC") for the Subject Property.

The Orcutt Hill Oilfield is located in the Santa Maria Basin in the northwestern portion of Santa Barbara County, approximately 10 miles south of Santa Maria, California. The Orcutt Hill Oilfield consists of over 10,000 acres and includes the following fees/leases:

- Pinal Fee
- Hobbs Fee
- Dome Fee
- Kaiser Fee
- Elasser Fee
- Folsom Fee
- Newlove Fee
- Careaga Fee
- Fox Lease
- Hartnell-Squires Lease
- Harris-Graciosa Lease
- Cal Coast Lease

The Subject Property consists of eight fee properties and four lease properties that have historically been in oilfield operations since the early 1900s. The original development was performed by small companies and Union Oil Company with Union Oil ultimately purchasing the other properties and was the predominant operator until the mid-1900s when they sold the properties to others.

Recognized Environmental Conditions (RECs) **were** identified for the Subject Property. They include for each of the properties:

- ASTs and former AST locations
- Condensate traps, test headers, and chemical and equipment storage/usage areas
- Injection plants
- Oil stained soil adjacent to oil wells
- Previously abandoned wells not to current standards
- Former sump and drilling mud pit locations
- Potential oil seeps
- Abandoned and active pipelines
- Leaks/spills/releases involving crude oil/produced water
- Soils containing crude oil used for road/berm/erosion construction

- PCBs in soil beneath transformer sites
- Former compressor plants
- Mercury in soil beneath the meter stations
- Historic dump sites

Additionally, the Title V permit for the Orcutt Hills Oilfield has a limitation on the air emissions from the operations. If any significant changes to the operations are considered, it may require the securing of emission reduction credits or the creation of credits by installing pollution controls with actual verifiable emission reductions.

Recognized environmental conditions (RECs) **were not** identified in connection with off-site properties.

WATERSTONE ENVIRONMENTAL, INC.

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October 5, 2007

Randy Wheeler
Principal
Pacific Terra Holdings, LLC
3010 Old Ranch Parkway, Suite 450
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Jackson Washburn
President
BreitBurn Land Co.
515 South Flower St., Suite 4800
Los Angeles, CA

RE: Summary of Site Characterization Activities for BreitBurn Energy's Newlove and Careaga Leases at the Orcutt Oil Field, Orcutt, CA

Dear Sirs:

At your request, Waterstone Environmental, Inc. (Waterstone) has prepared this summary report of site characterization activities Waterstone performed at two of BreitBurn Energy's leases located in the Orcutt Oilfield. Waterstone performed soil sampling in and adjacent to over 100 oilfield features located on the Newlove and Careaga Leases (Subject Property) to evaluate environmental conditions and determine whether remedial action is required.

Introduction

The Orcutt Hill Oilfield is located in the Santa Maria Basin in the northwestern portion of Santa Barbara County, approximately 10 miles south of Santa Maria, California. The Orcutt Hill Oilfield consists of over 10,000 acres and includes the following fees/leases:

- Pinal Fee
- Hobbs Fee
- Dome Fee
- Kaiser Fee
- Elasser Fee
- Folsom Fee
- Newlove Fee
- Careaga Fee
- Fox Lease
- Hartnell-Squires Lease
- Harris-Graciosa Lease
- Cal Coast Lease

This report includes an evaluation of the Newlove and Careaga leases only.

All of the properties are located west of Highway 101 as shown on Figure 1. The main entrance to the Orcutt Hill area oilfield is on Pinal Grade Road, accessed from the north along Rice Ranch Road. The Newlove Fee is located in the central portion while the Careaga Fee is located in the southwestern portion of the Orcutt Hill Oilfield.

At the time of Waterstone's sampling activity in 2006, the Subject Property was used for oil production and cattle grazing. The surrounding area consists mostly of ungraded vacant land, oilfields, vineyards and ranch-style residences. The area is very hilly with steep slopes and densely vegetated canyons. There has been no historical use or storage of chemical compounds in these areas and they were not sampled during Waterstone's environmental investigation.

Improvements at the Subject Property consist of oil production facilities including associated wells, pipelines, buildings, storage areas, test sites, aboveground storage tanks, compressor plant, water injection facilities, and areas of historical use such as pits and sumps.

The following previous reports were used by Waterstone to determine appropriate sampling locations for this study:

- October 22, 2001, Harding ESE; *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.*

- September 6, 2004, Waterstone Environmental, Inc.; *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.*

Field Work

Waterstone's evaluation was based on the map shown in Figure 2 that was generated by Harding ESE in its report dated October 22, 2001, *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.* This map shows the features listed on Table 1 that became the basis for choosing sampling locations. Waterstone and its subcontracted surveyor (Land Development Consultants of Anaheim, CA) performed 3 site visits to mark locations and survey features from the Harding ESE map that have no current means of identification onsite today.

Initially, the Newlove lease was evaluated. Two field episodes were performed to evaluate soil near wells, tank farms, compressors, and other oil field features that are listed on Table 1. The first field episode was to sample initial locations in worst-case scenario areas in June of 2006. After receipt of that data, a second sampling episode was performed to provide additional stepout locations based on the first set of analytical results. The Careaga lease was sampled in December 2006. The features sampled are shown on Table 1. Sampling locations were limited to topographically accessible areas and worst case scenario areas where chemical compounds were know or suspected to have been used or stored in the past.

Samples were collected using a hand auger or GeoProbe direct-push soil sampling rig to collect undisturbed samples according to standard soil sampling protocols included as Attachment A.

Over 100 locations were sampled on the Newlove and Careaga leases and over 400 samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range)
- Volatile organic compounds (VOCs) by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Title 22 Metals by EPA Method 6000/7000 series
- Polychlorinated biphenyls by EPA Method 8082 (one sample from each of the dump, pit, sump, building, and transformer areas)
- Pesticides by EPA Method 8082 (one sample from each of the dump, pit, sump building, and transformer areas)

Sample locations are shown on Figure 3. Inset Areas 1, 2, 3, and 4 show detailed maps where specific sampling locations can be discerned.

Results

Sampling results for all samples analyzed for PCBs and pesticides indicate that none of these compounds were detected in the 24 samples that were analyzed. Analytical results for TPH, VOCs, and SVOCs are shown on Table 1. Metals results are shown on Table 2.

TPH results higher than 3500 parts per million (ppm) are shaded in yellow on Table 2 for ease of review. Waterstone uses 3500 ppm as a threshold concentration for total TPH to conservatively evaluate what may be considered elevated if a risk assessment were performed. Only 14 of the 437 samples (3%) analyzed contained total TPH in excess of 3500 ppm and only 6 of these are over 10,000 ppm for total TPH.

TPH in excess of 3500 ppm was detected at the 10 following features:

- 3 of 37 oil wells sampled (all 3 on Careaga)
- 1 of 12 locations sampled at compressor, condensate, caustic, or injection plant locations (the 1 is on Careaga)
- 1 of 1 location at the fuel loading station at Careaga
- 2 of 22 locations sampled at pits, dumps, and sumps (both on Newlove)
- 2 of 23 locations sampled at current and former aboveground tanks
- 1 of 6 locations sampled at blow casings, pigs, or test headers.

VOC and SVOC concentrations were mostly not detected. Where these compounds were detected, they were commonly associated with elevated TPH. Metals concentrations were not detected at concentrations above background levels. Laboratory analysis data sheets have not been attached to this summary report but can be provided on request.

Conclusions

Based on Waterstone's investigation, the following conclusions can be made:

- TPH has been detected at 3% of the sampled features at concentrations that may require some future action.
- Future property use will dictate the need and scope of any further assessment or remedial activities.
- Sampling results were biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the site that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for chemical use and storage.

Please call me if you have any questions.

Sincerely,

Nancy Beresky, PG 7965
Principal Hydrogeologist
Waterstone Environmental, Inc.

Attachments: Tables 1, 2, 3
Figures 1, 2, 3 and Insets 1, 2, 3, 4
Attachment A

Table 1
Features Sampled on the Newlove and Careaga Leases
BreitBurn Energy - Orcutt Oil Field
Orcutt, CA

Sampled Features	Abbreviation for Sample ID	# of Features	# of Borings
Newlove Lease Sampling:			
Auto Dump	AD-	3	3
Blow Case	BC-	2	2
Buildings	B-	1	1
Caustic Plant AST	CPA-	2	2
Cement Pits	CP-	2	2
Condensate Plant	CON-	2	2
Discharge Point	DP-	2	2
Dumps	D-	4	3
Former Tanks	FT-	2	2
Gas Scrubber	GS-	2	2
Injection Plant	IP-	4	4
Injection Plant Valves	IPV-	2	2
Lube Oil Tank	LOT-	1	1
Oil Mixing Pit	OMP-	7	7
Pig	P-	2	2
Sumps	S-	4	4
Tank Battery	TB-	4	6
Test Header	TH-	2	2
Transformers	T-	5	5
Trash Pits	TP-	1	1
Wells	W#__-	15	15
Total		***69***	***70***
Careaga Lease (CL) Sampling:			
Brea	B-	1	2
Compressor Plant	CL-CPlant-	1	2
Drainage Way	DR1-	1	1
Drum Storage	CL-DS-	1	2
Dump	CL-D	1	1
FRM Energy Battery	CL-FEB-	1	2
Fuel Loading	FI-	1	1
Gas AST	CL-GAST-	1	1
Sump	CL-S-	1	1
Tank Farm	CL-TF-	3	9
Wells	CL-W#___-	22	13
Total		***34***	***35***

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

on Subject Property

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
AD - 1	7/20/2006	2	6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	5.3	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	5.9	ND	ND	ND	---	---	---	---
AD - 2		2	6	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	6	ND	ND	ND	---	---	---	---
AD - 3		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	5.3	ND	ND	ND	---	---	---	---
B - 1	7/21/2006	1	12	2.8	ND	ND	---	---	---	---
		3	22	ND	ND	8.4	All compounds Not Detected		All compounds Not Detected	
		5	16	4.8	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	28	ND	2.2	20	---	---	---	---
BC - 1	6/14/2006	1	430	ND	200	221	---	---	---	---
		3	4000	640	2080	1279	---	---	---	---
		5	4100	913	2090	1062	1,1,2,2-Tetrachloroethane 1,2,4-Trimethylbenzene Ethylbenzene Isopropylbenzene Naphthalene n-Butylbenzene n-Propylbenzene sec-Butylbenzene	95 43 16,000 1,900 320 100 10,000 660	---	---
BC - 2	6/15/2006	1	ND	ND	ND	ND	All compounds Not Detected		---	---
		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CON - 1	7/21/2006	3	9.1	ND	ND	ND	---	---	---	---
		5	12	ND	ND	1.9	---	---	---	---
		10	7.7	2.7	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CON - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	6	ND	ND	ND	---	---	---	---
		15	5.4	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 1	7/19/2006	2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 2	7/20/2006	2	19	ND	ND	ND	---	---	---	---
		5	13	ND	ND	ND	---	---	---	---
		10	23	4	ND	7.8	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
CPA - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	20	ND	ND	4.1	All compounds Not Detected		All compounds Not Detected	
		15	17	ND	ND	11.8	---	---	---	---
CPA - 2		3	180	ND	ND	141	---	---	---	---
		5	19	ND	ND	13.8	All compounds Not Detected		All compounds Not Detected	
		10	8.3	ND	ND	1.8	---	---	---	---
		15	22	ND	ND	17.5	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
D - 1	7/20/2006	2	7.2	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	5.2	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
D - 2		2	26	ND	2.1	19.7	---	---	---	---
		5	30	ND	4.4	21.2	---	---	---	---
		10	450	ND	170	268	---	---	---	---
		15	48	ND	24.7	48.2	All compounds Not Detected		All compounds Not Detected	
		20	2700	83	1470	1134	---	---	---	---
D - 4	7/18/2006	2	14	11	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	7.1	ND	ND	ND	---	---	---	---
		15	10	6.2	ND	ND	---	---	---	---
		19	5.2	ND	ND	ND	---	---	---	---
DP - 1	6/13/2006	1	5	ND	ND	ND	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
DP - 2		1	300	ND	152	145.8	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
FT - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	6.2	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
FT - 2		3	26	ND	2.5	17.4	---	---	---	---
		5	20	ND	ND	12.2	---	---	---	---
		10	24	ND	ND	8.9	All compounds Not Detected		All compounds Not Detected	
		15	21	ND	ND	8.6	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
GS - 1	6/14/2006	3	15	ND	ND	ND	---	---	---	---
		5	19	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
GS - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 1	6/14/2006	3	2300	23	860	1390	---	---	---	---
		5	54	ND	ND	34.8	---	---	---	---
		10	ND	ND	15.2	101	---	---	---	---
		15	130	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 2		3	460	6.1	119.6	331	---	---	---	---
		5	470	ND	108	355	All compounds Not Detected		All compounds Not Detected	
		10	33	ND	ND	7.7	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 3		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	23	ND	ND	5.4	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 4		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
IPV - 1	6/14/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	11	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IPV - 2		3	18	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	17	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	30	ND	ND	8.1	---	---	---	---

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Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
LOT - 1	7/18/2006	1	1400		470	853	---	---	---	---
		3	34000	2130	17200	14300	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene p-Isopropyltoluene Toluene	270 69 100 300 67 500 130 95 280 33 120	---	---
		5	6400	969	3780	1600	---	---	---	---
OMP - 1	6/12/2006	2	8900	731	4210	3930	1,3,5-Trimethylbenzene	2	All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 2		2	290	ND	113.8	176.1	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 3		2	5.5	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND				
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
OMP - 4		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
OMP - 5		2	ND	ND	ND	ND	---	---	---	---
		5	11	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 6		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	1,2-Dibromo-3-chloropropane	17	All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 7		2	11	ND	ND	ND	---	---	---	---
		5	9.5	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
P - 1	7/18/2006	1	100	15.6	42	43.3	---	---	---	---
		3	8.1	5.3	ND	ND	All compounds Not Detected		---	---
		5	5.5	ND	ND	ND	---	---	---	---
P - 2	7/21/2006	1	25	ND	ND	4.2	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		---	---
		5	47	ND	ND	29.4	---	---	---	---
S - 1	6/14/2006	5	23	ND	ND	12.7	---	---	---	---
		10	28	ND	9.6	ND	---	---	---	---
		15	40	ND	3.6	13.5	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 2		5	24	ND	ND	12.2	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
S - 3		5	310	ND	85.6	219	---	---	---	---
		10	370	6.8	93.2	260	All compounds Not Detected		All compounds Not Detected	
		15	38	ND	ND	6.1	---	---	---	---
		20	22	ND	ND	ND	---	---	---	---

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
S - 4	6/13/2006	5	ND	ND	ND	ND	---	---	---	---
		10	24	ND	ND	3.7	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 8	7/19/2006	5	160	ND	29.6	117	---	---	---	---
		10	49	ND	7.9	37	---	---	---	---
		15	28	ND	1.9	22	---	---	---	---
		20	16	ND	ND	6	All compounds Not Detected		All compounds Not Detected	
S - 9		5	170	ND	10	145	---	---	---	---
		10	34	ND	8.1	23.5	All compounds Not Detected		All compounds Not Detected	
		15	23	ND	2.2	13.9	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
T - 1	7/18/2006	surface	190	ND	60.9	117	---	---	---	---
		1	44	ND	ND	16.3	---	---	---	---
		3	60	ND	ND	19.3	---	---	---	---
T - 2		surface	49	ND	ND	37.3	---	---	---	---
		1	220	ND	27.5	185.5	---	---	---	---
		3	25	ND	ND	5.2	---	---	---	---
T - 3		surface	530	ND	187.7	331	---	---	---	---
		1	180	2.4	64	108.8	---	---	---	---
		3	330	3.9	95.6	226	---	---	---	---
T - 4		surface	14	ND	ND	3.1	---	---	---	---
		1	10	ND	ND	ND	---	---	---	---
		3	10	ND	ND	ND	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
T - 5		surface	330	ND	238	91	---	---	---	---
		1	420	ND	108	285	---	---	---	---
		3	20	ND	ND	ND	---	---	---	---
TB - 1	6/13/2006	3	46	ND	8.8	32.1	---	---	---	---
		5	17	ND	ND	10	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 2		3	120	ND	31.7	86	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	5.5	ND	ND	ND	---	---	---	---
		15	5.6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 3		3	8900	1270	4450	3230	---	---	---	---
		5	440	50.8	207	181	---	---	---	---
		10	8.7	ND	ND	ND	---	---	---	---
		15	16	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 4		3	36	ND	3.9	23.5	---	---	---	---
		5	17	ND	ND	9.1	---	---	---	---
		10	240	ND	76.4	160	All compounds Not Detected		All compounds Not Detected	
		15	6.8	ND	ND	ND	---	---	---	---
TB - 5	6/15/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
TB - 6		3	18	ND	1.8	9.4	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
TH - 1	7/18/2006	1	14	ND	ND	2.2	All compounds Not Detected		---	---
		3	6.4	ND	ND	ND	---	---	---	---
		5	8.7	2.4	ND	ND	---	---	---	---
TH - 2		1	47	ND	12.6	28.4	---	---	---	---
		3	8.7	ND	ND	ND	---	---	---	---
		5	9	ND	ND	ND	All compounds Not Detected		---	---

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
TP - 1	7/20/2006	2	1100	ND	375	756	---	---	---	---
		5	3500	ND	1040	2400	---	---	---	---
		10	330	ND	22.3	279	All compounds Not Detected		All compounds Not Detected	
		15	110	ND	19.5	80.9	---	---	---	---
		20	86	ND	9.4	66.8	---	---	---	---
W - 1 - 37	6/16/2006	5	5.5	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	6.5	ND	ND	ND	---	---	---	---
W - 2 - 100		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 3 - 40		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 4 - 108	6/15/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 5 - 70		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 6 - 86		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 7 - 27		5	1900	14	929	905	---	---	---	---
		10	1600	295	790	517	Naphthalene p-Isopropyltoluene	470 69	2-Methylnaphthalene	1,100
W - 8 - 82		5	17	11	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 9 - 109		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 10 - 48	6/16/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	26	ND	ND	17.8	---	---	---	---
W - 11 - 99		5	11	ND	ND	1.9	---	---	---	---
		8.5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 12 - 102	6/15/2006	5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 13 - 94		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 14 - 60	6/16/2006	5	5.5	ND	ND	ND	---	---	---	---
		10	7.7	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 15 - 61	7/18/2006	5	27	ND	ND	ND	---	---	---	---
		10	43	6.8	ND	6.1	All compounds Not Detected		All compounds Not Detected	

on Subject Property

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			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-37AG	12/5/2006	10	<5.0	<1.8	<1.8	<1.8	All	...not detected	All compounds...	...not detected
CL-37A-G	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	Phenol	460
CL-B1-1	11/29/2006	3	16	<1.8	<1.8	11.7	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-B1-2	11/29/2006	3	17	<1.8	<1.8	10.3	All compounds...	...not detected	All compounds...	...not detected
		5	300	<18	53	232	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-CPlant1-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
CL-CPlant-3	12/4/2006	3	210	<1.8	138.3	68	---	---	---	---
		5	140	<1.8	103.4	36.7	---	---	---	---
		10	99	<1.8	72.1	24.8	---	---	---	---
		15	12000	3130	8200	240	sec-Butylbenzene 1,1,2,2-Tetrachloroethane	50 74	All compounds...	...not detected
CL-D1-1	12/4/2006	3	110	<3.6	13.7	87.9	All compounds...	...not detected	---	---
		5	220	<3.6	47.8	165	---	---	---	---
		10	72	<3.6	13.7	52.2	---	---	---	---
		15	56	<3.6	15.9	37.1	---	---	---	
CL-DR1-1	12/1/2006	5	5.8	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	9.9	3.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-DS1-1	12/1/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	6.9	<1.8	<1.8	<1.8	---	---	---	---
		15	9.3	<1.8	<1.8	3.6	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-DS1-2	12/1/2006	3	<10.0	<3.6	<3.6	<3.6	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	40	<1.8	5.3	32.3	---	---	---	---
CL-F1-1	12/1/2006	1	14000	1340	8100	4120	---	---	---	---
		3	23	<3.6	<3.6	<3.6	1,1-Dichloropropene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene Toluene	2 34 10 38 25 13 40 15 15 6.1 24	All compounds...	...not detected
		5	1100	247	611	260	---	---	---	---
		10	6.4	2.2	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-1	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	5.8	<1.8	<1.8	3.9	---	---	---	---
		8	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-2	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	Chlorobenzene Benzene	12 2.5	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-GAST1-1	12/1/2006	3	6.6	2.1	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	520	<9.0	173	330	---	---	---	---
		10	12	<3.6	<3.6	<3.6	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-S1-1	12/1/2006	3	1100	13	506	585	---	---	---	---
		5	810	166	419	228	Naphthalene	29	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-1	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-2	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---

on Subject Property

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-TF1-3	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-4	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-1	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-3	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
on Subject Property										
CL-TF3-1	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF3-2	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Phenol	380
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-136G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	420
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-146DG	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-147G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	27	<1.8	14.7	3.8	---	---	---	---
CL-W-46G	12/6/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-47AG	12/6/2006	5	5.8	<1.8	<1.8	<1.8	---	---	---	---
		10	8.5	<1.8	<1.8	1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	4,200

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Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-W-47P	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-61P	12/5/2006	5	12000	2690	6200	2820	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Ethylbenzene Isopropylbenzene Naphthalene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	1,100 55 41 73 1,500 180 310 240	2-Methylnaphthalene Bis(2-ethylhexyl)phthalate	5,500 6,000
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-62P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	3,400
CL-W-63P	12/5/2006	10	7100	2354	3600	1107	---	---	---	---
		15	12000	3997	6130	2130	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Butylbenzene n-Propylbenzene o-Xylene p-Isopropyltoluene sec-Butylbenzene tert-Butylbenzene	270 200 2,900 5,900 370 14,000 1,400 1,800 140 690 5,100 290	Naphthalene	17,000
CL-W-74P	12/6/2006	5	5.2	<1.8	<1.8	3.3	All compounds...	...not detected	All compounds...	...not detected
		10	5.5	<1.8	<1.8	3.4	---	---	---	---

on Subject Property

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-W-78P	12/6/2006	5	1100	391	408	298	---	---	---	---
		10	240000	86000	116000	37000	1,2,4-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Butylbenzene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	37,000 12,000 29,000 19,000 23,000 19,000 6,000 19,000 8,200 12,000	2-Methylnaphthalene	24,000
		15	6600	1973	3440	1210	---	---	---	---
CL-W-91P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-92P	12/6/2006	5	<5.0	<1.8	<1.8	3.4	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	660
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-93P	12/7/2006	5	49	<3.6	<3.6	35.3	All compounds...	...not detected	All compounds...	...not detected
		10	19	<3.6	<3.6	8.2	---	---	---	---

--- = Not Analyzed ND=Not Detected
TPH - total petroleum hydrocarbons
ug/kg - micrograms per kilogram or parts per billion
mg/kg - milligrams per kilogram or parts per million

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
AD-1-2	07/20/2006	2	ND	24	ND	ND	23	2.6	8.3	5.3	0.041	ND	16	ND	21	35
AD-2-10	07/20/2006	10	2.9	21	ND	0.73	13	1.7	5	2.6	0.02	ND	8.8	ND	14	21
AD-3-10	07/20/2006	10	ND	29	ND	ND	10	ND	3.9	3.6	0.027	ND	2.7	ND	9.6	13
B-1-1	07/21/2006	1	9.4	65	0.58	ND	38	4.9	12	7.7	0.12	2.1	22	ND	43	39
CON-1-10	07/21/2006	10	4.3	37	ND	ND	29	3.6	8.5	4.2	0.029	ND	24	ND	20	31
CP-1-10	07/19/2006	10	2.6	28	ND	ND	8.7	2	4.4	2.3	ND	ND	7.9	ND	10	13
CP-2-15	07/20/2006	15	7	59	ND	ND	37	4.4	15	6.2	0.037	ND	19	ND	32	47
CPA-1-10	07/19/2006	10	5.3	70	ND	0.5	27	3.5	9.2	4.9	0.033	ND	18	ND	30	31
CPA-2-5	07/19/2006	5	4	52	ND	0.55	16	2.5	5.9	3.2	ND	ND	13	ND	19	19
D-1-20	07/20/2006	20	3.1	45	ND	ND	12	2.1	6.1	4.7	0.03	3.5	11	ND	13	31
D-2-15	07/20/2006	15	7	40	0.52	2.2	61	25	21	4.1	0.13	3.4	31	ND	35	150
D-4-5	07/18/2006	5	ND	28	ND	ND	5.8	ND	4.1	4.8	ND	ND	2.6	ND	8.7	9.3
DP-1-3	06/13/2006	3	2.7	34	ND	0.56	9.3	1.9	4.2	3.2	ND	ND	8.5	ND	11	16
DP-2-3	06/13/2006	3	3	53	ND	ND	5.6	1.6	2.8	3.8	ND	ND	5.8	ND	9.2	9.2
FT-1-5	07/19/2006	5	ND	4.4	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	2.6	11
FT-2-10	07/19/2006	10	3.5	48	ND	ND	13	3.1	6.2	3.6	ND	ND	10	ND	16	17
GS-1-10	06/14/2006	10	2.7	24	ND	ND	4.4	1.8	3.2	2.5	ND	ND	4.9	ND	6.8	14
GS-2-15	06/14/2006	15	2.3	18	ND	ND	3.8	1.1	2.7	ND	ND	ND	3.2	ND	5.6	21
IP-1-15	06/14/2006	15	ND	20	ND	0.74	3.8	1.3	3.6	2.3	ND	ND	4.6	ND	6	25

on Subject Property

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Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
IP-2-5	06/14/2006	5	ND	37	ND	ND	1.9	ND	3.2	3	0.033	ND	2.4	ND	4.7	7.8
IP-3-3	06/14/2006	3	2.5	22	ND	ND	4.7	ND	2.9	2.2	ND	ND	4.8	ND	6.3	38
IP-4-10	06/14/2006	10	2.8	25	ND	0.56	5.3	1.8	3.3	2.8	ND	ND	6.5	ND	7.4	42
IPV-1-5	06/14/2006	5	ND	15	ND	ND	1.4	2.9	ND	ND	ND	ND	4.6	ND	2.7	ND
IPV-2-3	06/14/2006	3	ND	22	ND	ND	3.1	1.5	2.7	ND	ND	ND	3.5	ND	4.9	8.4
LOT-1-3	07/18/2006	3	4.1	26	ND	ND	9.7	2.7	5.2	3.1	ND	ND	12	ND	18	15
OMP-1-2	06/12/2006	2	ND	430	ND	ND	12	1.8	31	11	0.14	ND	18	ND	21	94
OMP-2-2	06/12/2006	2	ND	8.9	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	2.1	ND
OMP-3-20	06/12/2006	20	ND	16	ND	ND	5.3	ND	2.1	2.3	0.02	ND	4.8	ND	5.7	8.1
OMP-4-5	06/12/2006	5	3.5	28	ND	ND	9.4	1.5	4.3	3.2	0.02	ND	7.1	ND	11	18
OMP-5-15	06/12/2006	15	4.9	20	ND	0.66	7.4	2	3.4	2.8	0.023	ND	6.7	ND	9.7	14
OMP-6-15	06/12/2006	15	2	39	ND	ND	13	1.5	7.5	4.9	0.042	3.1	4.7	ND	10	15
OMP-7-15	06/12/2006	15	2.7	25	ND	ND	7.8	1.6	2.8	2.9	0.02	ND	4.3	ND	12	8.5
S-1-15	06/14/2006	15	2.3	33	ND	0.98	5.4	1.9	6.2	3	ND	ND	9	ND	9.6	15
S-2-5	06/14/2006	5	3.7	33	ND	0.53	5.9	2.8	4.9	2.9	ND	ND	7.7	ND	9.7	13
S-3-10	06/14/2006	10	3.8	37	ND	0.74	5.4	2.3	5.3	2.6	ND	ND	9.2	ND	10	11
S-4-15	06/13/2006	15	13	32	ND	ND	35	4.1	10	3.3	0.029	4.1	25	ND	25	58

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Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
S-8-20	07/19/2006	20	5.9	65	ND	0.61	32	4.2	13	6.3	0.029	ND	21	ND	35	44
S-9-10	07/19/2006	10	2.3	29	ND	ND	7.8	1	3.1	2	ND	ND	5.9	ND	12	14
TB-1-15	06/13/2006	15	6.2	25	ND	ND	25	2.7	9.7	3	0.036	ND	28	ND	16	43
TB-2-15	06/13/2006	15	2.8	45	ND	ND	27	2.2	9.7	4	ND	3.2	7.5	ND	20	29
TB-3-15	06/13/2006	15	2.1	26	ND	ND	22	1.9	9.2	2.5	ND	2.7	7.9	ND	12	30
TB-4-10	06/13/2006	10	14	89	ND	2.2	31	12	11	5.5	ND	3.9	40	ND	28	49
TB-5-5	06/15/2006	5	ND	12	ND	ND	4.4	ND	ND	ND	0.025	ND	2.5	ND	4.9	ND
TB-6-3	06/15/2006	3	ND	19	ND	ND	6.5	ND	2.4	2.5	ND	ND	2.3	ND	4.5	ND
TP-1-10	07/20/2006	10	3.6	43	ND	0.5	9.7	1.4	5.4	2.7	0.15	ND	12	ND	26	16
on Subject Property																
W-10-48-5	06/16/2006	5	ND	24	ND	ND	5.5	ND	3.6	2.5	ND	ND	3.9	ND	7	7.2
W-11-99-8.5	06/16/2006	8.5	ND	17	ND	ND	3.2	ND	ND	ND	ND	ND	4.4	ND	9.7	5.8
W-12-102-10	06/15/2006	10	2.3	33	ND	ND	4.5	1.3	3.8	2.7	ND	3.2	4.1	ND	7.2	8.7
W-1-37-5	06/16/2006	5	ND	55	ND	ND	4.5	ND	2.3	2.8	ND	ND	3.2	ND	7.3	ND
W-13-94-5	06/15/2006	5	ND	4.3	ND	ND	2.3	3.9	ND	ND	ND	ND	ND	ND	3.3	ND
W-14-60-10	06/16/2006	10	3.6	390	ND	0.71	16	ND	7	10	0.11	ND	4.3	ND	9	18
W-15-61-10	07/18/2006	10	7.9	54	ND	0.51	21	2	7.5	3.4	ND	2.6	15	ND	27	22
W-2-100-10	06/16/2006	10	ND	9.5	ND	ND	2.2	ND	ND	ND	ND	ND	2.7	ND	3.6	5.9
W-3-40-10	06/16/2006	10	ND	11	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	1.6	ND
W-4-108-5	06/15/2006	5	ND	28	ND	ND	5.5	1.1	2.8	2.4	ND	ND	4.5	ND	7.1	9.3
W-5-70-10	06/15/2006	10	ND	27	ND	ND	6.2	1.1	3.7	3	ND	ND	4.3	ND	6.8	11

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SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
W-6-86-5	06/15/2006	5	ND	17	ND	ND	2.7	ND	2	ND	ND	ND	ND	ND	3.4	5.7
W-7-27-10	06/15/2006	10	ND	20	ND	ND	3.6	ND	2.1	2.7	ND	ND	3.2	ND	4.8	5.2
W-8-82-10	06/15/2006	10	ND	20	ND	ND	2.6	ND	ND	2.1	ND	ND	ND	ND	2.1	ND
W-9-109-5	06/15/2006	5	ND	5.9	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	2.1	28
CL-37A-G	12/05/2006	5	ND	22	ND	ND	5.1	ND	2	2.2	ND	ND	4.3	ND	7.3	8.4
CL-B1-1	11/29/2006	3	ND	30	ND	ND	5.2	1.5	3.6	2.8	ND	ND	3.1	ND	6.7	12
CL-B1-2	11/29/2006	3	2	28	ND	ND	4.3	1.3	2.4	3	ND	ND	3	ND	6.3	6.4
CL-CPlant1-2	12/04/2006	20	5.5	34	ND	0.66	5.6	2.2	3.7	2.5	ND	2.4	4.9	ND	7.3	11
CL-CPlant-3	12/04/2006	15	9.9	23	ND	ND	5	2	2.7	2.2	ND	7.8	4.6	ND	8.4	10
CL-D1-1	12/04/2006	3	6.1	89	ND	0.57	10	1.4	9.4	14	0.037	5.7	6.5	ND	24	160
CL-DR1-1	12/01/2006	5	5.4	63	ND	ND	13	2.2	5	4.6	ND	2.8	7.3	ND	22	11
CL-F1-1	12/01/2006	3	3.4	92	ND	ND	8.5	1.8	5.3	5.6	ND	ND	6.4	ND	15	12
CL-FEB1-2	12/06/2006	3	ND	34	ND	ND	3.3	1.6	2.8	ND	ND	ND	3.2	ND	5.4	ND
CL-GAST1-1	12/01/2006	3	6.4	45	ND	ND	10	1.1	3.7	3.8	ND	3.5	4.5	ND	33	9.8
CL-S1-1	12/01/2006	5	2	20	ND	ND	3.1	ND	ND	2.2	ND	ND	ND	ND	6.8	ND
CL-TF1-1	11/29/2006	3	ND	13	ND	ND	2.2	ND	ND	2	ND	ND	ND	ND	3.3	ND
CL-TF1-2	11/29/2006	20	ND	26	ND	ND	5.9	ND	2.2	3.2	ND	ND	2.6	ND	5.3	7.8
CL-TF1-2	11/29/2006	3	ND	28	ND	ND	6.3	1.4	2.7	3.2	ND	ND	3.5	ND	7.7	8.6
CL-TF1-3	11/29/2006	3	ND	14	ND	ND	2.8	ND	2	ND	ND	ND	ND	ND	3.7	5.3
CL-TF1-4	11/29/2006	3	ND	27	ND	ND	4.3	1.2	2.3	2.8	ND	ND	2.1	ND	5.9	5.9

on Subject Property

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
CL-TF2-2	12/04/2006	3	3.5	33	ND	ND	7	2.1	3.2	3.2	0.031	9.1	6.1	ND	9.2	15
CL-TF2-3	12/04/2006	3	2.4	19	ND	ND	3.7	1.1	ND	ND	ND	6.8	3.5	ND	4.9	8.1
CL-TF3-1	12/05/2006	3	ND	13	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	3.3	ND
CL-TF3-2	12/05/2006	3	ND	27	ND	ND	3	1.3	ND	ND	ND	2.9	2.1	ND	4.3	6
CL-W-136G	12/07/2006	5	ND	22	ND	ND	3	2.6	2.3	ND	ND	ND	3	ND	6.9	ND
CL-W-146DG	12/04/2006	5	ND	15	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	5.4	ND
CL-W-147G	12/07/2006	5	ND	16	ND	ND	5.3	1.1	ND	ND	ND	3.3	3.1	ND	7.7	5.7
CL-W-46G	12/06/2006	5	7.9	32	ND	3.2	11	5.3	2.2	2.6	ND	17	8.9	2.6	40	5.6
CL-W-47AG	12/06/2006	10	ND	12	ND	ND	4	ND	ND	2.2	0.035	ND	2.9	ND	6.3	5
CL-W-47P	12/04/2006	5	ND	15	ND	ND	2.7	ND	2	ND	ND	2.9	2.9	ND	4.3	9.8
CL-W-61P	12/05/2006	5	ND	22	ND	ND	2.8	ND	ND	ND	ND	ND	3.8	ND	7.2	ND
CL-W-62P	12/05/2006	10	ND	9.9	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	4.8	ND
CL-W-63P	12/05/2006	15	ND	15	ND	ND	1.7	ND	ND	ND	ND	ND	3.1	ND	5.7	ND
CL-W-74P	12/06/2006	5	4.7	37	0.75	ND	14	2.9	10	5.4	0.022	5.3	17	ND	13	28
CL-W-78P	12/06/2006	10	ND	12	ND	ND	2	1.2	ND	ND	ND	ND	4	ND	6.4	ND
CL-W-91P	12/05/2006	5	2.3	35	ND	ND	8.6	1.3	3.7	4.3	ND	ND	5.9	ND	11	8.9
CL-W-92P	12/06/2006	5	2.2	32	ND	6.1	9.5	2.6	2.1	ND	ND	15	4.4	ND	35	16
CL-W-93P	12/07/2006	5	4.9	52	ND	15	79	2.9	18	ND	0.024	5.9	51	ND	37	61

on Subject Property

* No concentrations of Silver, Thallium, or Antimony were detected in any of the sampled locations; therefore, these compounds are not included on this table.

ug/kg - micrograms per kilogram or parts per billion

mg/kg - milligrams per kilogram or parts per million

ND-Not Detected

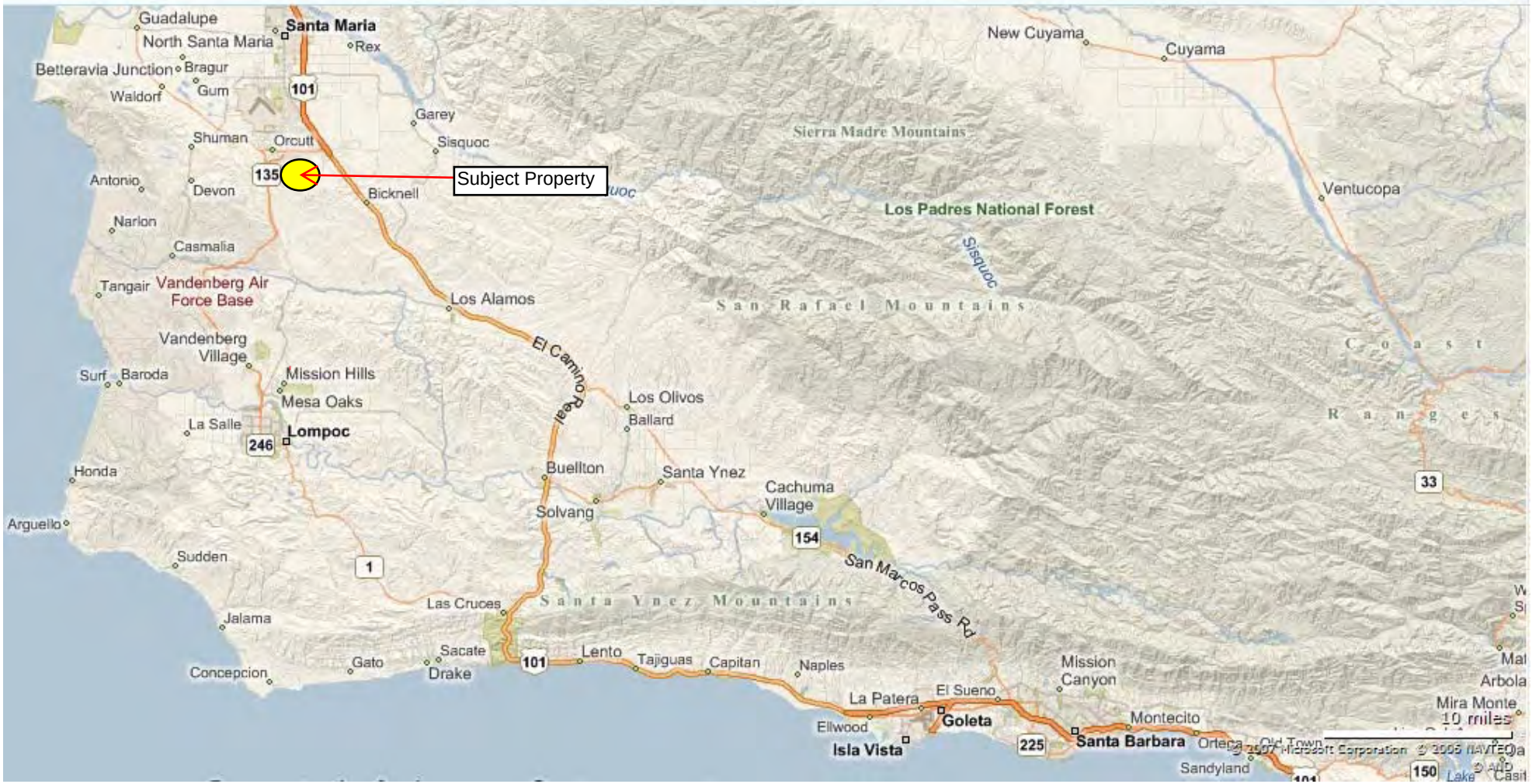
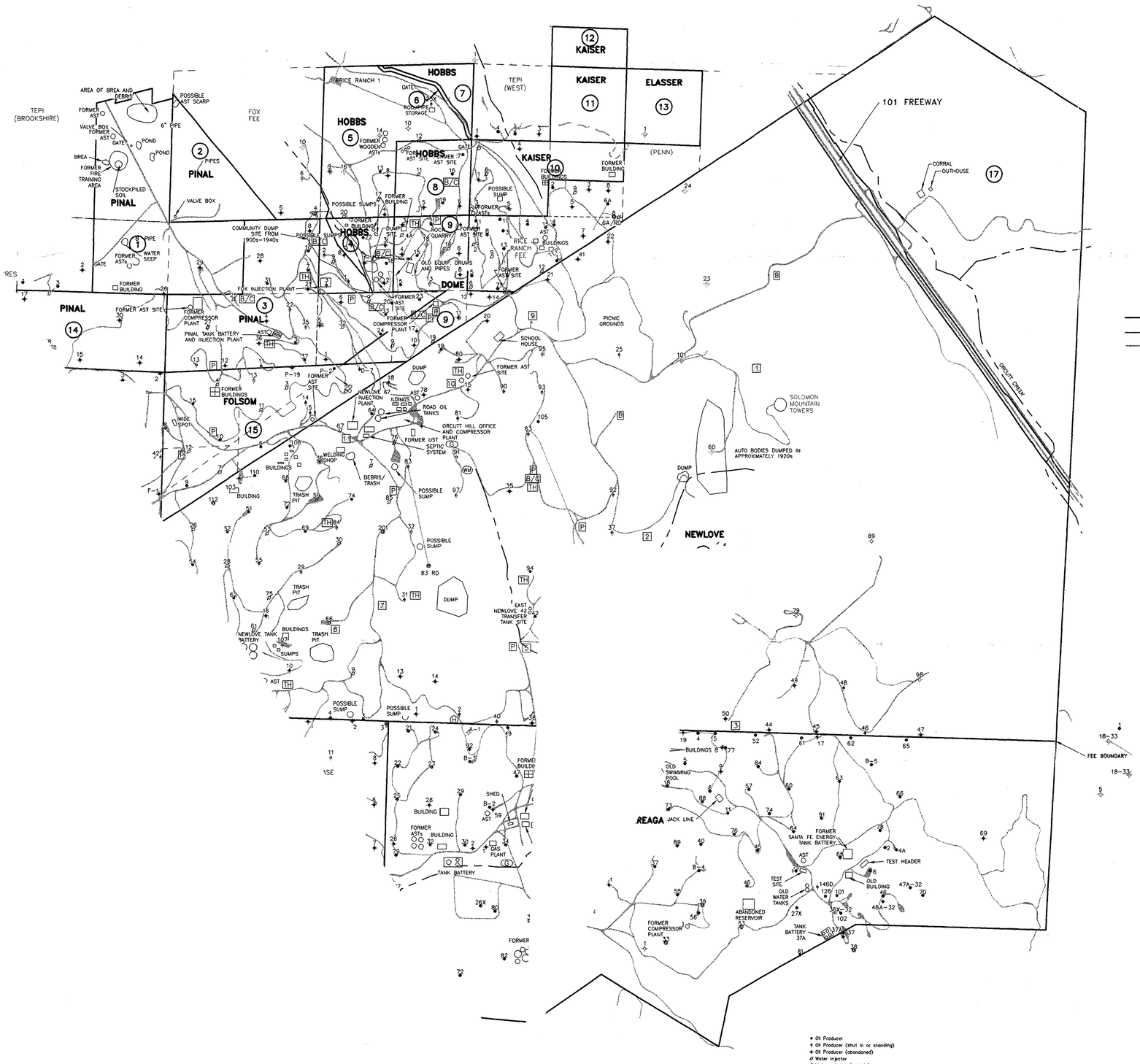


Figure 1

Orcutt Oil Field
Location Map
Newlove and Careaga Leases
Orcutt, CA

TR-31.DWG-10/19/00



LEGEND

- PARCEL BOUNDARY
- INTERMITTENT STREAM
- ROAD
- (5) PARCEL NUMBER
- OIL PRODUCER
- OIL PRODUCER (SHUT IN OR STANDING)
- OIL PRODUCER (ABANDONED)
- WATER INJECTOR
- WATER INJECTOR (SHUT IN)
- PLUGGED & ABANDONED (OIL SHOWS)
- PLUGGED & ABANDONED
- WATER INJECTOR (ABANDONED)
- PROPOSED LOCATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE
- [1] THREE SATELLITE DISHES
- [2] CONCRETE PAD
- [3] BRICK/CABLE DEBRIS
- [4] PICNIC AREA
- [5] WATER HOLE/TROUGH
- [6] SEPARATOR (CAREAGA SALES) & METER
- [7] 125-GALLON DEMULSIFIER TANK
- [8] ASPHALTIC MATERIAL ON PAD AND ON SLOPE TO SOUTH
- [9] USAF WEATHER STATION
- [10] RADIO TOWER AND CONCRETE BLOCK BUILDING
- [11] MICROWAVE STATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE

PARCEL	FIGURE NO.	AREA (APPROXIMATE)
1	3	141.9 ACRES
2	4	50.5 ACRES
3	5	157.4 ACRES
4	7	24.4 ACRES
5	8	101.5 ACRES
6	9	3.0 ACRES
7	9	15.3 ACRES
8	10	40.2 ACRES
9	11	73.4 ACRES
10	12	61.2 ACRES
11	13	39.7 ACRES
12	14	19.7 ACRES
13	15	40.1 ACRES
14	16	81.5 ACRES
15	17	127.5 ACRES
16	18	4046.8 ACRES
17	27	436.4 ACRES

REFERENCES:
DAMES & MOORE (1995)
CALIFORNIA DEPARTMENT OF CONSERVATION (2000)
L & P CONSULTANTS (2001)
USGS (1974)

0 1000 Feet
SCALE

N W E S

Harding ESE
A MACTEC COMPANY
2171 CAMPUS DRIVE, SUITE 100
IRVINE, CA 92612

DWG BY	NMM
DATE	6/19/01
REV BY	BAR
REVISED	10/01

SITE MAP

NUEVO ENERGY COMPANY
ORCUTT HILL AREA
SANTA BARBARA COUNTY, CA.

FIGURE NO. 2

PROJECT NO. 640268

DATE PLOTTED: 10/19/01

FILE: NUEVO\ORCUTT HILL\0500-0601-SITE MAP

North Hills

Existing Facilities & Disturbances

Existing Use & Development Areas

Revisions

Print Date:
May 17, 2007

Picnic Grounds

Mt. Solomon Facility

Communications Facility

Historic Orcutt Schoolhouse

Oil Field Office

Oil Operations & Headquarters Offices

Orcutt Community Plan Area

Inset 1

Inset 2

Inset 3

Inset 4

CALIFORNIA 135

101

Legend

- Amendment Area Boundary - Orcutt Fee (APN - 101-020-074) Source: LDC (July 2006)
- Oil Operations & Headquarters Offices
- Existing Dirt Roads
- Major Highways
- Proposed Circulation - Source: Calthorpe (April 2007)
- Existing Facility
- Development Area Footprint - Source: Calthorpe (March 2007)
- Potential Rural Lot Areas - Source: Calthorpe (March 2007)
- Orcutt Community Plan Area - Source: Digitized by FORMA
- Santa Barbara Aerial Source: AirPhotoUSA (Flown Sept. 2004)
- Waterstone Sample Points - Source: LDC (May 2007) *(Labels in Red)*

Wells

- SX Locations - Source: BreitBurn (Aug. 2006)
- Confirmed Well Locations - Source: LDC (March 2007)
- Unconfirmed Well Locations - Source: Breitburn (March 2006)

Subsurface Exploration - Source: Seward (May 2007)

- CPT Boring
- Hollow - Stem Boring
- Geologic Test Pit
- Geotech Test Pit
- Bucket - Auger Boring
- Fault Trench

Figure 3

Index Map Showing Environmental and Geotechnical Sampling Locations

INSETS 1-4
ARE SHOWN ON THE
FOLLOWING PAGES

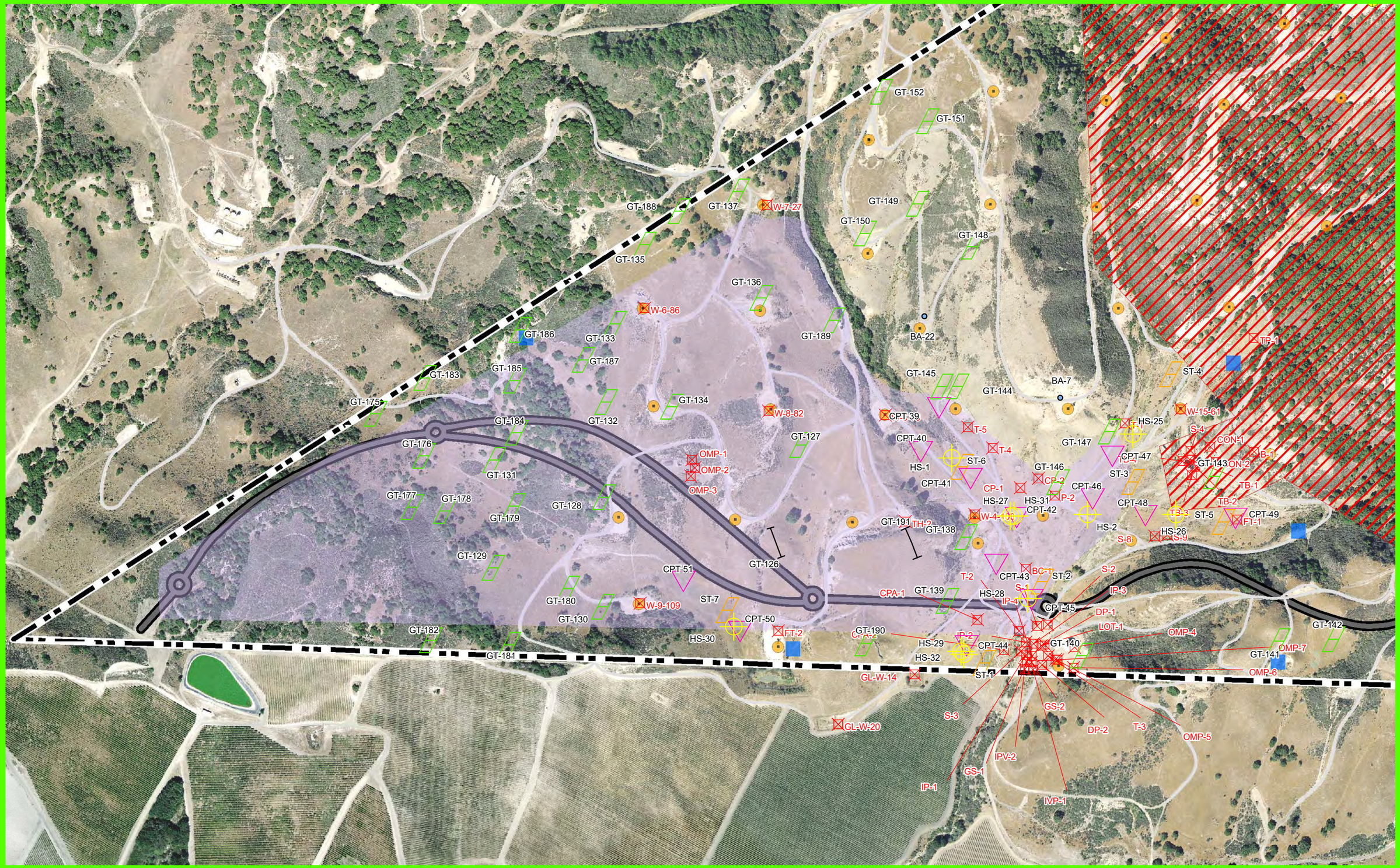
Careaga lease is shown on Insets 2 and 4 (sample IDs begin with CL-).

FORMA Systems

0 500 1,000 2,000 3,000 Feet

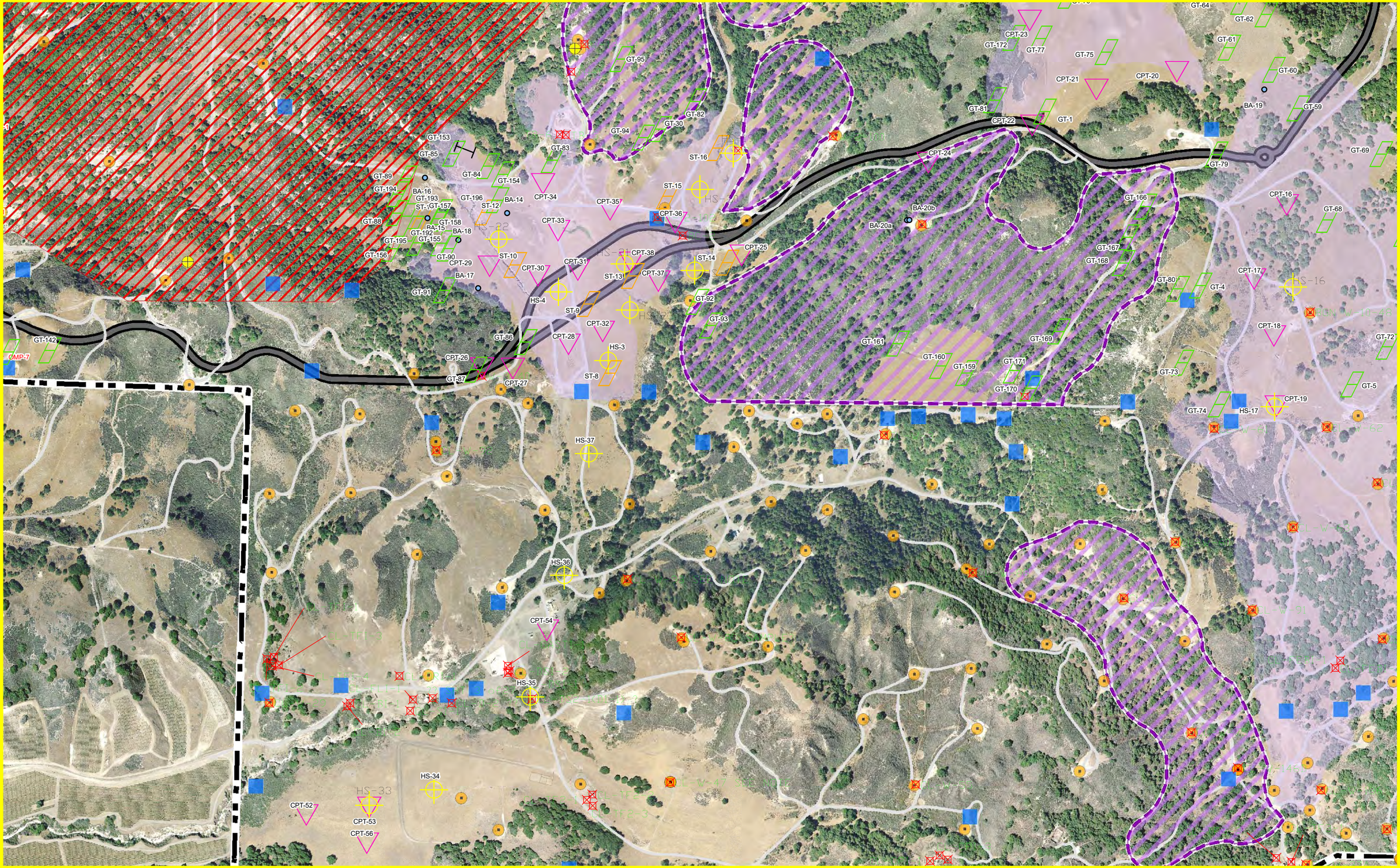
* In the event that Breitburn has not provided a well status, the condition of the well reverts to the status reported by the Department of Oil Gas & Geothermal Resources.

mxd: historic_use_location_fs051507



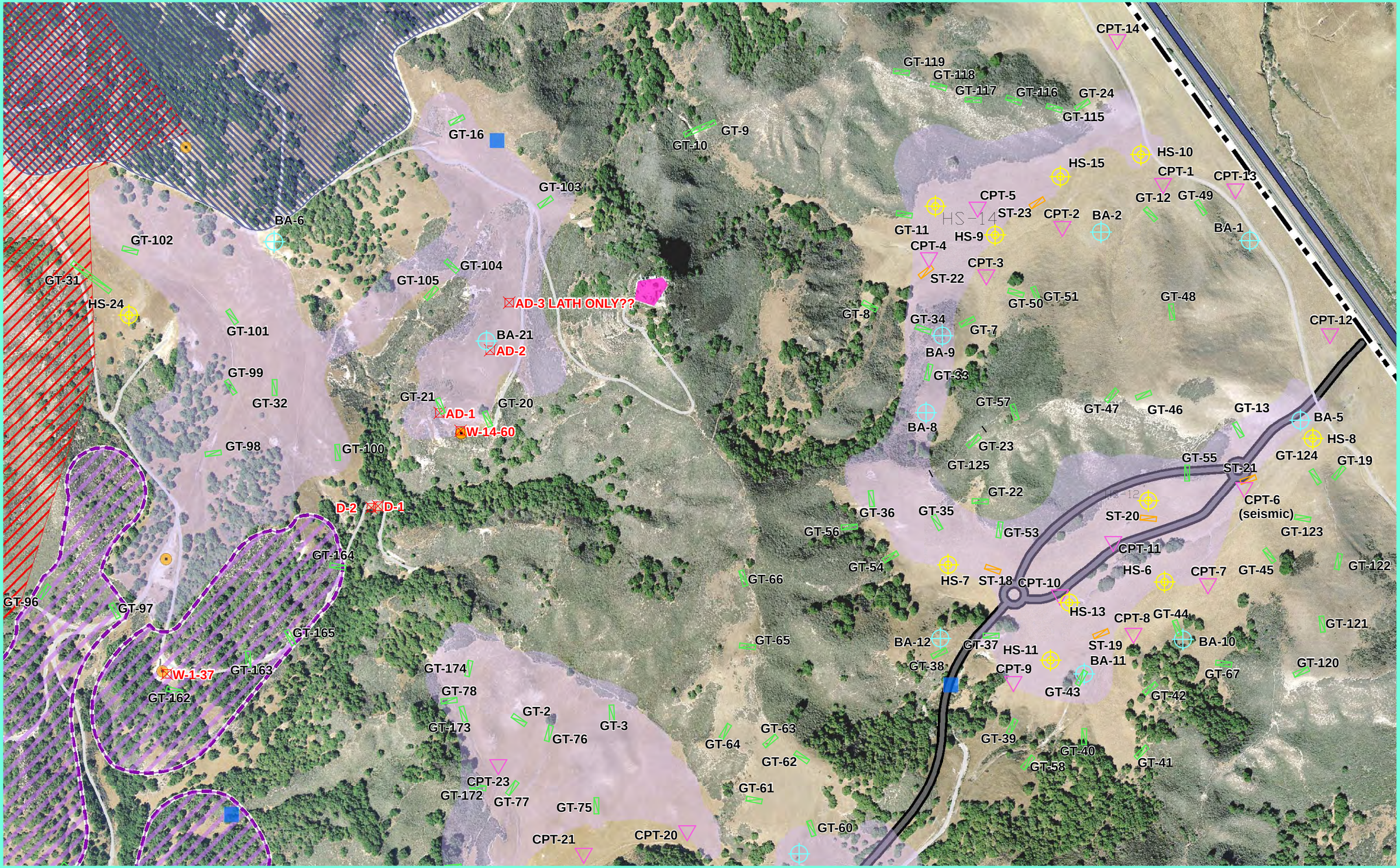
Inset 1

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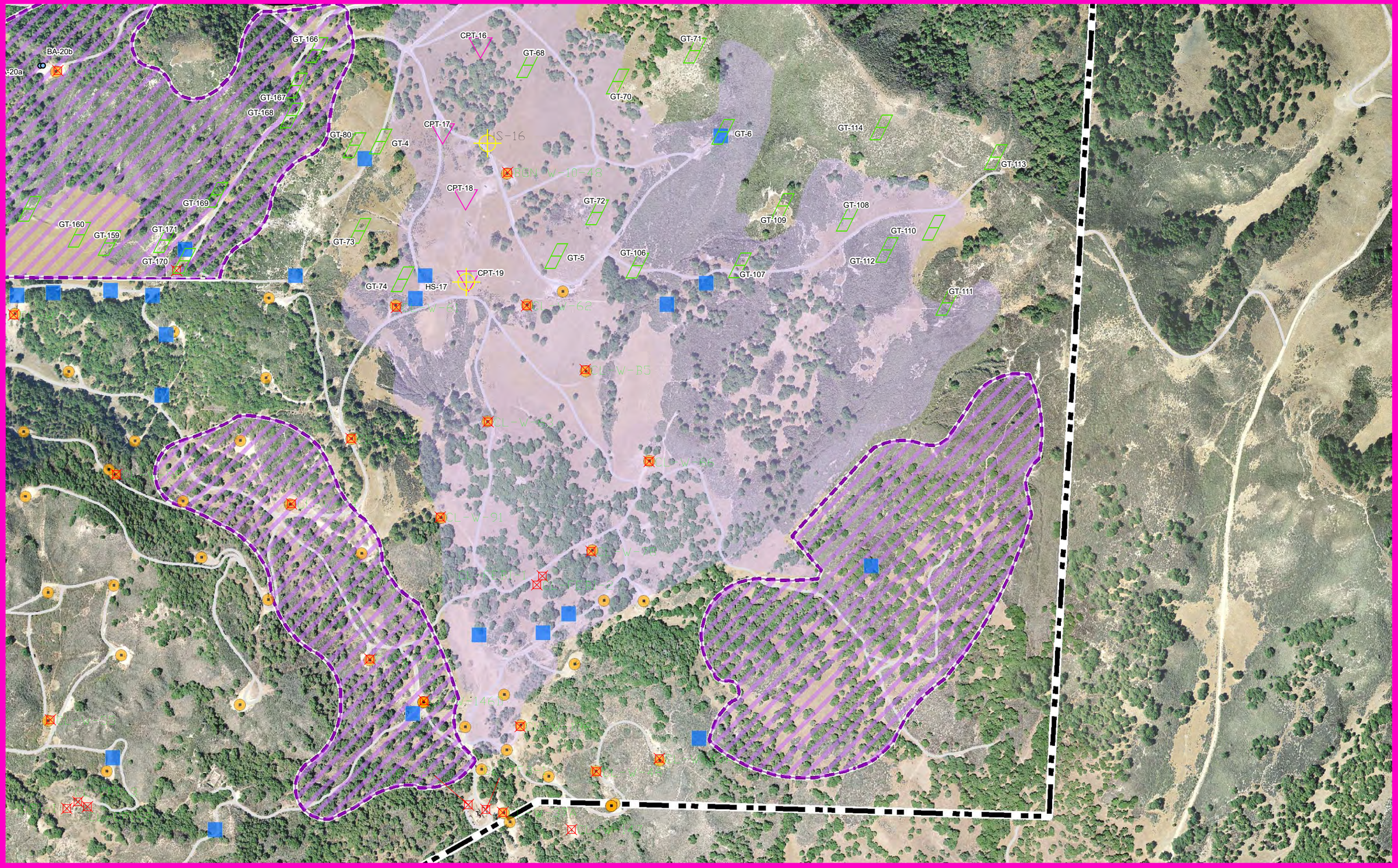
Inset 2

mxd: inset2_careaga_fs051507



Inset 3

mxd: inset3_newlove_fs051507



Inset 4

mxd: inset4_fs051507

Phase I Environmental Assessment Report

Subject Property Located at
Careaga Lease
APN: 101-080-086
Santa Barbara County, CA 93455

April 1, 2022 **Project: 22-104**

Prepared for: Mr. Rob Foss
Pacific Coast Energy Company LP
1555 Orcutt Hill Road
Orcutt, CA 93455

Prepared by:

Waterstone Environmental, Inc.
2936 East Coronado Street
Anaheim, California 92806
(714) 414-1122; Fax (714) 414-1166

Proprietary Notice:

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Section 8.0
Summary and Conclusions

8.1 Summary

The Subject Property is referred to as the Careaga Oil and Gas Lease (Assessor's Parcel No. 101-080-086) and is located within the properties identified as the Phoenix and Gitte Ten Oil Leases located in Sections 36 (T9N/R34W) and Sections 31 and 32 (T9N/R33W) in the southeastern part of the Orcutt Oil Field in northern Santa Barbara County (Figure 1). The Subject Property is located within the southern and western slopes of the Solomon Hills, due south of the town of Orcutt and is addressed as 7980 East San Antonio Road, Santa Maria, California. Ownership documents provided by the User also references a property address of 1555 Orcutt Hill Road, Santa Maria, California.

The Subject Property has been used for oil and gas exploration and production dating back to the early 1900s. A complex of existing dirt roads, oil wells, pipelines, associated machinery and oil production gathering and treatment facilities associated with oil and gas production are found throughout the Subject Property. The industrial operations include approximately 100 oil and gas wells, two (2) wastewater injection wells (one currently in operation), 12 cyclic steam wells, a Monterey and Diatomite tank facility and loading rack, a Steam Generator Area, and a water storage tank. A list of the current and former wells at the Careaga Lease is included as Table 1 of this report.

The Subject Property includes approximately 1,145 acres of rural land that has been used for grazing cattle and occasional farming activities since before the turn of the last century.

Based on available historical documents, local agency records, and previous environmental assessments, the history of the Subject Property and neighboring properties is summarized as follows:

- The Subject Property and surrounding areas are located in a portion of unincorporated Santa Barbara County that is identified as the Orcutt Hills and the Orcutt Oil Field. This area is primarily undeveloped but is also used for cattle grazing, agriculture and oil and gas production. Oil field activities began in the early 1900s and the company town of Bicknell was located in the northern portion of the Careaga Lease through at least the 1930s.
- Many small oil companies and Union Oil began the early development of the oil field and Union Oil was the primary operator through the 1950s.
- The Subject Property mailing address and current and former property operators (**Santa Maria Energy/Careaga Lease/Phoenix Energy)** were listed in the UIC, LDS, CIWQS, FINDS, ENF, and CERS databases in the EDR Report.
    - UIC database for two (2) waste disposal wells (API Number 0408320317, 0408320678) and 12 cyclic steam wells (API Number 0408322950, 0408322951, 0408322952, 0408322953, 0408322954, 0408322955, 0408322956, 0408322957,

0408322946, 0408322947, 0408322948, 0408322949) at the Careaga Lease.

- FINDS, EMI, and CERS databases for Hazardous Air Pollutants and stationary air emissions permitted at the Careaga Lease. Annual emissions are reported from 2006 to 2008 and 2012.
- CIWQS and ENF databases for 401 certification and a stream crossing improvement. A Notice of Violation was reported in 2019 which according to documentation received from the RWQCB was for failure to submit the 2018 annual report, which was subsequently submitted.
- LDS and CERS databases for the Santa Maria Energy Waste Pile Management Facility. This Land Disposal Site is currently operating and the potential contaminant of concern is Total Petroleum Hydrocarbons (TPH).

- Records identified on the RWQCB GeoTracker website indicate that the Subject Property is a Land Disposal Site that is a part of the Waste Pile Management Facilities (WPMF) program that was initially permitted in 2014. Annual monitoring reports are submitted to the RWQCB and document the volume and source of soil stored at the facility as well as BMPs. bottoms, spills and leaks associated with tanks and/or pipelines, drill cuttings, drilling muds, and spent sandblasting aggregate from various locations within the Careaga Lease. Characterization data for the existing stockpiles at the facility identified no hazardous materials.
- The RWQCB provided documents regarding SME's cyclic steam injection project. An undated RWQCB letter provided approval of the project based on the findings of a water well survey which did not identify a current beneficial use for groundwater.
- Two (2) SWPPPs have been prepared for the Careaga Lease: one for construction activities in accordance with the Construction General Permit and one for industrial activities in accordance with the Industrial General Permit. The inventory of materials onsite that could pollute storm water includes asphalt, crude oil, wastewater from construction equipment washing, hydraulic oil/fluids, gasoline, diesel fuel, production chemical storage area, antifreeze/coolant, erosion, pesticides, fertilizer, cleaning solvents, and concrete. Due to TSS exceedances in recent years, a Level 1 ERA Report was prepared in October 2020 and a Level 2 ERA Action Plan in December 2020.
- Unpermitted wastewater discharges to an idle injection well and a USGS Blue Line Creek were identified in files from the RWQCB; however, no follow-up documentation from the RWQCB was available. The well was approved for conversion to a water disposal well in 2006. Based on information provided by the current operators, these operations have not been conducted for the last 12 years at a minimum.
- Documents provided by the RWQCB Spills Program describe a release of natural gas and condensate from Well 45-5 which occurred during an inspection of a leaking valve in May 1997, resulting in a spill approximately 5-10 barrels of condensate and oil over an area of 100 yards. The RWQCB approved a request for beneficial reuse of the crude oil contaminated soil as augmentation to an existing berm enclosing an oil and gas production well site. Sampling of the soil identified TPH-diesel at 13,100 mg/kg (down from 27,400 mg/kg 3 weeks prior), diesel-DI WET of 0.27 mg/L, TPH-gas of 770 mg/kg, toluene of 59 mg/kg, ethylbenzene of 40 mg/kg, m,p-xylenes of 250 mg/kg, and o-

xylenes of 61 mg/kg. Follow-up testing conducted in November 1997 showed no additional concern for water quality following the Spills Program request for additional analysis of metals, pH, fish bioassay, SVOCs, and reactive cyanide/sulfide. The Spills Program approved the reuse of the oily soil onsite, but they requested that the flashpoint, remeasured at 120 degrees, be verified for concerns that the soil may be readily ignitable, and suggested consultation with the Santa Barbara County Hazardous Materials Unit.

- Notices of Violation (NOV) and Hazardous Materials Minor Spill and Release Incident Reports were supplied by CalGEM and Santa Barbara County from 2002 through 2011 for various issues, including releases of oil and/or produced water from leaks, blow-outs, overfilling of a tanker at a tank battery, and minor violations for plan deficienes. Most of the documents indicate that the conditions was abated but not all of the spills reports have follow-up documentation provided. A 2007 release of fluid from cleaning a tank by well #16 notes that final cleanup of crude oil and produced water to be addressed during facility closure. For several releases with small volumes of produced water or crude oil considered to be routine, the abatement is described as "mixed with dirt."
- Santa Barbara APCD maintains various permits for the Subject Property, including for Santa Maria Energy (FD 1517) for steam generators, valves and flanges for fugitive hydrocarbon gas and oil components, pumps, shipping tanks, wash tanks, separators, compressors, skids, manifolds, hydrogen sulfide removal vessels, wells, fire water engines and tanks, tank heater, thermal oxidizers, coolers, recycled water filters and tank, various vessels and holding tanks, and emergency standby generator.

  Annual reports detail emissions associated with a flare and thermal oxidizer, VOC content of solvents (mineral spirits, xylene, brake cleaner) and paints used onsite, oil and gas production rates, and H2S readings associated with the Monterey Gas Plant Vessels and Diatomite Gas Plant Vessels.

  Authority to Construct 13986 authorizes the installation, emission limitations, operational restrictions, monitoring, recordkeeping, reporting, and other requirements for oil and gas equipment associated with the cyclic steam injection Diatomite Project (discussed above in the RWQCB files).

  NOVs received in the past five years include a violation of Rule 206 for exceedance of total sulfur content during an August 14, 2018 thermal oxidizer source test, and a violation of Rule 331 for operating with an open-ended line leaking in excess of 1,000 ppm during an August 11, 2016 inspection, which was repaired the same day.
- Several environmental assessments have been performed for the Orcutt Hill oil field since 1995. These assessments generally encompassed both the Careaga Lease and other leases in the vicinity of the Subject Property. These reports are summarized as follows:
  - **Dames and Moore (1995):** Dames and Moore concluded that operations and site conditions were generally typical of oilfield properties and that the property was well maintained. Items of potential environmental concern identified by Dames and Moore aside from those outlined above included oil sprayed on embankments for erosion control, and discarded sulfide chips from oxide beds.
  - **ENSR (1995):** Sampling was performed by ENSR in 1995 at a former AST location, GeoPetroleum Tank Battery, well test facility AST, PCB transformer

area, and former UST locations. Free oil was encountered below the ground surface at the tank battery in the western portion of the site adjacent to the gas plant. Soil vapor sampling detected elevated concentrations of total petroleum hydrocarbons (TPH), methane, benzene, and toluene at the oil loading area located at the western edge of the tank battery and an area of stained soil adjacent to the concrete pad for the compressor at the gas plant.

- **Harding ESE (October 2001):** At the Subject Property, Harding ESE reported 81 active/idle oil/gas/injection wells, 34 plugged/abandoned wells, three tank batteries (Careaga Tank Battery, Tank Battery 37A, Tank Battery 36X), a gas plant, former compressor plant, office building and storeroom, warehouse/machine shop which had burned down, a water reservoir, test headers, ASTs, gas trap, several other storage buildings, and a jack line at Wells 6 and 11. The tank batteries had ASTs, earthen berms, pumps, compressors, and pole-mounted transformers. A LACT [Lease Automatic Custody Transfer] unit and drain/sump were reported at the Careaga Tank Battery. Test headers were reported at Tank Battery 37A and north of Well 44. Staining was reported on the soil near the pump pads and at the gas plant in the pump and glycol boiler areas. Transformers were reportedly stored on wooden pallets at the gas plant. A leaking transformer and stained soil were reported at the former compressor plant.
- **Tetratech (2003):** This environmental assessment, which covered 13 Nuevo Energy and Conoco/Phillips lease and fee properties within the Orcutt Oilfield, identified RECs to be stained soils adjacent to oil well pump pads, oil stained soil downslope from oil well pads, pipelines, chemical storage and usage, test headers, condensate traps, hazardous vapor releases at tank batteries, former and existing ASTs, residual drill sumps near oil wells, crude oil retention ponds, bermed sump ponds, roads and berms constructed with residual oilfield waste material, former buildings and facilities, potential PCB soil contamination near electrical power poles from former transformer fluid leaks, dump areas, and booster plants
- **Waterstone (September 2004)**. The Waterstone Phase I was prepared for several leases including the Careaga Lease; however, a site inspection was not performed for the Careaga Lease and the information from previous reports was summarized instead.
- **Waterstone (October 2007):** Waterstone performed a Phase II investigation at the Newlove and Careaga properties to evaluate environmental conditions and determine whether remedial action would be required. The study included sampling and analysis of soil at more than 100 oilfield features for TPH, VOCs, SVOCs, and metals. On the Careaga Lease, concentrations over 3,500 ppm (a risk assessment threshold) were reported at three oil wells, one location at compressor/condensate/caustic/inject plants, at the fuel loading station, at existing/former ASTs, and at one blow-down casing/test header. Volatile and semi-volatile compounds were mostly not detected. Metal concentrations were not detected above background levels.

- Based on the results of the site inspection (further discussed in Section 7), no excessive crude oil spills or other chemical spills to soil were noted and no stained soil or oil were

observed at the well heads examined. Crude oil and material spills are generally handled by moving the impacted material to the permitted WPMF. However, soil vapor sampling by ENSR in 1995 detected elevated concentrations of total petroleum hydrocarbons (TPH), methane, benzene, and toluene at the oil loading area located at the western edge of the tank battery and an area of stained soil adjacent to the concrete pad for the compressor at the gas plant. There is not currently a potential for vapor encroachment because there are no permanent structures on the Subject Property.

At the time of the Subject Property inspection, the properties adjacent to the Subject Property were observed as follows (see Figure 2):

North: The Newlove oil lease is immediately north of the Subject Property and is developed similarly to the Subject Property.

East: Undeveloped and agricultural land are east of the Subject Property. The 101 Highway is farther east of the Subject Property.

South: The Careaga Mineral Fee is south of the Subject Property. Undeveloped and agricultural land continues south of the Subject Property.

West: The Harris (Graciosa) Lease is west of the northern portion of the Subject Property. Undeveloped and agricultural land continues west of the Subject Property.

On March 7, 2022, Waterstone performed an inspection of the Subject Property and vicinity. During the site visit, Waterstone staff observed the following operational equipment in good condition and former features at the Careaga Lease:

- Field Office
- Equipment Storage Yard with Diesel and Gasoline ASTs
- Aboveground Storage Tanks (Careaga Tank Battery)
- LACT (Lease Automatic Custody Transfer) Unit and associated pumps
- Vapor Recovery Equipment
- Thermal Oxidizer
- Emergency Generator
- Steam Generating Equipment
- Water Treatment Equipment
- Contaminated Soil Waste Pile
- One active injection well and one inactive injection well
- Active Oil Wells
- Abandoned Reservoir
- Out-of-Service Tank Battery
- Out-of-Service Equipment and Storage Bins

No excessive crude oil spills or other chemical spills to soil were noted and no stained soil or oil were observed at the well heads examined.

8.2 Findings and Conclusions

Waterstone has performed a Phase I Environmental Site Assessment of the Subject Property in general conformance with the scope and limitations of ASTM Practice E 1527-13 and E 1527-21. Potential on- and off-Subject Property issues identified during this investigation are summarized as the following:

8.2.1 Potential Subject Property Issues

Based on the available environmental assessment data for the Subject Property, Recognized Environmental Conditions (RECs) were identified for the Subject Property:

- The Subject Property has been utilized for oil and gas production, storage, processing, and shipping since the early 1900s. Features of environmental concern include existing and former facilities such as oil/gas/injection wells, tank batteries, gas plant, loading area, chemical and equipment storage areas, condensate traps, sumps, pipelines, stained soil noted in and around various facilities/operational areas, dumpsites, compressor plant, possible former USTs, transformer sites, oil seep/stained areas, oily soils used for road/berm construction, and leaks/spills/pits involving crude oil/produced water/drilling mud.
- Past environmental investigations have reported elevated concentrations of petroleum hydrocarbons in and near the various site feature types listed above. These impacts are considered to be RECs.

The following should also be noted:

- Asbestos may be present in pipeline materials or pipeline wrap.
- Lead-based paint may be present in painted surfaces.
- Soil vapor sampling by ENSR in 1995 detected elevated concentrations of TPH, methane, benzene, and toluene at the oil loading area located at the western edge of the tank battery and an area of stained soil adjacent to the concrete pad for the compressor at the gas plant. There is not currently a potential for vapor encroachment because there are no permanent structures on the Subject Property.

8.2.2 Potential Off-Subject Property Issues

Recognized Environmental Conditions (RECs) **were not** identified in connection with off-Subject Property properties; however, the following should be noted:

- There are surrounding properties which also operate as oilfields and to the extent they are upgradient of the Subject Property, releases from these facilities may impact the Subject

Property.

8.3 Recommendations

If the current oilfield production operations continue, there is no need for further investigation or remediation of these areas. Operations should be performed in accordance with the rules, requirements, and regulations of appropriate agencies. But, if and when there is a change in the site use, or oilfield operations cease, these areas of concern should be targeted for sampling. Areas found to have elevated concentrations of chemicals of concern should be delineated and remediated to the satisfaction of the appropriate regulatory agencies.

Phase II Investigation and Remedial Action Plan

Solomon Hills

Santa Barbara County, California

June 27, 2024 **Project: 23-148**

Submitted to: **County of Santa Barbara Environmental Health Services**
225 Camino del Remedio
Santa Barbara, CA 93110

On Behalf of: **Solstra Communities California, LLC**
1555 Orcutt Hill Road
Orcutt, CA 93455

Prepared by:

Waterstone Environmental, Inc.
2936 East Coronado Street
Anaheim, California 92806
(714) 414-1122; Fax (714) 414-1166

Table 1
Sampling and Analysis Matrix
Solomon Hills Development (Newlove and Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Location ID	Lease	Well/Location	Sample Depths (ft bgs)				
			Soil				Soil Vapor
			TPH (8015M)	VOCs (8260B)	SVOCs (8270C) Title 22 Metals (6010B/7471A)	SVOCs (8270C) PCBs (8082)	VOCs (8260B)
CL-W-61	Careaga	Well #61	5,10,15	5,10,15	5	--	10,15
CL-W-60	Careaga	Well #60	5,10,15	10	10	--	--
CL-W-74	Careaga	Well #74	5,10,15	10	5,10	--	--
CL-TH1	Careaga	Test Header/ Pipe Corridor	2,5,10	5	2,10	--	10
CL-TR1	Careaga	Test Header/ Pipe Corridor	2,5	5	2	--	--
CL-W-6	Careaga	Well #6 Section 31	5,10,15	10	10	--	--
CL-W-77	Careaga	Well #77	5,10,15	10,15	10	--	--
CL-W-45	Careaga	Well #45	5,10,15	10	5	--	--
CL-W-75	Careaga	Well #75	5,10,15	10	10	--	--
CL-W-37A	Careaga	Well 37A (Abandoned)	5,10,15	10,15	10	--	--
TF3, TF4	Careaga	Section 32 Tank Battery	2,5,10,15	5,10	2	--	10
CL-W-78	Careaga	Well #78	10,20,25,30	10,20,25,30	20	--	10,20
CL-W-63	Careaga	Well #63	10,20,25	10,20,25	10	--	10,20
CL-FEB1	Careaga	Former SFE Tank Battery	2,5,15	5,15	2	--	10,15
CL-W-B-5	Careaga	Well B-5	5,10,15	10	10	--	--
CL-SEP1	Careaga	Oil Separators	2,5,10	5	2	--	10
CL-T-1	Careaga	Pole/Transformer Storage Area	1,2,5	--	--	1,2	--
CL-W-6(32)	Careaga	Well #6 Section 32	5,10,20	10,20	20	--	10,20
AD-2	Newlove	Former Auto Bodies Dump	--	--	--	--	10,20
N-W-22	Newlove	Well #22	5,10,15	10	10	--	--
N-W-46	Newlove	Well #46	5,10,15	10	10	--	--
N-W-48	Newlove	Well #48	5,10,15	10	10	--	--

Notes:

ft bgs	feet below ground surface	SVOCs	semi-volatile organic compounds
TPH	total petroleum hydrocarbons	PCBs	poly chlorinated biphenyls
VOCs	volatile organic compounds	--	not sampled/not analyzed

Table 2
Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-W-6	5	1/31/2024	<50	<50	<99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<82	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	<4.1	<4.1	ND
		20		<9.9	**18**	**26**	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.3	<4.7	<4.7	ND
Careaga	CL-W-37A	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<84	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.4	<4.2	<4.2	ND
		15		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
Careaga	CL-W-45	5	1/30/2024	<9.9	**12**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<92	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<4.6	<4.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	<9.9	**17**	**22**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	**46**	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**4.7**	<3.6	<3.6	**12**	<3.6	**12**	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<10	**19**	**30**	<77	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	ND
		10		<9.9	<9.9	<20	<69	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<6.9	<3.5	<3.5	ND
		15		<9.9	<9.9	<20	<69	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-63	10	1/30/2024	<10	<10	<20	<90	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<9.0	<4.5	<4.5	ND
		20		**320**	**3,800**	**1,500**	<89	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		25		<10	**24**	<20	<130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	ND
Careaga	CL-W-74	5	1/30/2024	<9.9	**11**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	**1,400**	**76**	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	**19**	<20	**150**	**85**	**37**	**7.6**	**5.2**	**7.6**	<4.2	<4.2	**5.7**	**4.5**	<4.2	**9.3**	<4.2	**11**	**19**	**30**	ND
		15		<10	**11**	<20	<69	**59**	**9.2**	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-78	10	1/30/2024	<9.9	<9.9	<20	<100	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	ND
		20		**1,600**	**7,200**	**2,800**	<4,600	**730**	**13,000**	**9,400**	<230	**12,000**	**1,800**	**1,200**	**9,100**	<230	<230	<230	**7,200**	<460	<230	<230	ND
		25		<10	<10	<20	<78	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.8	<3.9	<3.9	ND
		30		<9.9	<9.9	<20	<75	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.5	<3.8	<3.8	ND
Careaga	CL-W-B-5	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
Careaga	CL-SEP1	2	1/30/2024	<50	**61**	**120**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.8	<4.4	<4.4	ND
		10		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-TF3	2	1/31/2024	<50	<50	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<50	<50	<100	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	ND
		10		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<50	**180**	**370**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	**31**	**23**	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		10		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<9.9	**13**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<73	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	ND
		10		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TR1	2	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<110	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	ND
Newlove	N-W-22	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<73	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.3	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<75	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.5	<3.7	<3.7	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				NA	260[3]	12,000[3]	70,000,000[2]	330[1]	5,800[2]	1,900,000[2]	33,000,000[2]	2,000[1]	2,400,000[1]	--	3,800,000[2]	1,100,000[1]	940[2]	300,000[2]	2,200,000[1]	550,000[2]	640,000[2]	580,000[2]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
bgs	below ground surface
	Result exceeds screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 3
Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	All Other SVOCs	Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**260**	<250	<250	**2,000**	ND	**1.7**	**35**	<0.49	<0.49	**--**	**7.6**	**1.2**	**2.9**	**1.8**	**1.9**	**3.3**	**9.1**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<250	<250	<250	**1,600**	ND	**1.0**	**43**	<0.48	**2.2**	**--**	**10**	**6.2**	**3.3**	**3.9**	**1.6**	**12**	**15**	**13**	ND
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**700**	ND	<0.98	**18**	<0.49	<0.49	**--**	**5.1**	**1.3**	**1.4**	**1.7**	**1.2**	**2.4**	**8**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	<250	<250	<250	**2,100**	ND	**7.2**	**45**	**0.99**	**0.59**	**--**	**17**	**14**	**2.5**	**5.4**	**7.7**	**18**	**29**	**13**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**13**	**50**	**1.2**	**0.51**	**--**	**26**	**5.3**	**28**	**5.8**	**2.1**	**50**	**35**	**82**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<250	<250	<250	**670**	ND	<0.98	**38**	<0.49	<0.49	**--**	**6.3**	**1.6**	**3.7**	**2.8**	**1.1**	**4.9**	**7.9**	**11**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	**17,000**	<12,000	<12,000	ND	<0.98	**14**	<0.49	<0.49	**--**	**22**	<0.49	**1.8**	**4.2**	**1.2**	**4.1**	**8.6**	**15**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	<250	<250	<250	<250	ND	**3.1**	**80**	<0.48	<0.48	**--**	**22**	**1.2**	**4.2**	**8.1**	**2.4**	**7.6**	**27**	**9.8**	ND
		10		<250	<250	<250	**1,900**	ND	**4.2**	**170**	<0.48	**53/56**	**0.69**/<0.25	**26**	**1.7**	**4.9**	**3.1**	**1.9**	**41**	**34**	**39**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,200**	ND	**1.7**	**30**	<0.49	<0.49	**--**	**17**	**1.9**	**5.6**	**4.4**	**2.3**	**7.4**	**17**	**13**	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	<0.98	**32**	<0.49	<0.49	**--**	**6.5**	**1.8**	**3.2**	**2.3**	**1.2**	**5.9**	**8.8**	**6.5**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	<12,000	**15,000**	<12,000	ND	<0.97	**21**	<0.49	<0.49	**--**	**6.0**	**0.88**	**1.8**	**1.6**	<0.97	**4.7**	**11**	**5.2**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.0**	**22**	<0.49	<0.49	**--**	**9.7**	**0.80**	**3.7**	**2.8**	**1.8**	**3.9**	**8.8**	**6.0**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**	**Di-n-octyl-phthalate**	**1-Methylnaph-thalene**	**2-Methylnaph-thalene**	**Phenol**	**All Other SVOCs**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium 6010B/6020**	**Cadmium (STLC/TCLP) (mg/L)**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Molybdenum**	**Nickel**	**Vanadium**	**Zinc**	**All Other Metals**
Careaga	CL-FEB1	2	1/31/2024	<250	<250	<250	<250	ND	<0.99	**30**	<0.50	<0.50	--	**5.4**	**1.1**	**2.4**	**2.6**	**1.9**	**3.7**	**7.7**	**5.7**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	<5,000	<5,000	<5,000	<5,000	ND	**1.5**	**29**	<0.49	<0.49	--	**6.6**	**1.4**	**6.5**	**11**	**4.0**	**4.7**	**13**	**16**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	<2,500	<2,500	<2,500	<2,500	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2		<250	<250	<250	<250	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF3	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	**1.2**	**110**	<0.49	**0.74**	--	**7.3**	**1.4**	**4.7**	**3.3**	**2.3**	**6.2**	**10**	**52**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	<0.98	**36**	<0.49	**0.89**	--	**4.9**	**0.91**	**3.3**	**4.2**	**4.4**	**3.7**	**7.8**	**13**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<2,500	<2,500	<2,500	<2,500	ND	**1.3**	**24**	<0.48	<0.48	--	**7.6**	**0.84**	**3.2**	**3.0**	**1.8**	**3.6**	**8.5**	**8.6**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**3.0**	**12**	<0.48	<0.48	--	**11**	**0.68**	**2.2**	**3.1**	**2.9**	**3.6**	**14**	<4.8	ND
Careaga	CL-TR1	2	1/30/2024	<250	<250	<250	<250	ND	**1.6**	**35**	<0.50	<0.50	--	**6.1**	**1.3**	**3.3**	**2.3**	**3.4**	**4.3**	**10**	<5.0	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**2,000**	ND	**4.8**	**18**	<0.49	<0.49	--	**8.0**	**0.77**	**1.6**	**3.5**	**19**	**4.3**	**15**	**5.8**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.1**	**16**	<0.48	<0.48	--	**10**	**1.2**	**2.0**	**2.6**	**1.5**	**3.6**	**14**	**12**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,100**	ND	**1.5**	**38**	<0.48	<0.48	--	**15**	**2.1**	**4.4**	**3.6**	<0.95	**8.5**	**19**	**16**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			Residential Screening Levels	630,000[1]	9,900[1]	240,000[4]	19,000,000[1]	--	12[3]	15,000[4]	16[4]	78[4]	1/1**	120,000[2]	23[4]	3,100[4]	80[4]	390[4]	820[4]	390[4]	23,000[4]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface
	Detection exceeded screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 The screening level of 12 ppm for arsenic is within the range of naturally-occurring background levels for California soils as cited in Bradford et. al., "Background Concentrations of Trace and Major Elements in California Soils", Kearney Foundation Special Report, UC-Riverside and CAL-EPA DTSC, March 1996.

4 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 4
Soil Analytical Results for PCBs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	PCBs EPA Method 8082 (µg/kg)
Careaga	CL-T-1	1	1/30/2024	<50
		2		<50
			Residential Screening Level	170

Notes:

ND/<	Not Detected above noted Reporting Limit
PCBs	Polychlorinated Biphenyls
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface

Table 5
Soil Vapor Analytical Results - Solomon Hills Development (Newlove & Careaga Leases)
Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Volatile Organic Compounds EPA Method 8260B ($\mu g/m^3$) Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other VOCs
Careaga	CL-W-6(32)	10	1/31/2024	**9.0**	**45**	**13**	**13**	<40	<12	**17**	<12	**10**	<8	**134**	<8	**37**	**10**	**130**	ND
		20		<8	**31**	**14**	**10**	<40	<12	**12**	<12	<8	<8	**68**	<8	**27**	<8	**99**	ND
Careaga	CL-W-61	10	1/31/2024	**25**	**21**	<8	<8	<40	<12	<8	<12	<8	<8	**221**	<8	**19**	<8	**98**	ND
		15		**67**	**23**	<8	<8	<40	<12	<8	<12	<8	<8	**300**	**46**	**16**	<8	**95**	ND
		15 REP		**74**	**23**	<8	<8	<40	<12	<8	<12	<8	**9.0**	**313**	**76**	**16**	<8	**89**	ND
Careaga	CL-W-63	10	1/31/2024	**12**	**14**	<8	<8	<40	<12	<8	<12	<8	<8	**100**	<8	**13**	<8	**70**	ND
		20		**561**	**2,520**	**2,380**	**483**	<40	<12	**787**	**1,210**	<8	<8	**959**	<8	**1,220**	**301**	**4,127**	ND
Careaga	CL-W-78	10	1/31/2024	**553**	**6,540**	**2,900**	**602**	**67**	**220**	**2,290**	**1,200**	<8	<8	**160**	<8	**2,960**	**23**	**2,588**	ND
		20		NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
Careaga	CL-FEB1	10	1/31/2024	**8**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	--	ND
		15		**16**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**20**	<8	<8	<8	--	ND
Careaga	CL-SEP1	10	1/31/2024	**12**	**56**	**26**	**10**	<40	<12	**27**	**16**	**9.0**	<8	**52**	<8	**40**	<8	**99**	ND
Careaga	CL-TF3	10	1/31/2024	**11**	**9.0**	<8	<8	<40	<12	<8	<12	<8	<8	**33**	<8	**12**	<8	**16**	ND
Careaga	CL-TF4	10	1/31/2024	**9.0**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	**19**	ND
Careaga	CL-TH1	10	1/31/2024	**232,000**	**35,600**	**8,760**	<2400	<12000	<3600	**5,900**	<3600	<2400	<2400	**55,900**	<2400	**9,200**	**4,770**	**71,200**	ND
Newlove	AD-2	10	1/31/2024	**43**	**20**	<8	<8	<40	<12	<8	<12	<8	<8	**106**	<8	**19**	<8	**78**	ND
		20		**17**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**35**	**9**	**9**	<8	--	ND
Indoor Air Screening Level				0.097	1.1	--	--	0.083	--	1,000	--	940	0.46	310	0.48	63	63	100	
Residential Screening Level AF= 0.03				3.2	37	--	--	2.8	--	33,333	--	31,333	15.3	10,333	16	2,100	2,100	3,333	
Residential Screening Level AF= 0.001				97	1,100	--	--	83	--	1,000,000	--	940,000	460	310,000	480	63,000	63,000	100,000	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
µg/m3	micrograms per cubic meter
bgs	below ground surface
NF	No flow

Screening Levels:
DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022). Unless Otherwise Noted (AF = 0.03).

AF = Attenuation Factor, applied according to Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion (February 2023).
* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) with appropriate AF because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

Table 6
Summary of Estimated Remediation Soil Volumes
Solomon Hills Development, Orcutt Oil Field
Orcutt, CA

Item/Feature	Est. Qty.	Assumed Basis	Assumed Size L x W x H	Ea (cy)	Subtotal (cy)	Tons
Wells/ Well Pads	60	25%	Conical Radius 20', Depth 12'	186	2,791	4,187
Sumps	10		25' x 25' x 7'	162	1,620	2,431
Tank Batteries	3		75' x 35' x 5'	486	1,458	2,188
Pipes			2,000' x 10 x 4'	2,963	2,963	4,444
Roads	184000	sf, 4 inches thick	0.33		2,272	3,407
Other Facilities	10		25' x 35' x 5'	116	1,157	1,736
Former Dump D-2	1		25' x 25' x 10'	231	231	347
			Subtotal		12,493	18,740
			Contingency	10%	1,249	1,874
Conversion Factor	1.5	tons/cy	**Grand Total**		**13,743**	**20,614**

Note: These estimates are based on available information for these oilfield facilities, the results of site investigations, various assumptions outlined herein, and the proposed site development.

Figures

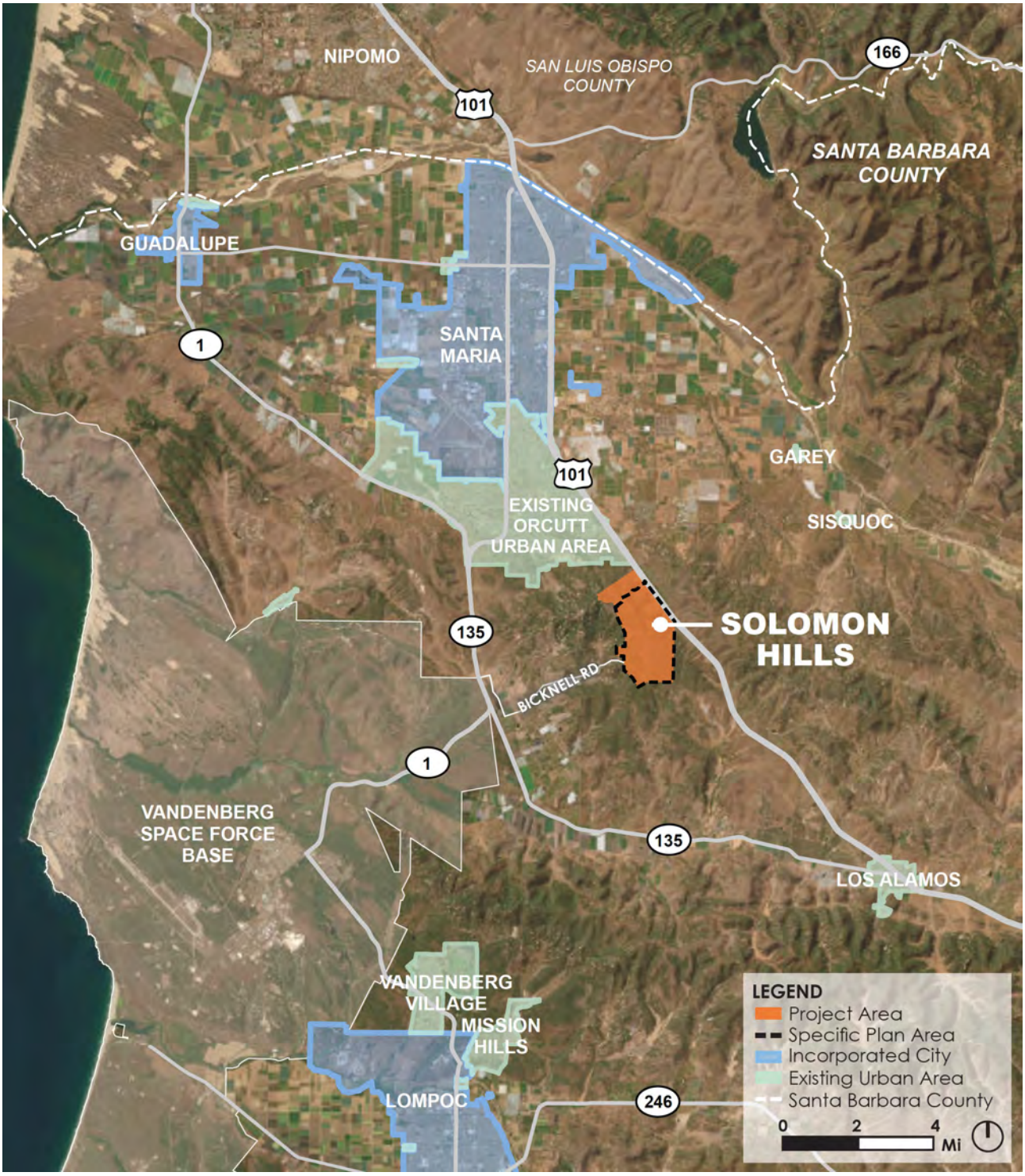


Figure 1
Subject Property Location Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

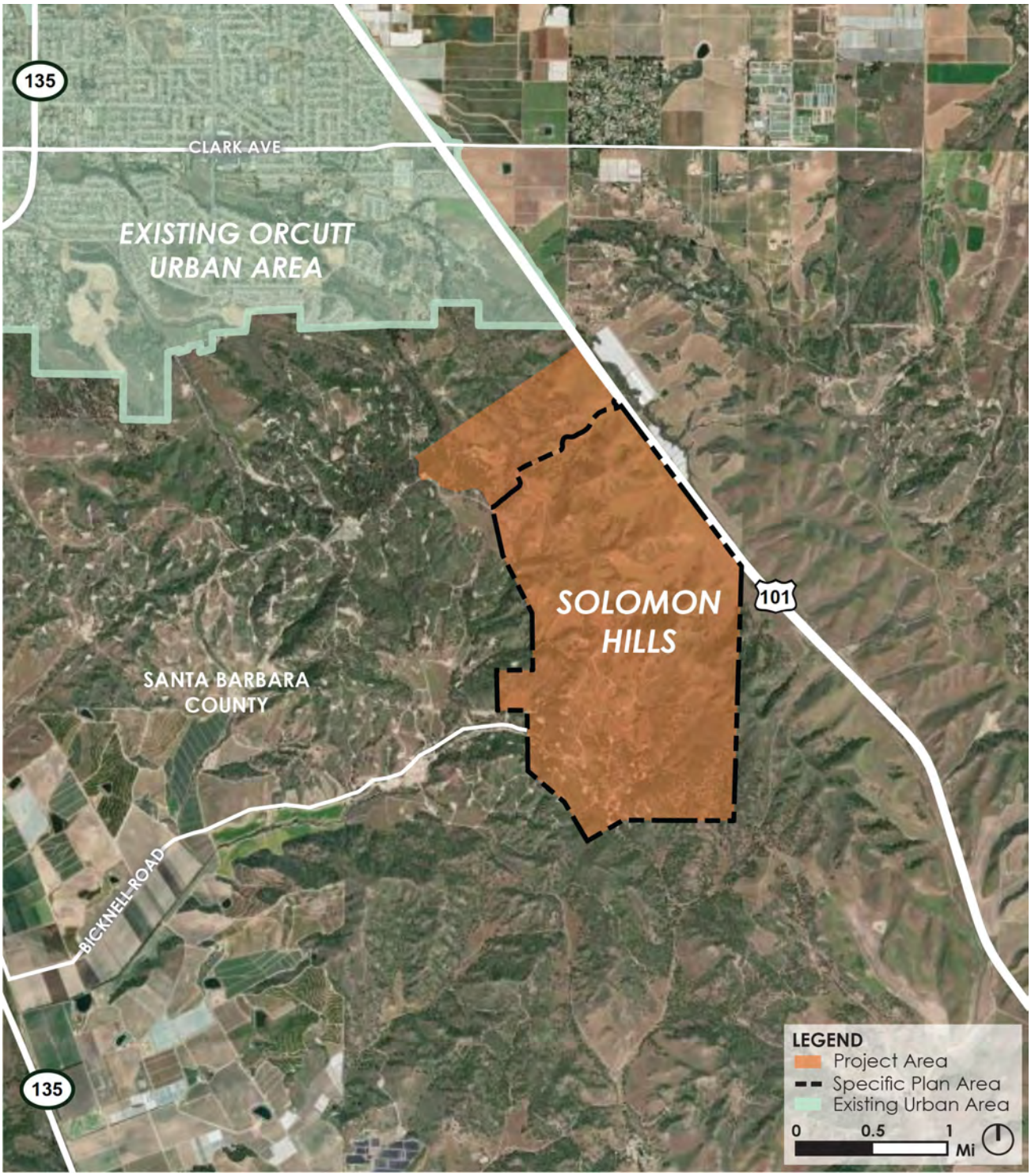


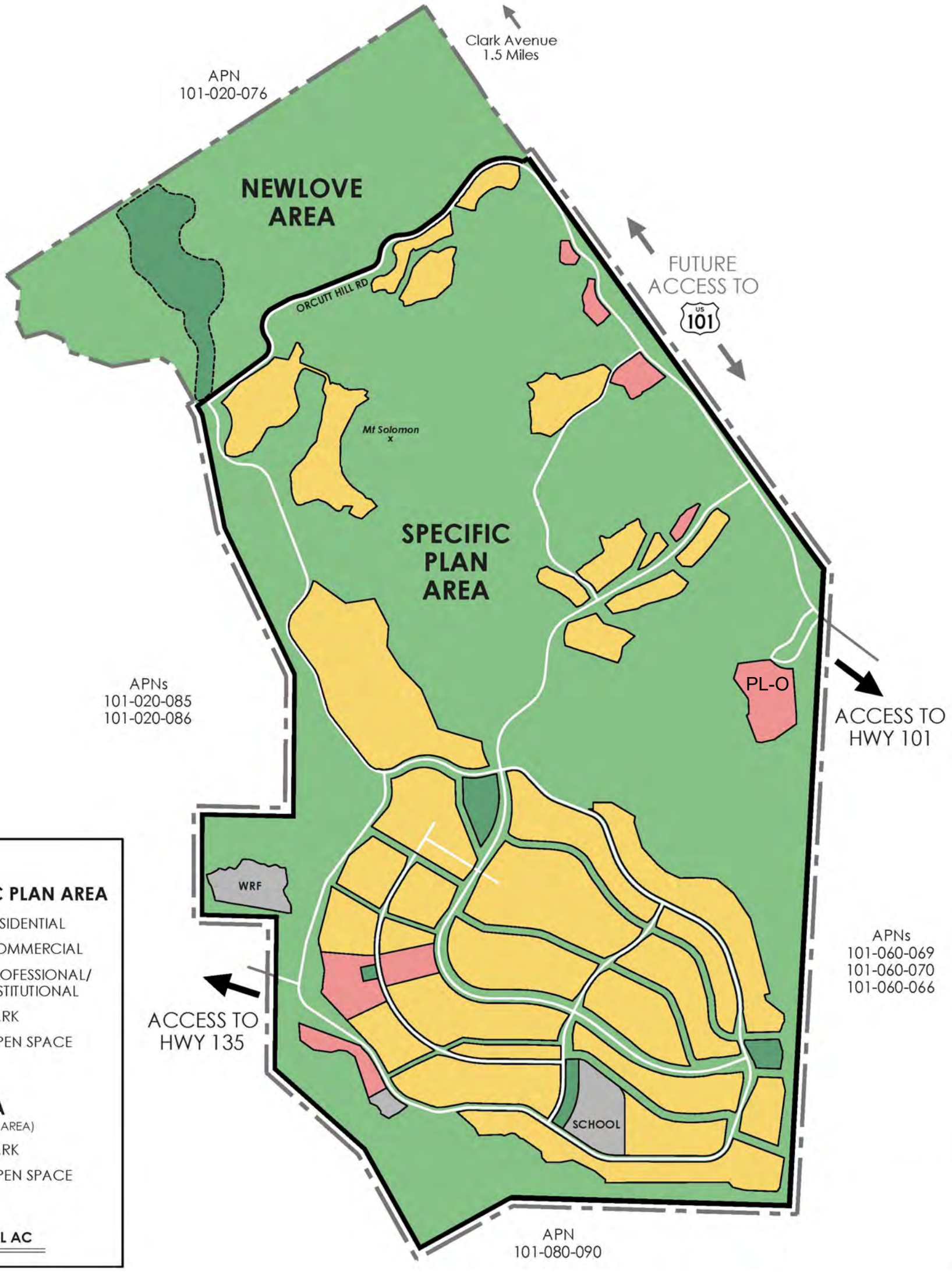
Figure 2
Subject Property Vicinity Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

SOLOMON HILLS
AREA DESIGNATIONS MAP
SANTA BARBARA COUNTY, CA



LEGEND

SPECIFIC PLAN AREA

546 AC	RESIDENTIAL
41 AC	COMMERCIAL
25 AC	PROFESSIONAL/ INSTITUTIONAL
41 AC	PARK
963 AC	OPEN SPACE
1,616 AC	

NEWLOVE AREA
(OUTSIDE SPECIFIC PLAN AREA)

31 AC	PARK
256 AC	OPEN SPACE
287 AC	

1,903 TOTAL AC

Figure 3
Development Map

Solomon Hills
Santa Barbara County, CA

Legend

NORTH

Approximate Scale
0 mi 0.125 mi 0.25 mi

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST., ANAHEIM, CA

Drawn By: TD	Project No:
Approved By: MS	Date: 5/27/2024



Figure 4
Grading Plan

Solomon Hills
Santa Barbara County, CA

NORTH

Approximate Scale

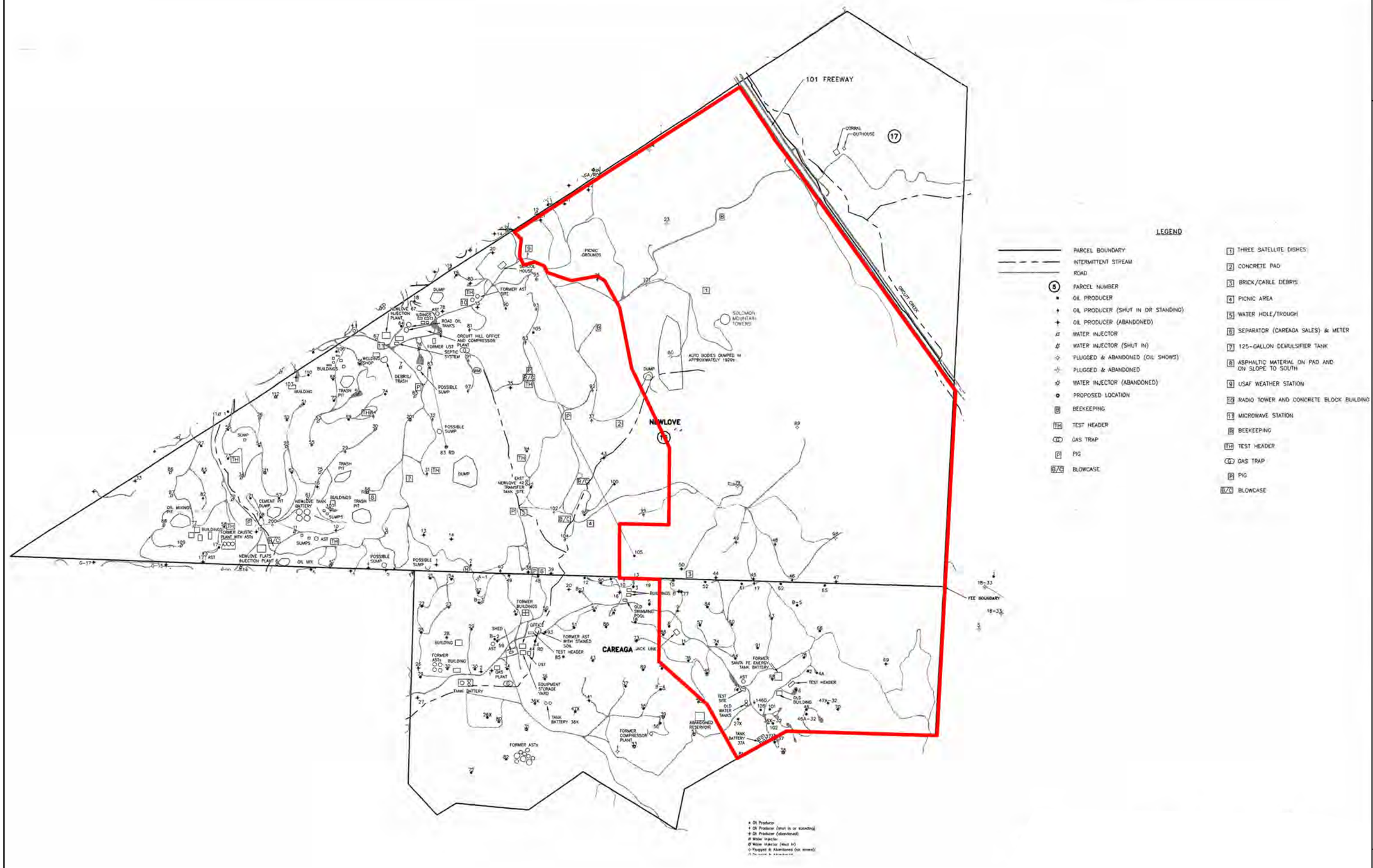
0' 200' 400'

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Figure 5
Environmental Features Site Plan

Solomon Hills
Santa Barbara County, CA



Reference: Harding ESE Env Site Assessment, Orcutt Hill Area, Santa Barbara County, California. Figure 2, October 22, 2001.

NORTH

0 1000' 2000'

Approximate Scale

Legend

Approximate Subject Property Boundary

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

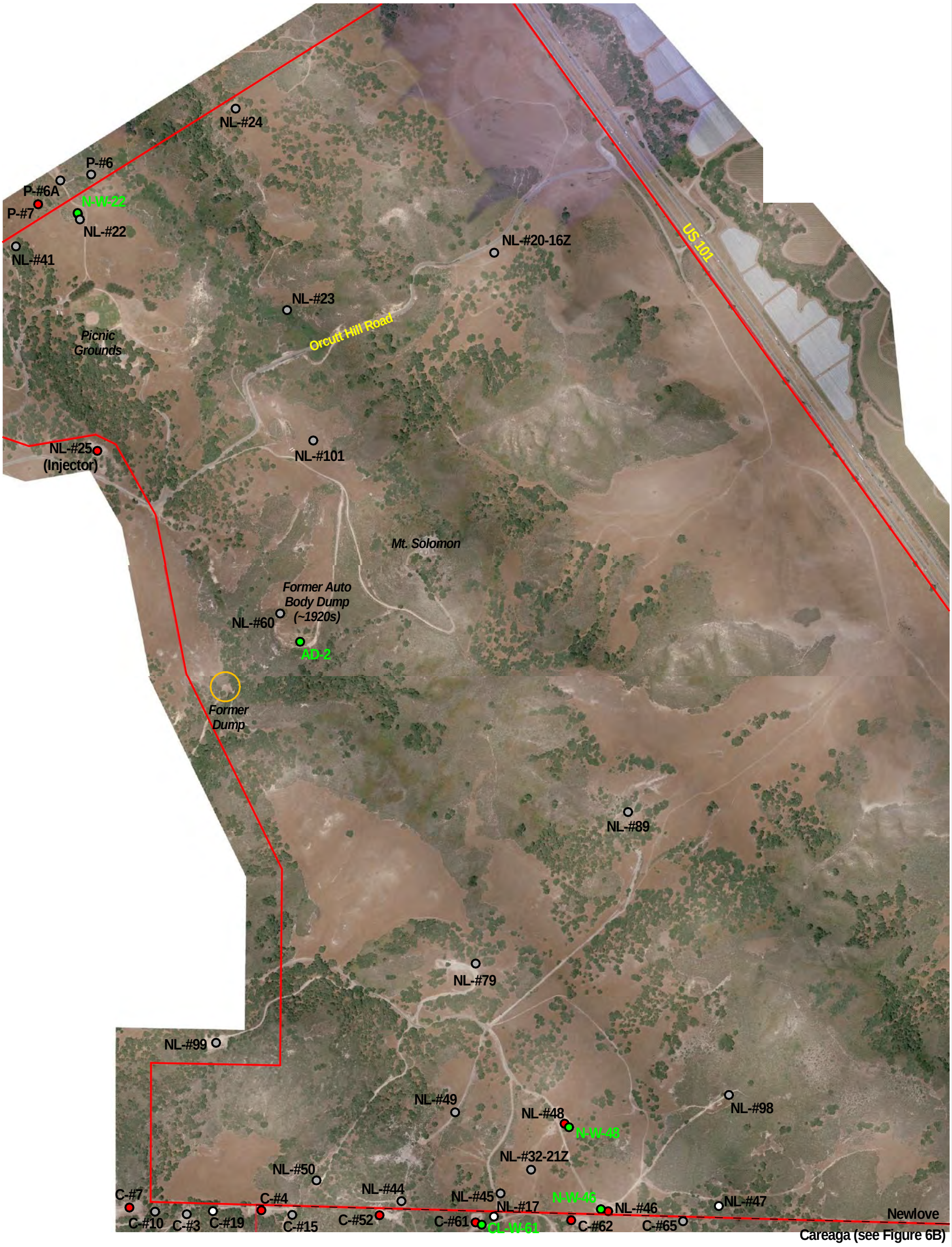


Figure 6A
Site Features, Sample Locations, and Areas of Proposed Remediation - Newlove

Solomon Hills
North - Newlove Area

Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

NORTH

Approximate Scale
0' 400' 800'

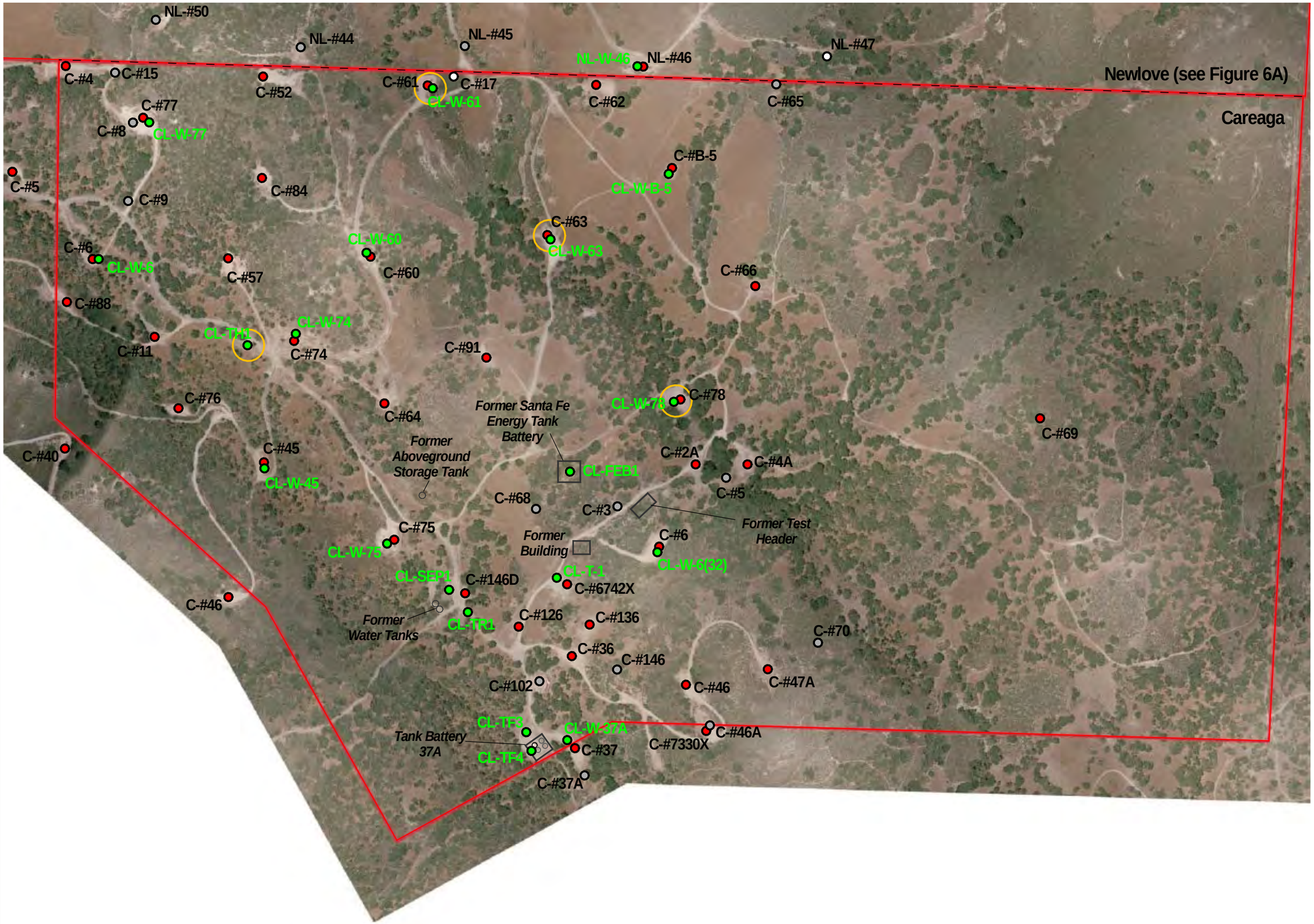
WATERSTONE ENVIRONMENTAL, INC.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

Figure 6B
Site Features, Sample Locations, and Areas of Proposed Remediation - Careaga

Solomon Hills
South - Careaga Area



Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

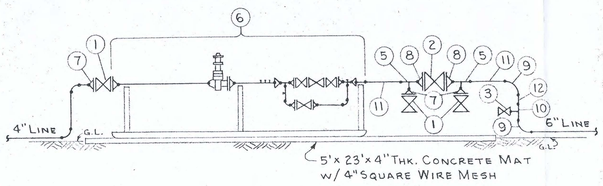
NORTH

Approximate Scale

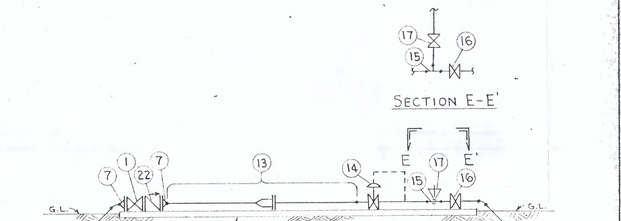
0' 250' 500'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

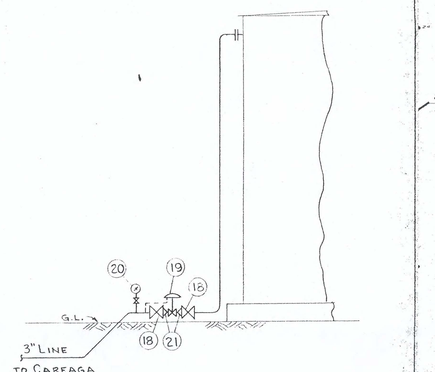
Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24



DETAIL "A"



DETAIL "B"



DETAIL "C"

MATERIAL LIST

ITEM	QTY.	DESCRIPTION
1	5	4" ORBIT - FIG. # 1223 FLG'D BALL VALVE
2	4	6" ORBIT - FIG. # 1223 FLG'D BALL VALVE
3	5	2" VOGT - SERIES SW-10103 SOCKET WELD GLOBE VALVE
4	2	PRESSURE INDICATOR (0-1000 P.S.I.) w/ 1/2" NEEDLE VALVE
5	2	6"x6"x4" STD. WT. REDUCING OUTLET WELD TEE - ASTM A106 - GRD. B
6	1	DANIEL ANSI 300 SENIOR METER TUBE & REGULATOR SKID
7	5	4" ANSI 300 RF, W.N. FLANGE (SCH. 40 BORE)
8	2	6" ANSI 300 RF, W.N. FLANGE (SCH. 80 BORE)
9	2	6" - 90° L.R. STD. WT. WELD ELL - ASTM A106 - GRD. B
10	1	6"x6"x2" STD. WT. REDUCING OUTLET WELD TEE - ASTM A106 - GRD. B
11	2	24" PUP 6" A.P.I. 5L GRD. B SMLS. - SCH. 40
12	1	5 3/4" PUP 6" A.P.I. 5L GRD B SMLS. - SCH. 40
13	1	DANIEL ANSI 150 FLANGNEK SENIOR METER TUBE
14	1	FISHER MODEL 99 REGULATOR (EXIST.)
15	1	4"x4"x3" STD. WT. REDUCING OUTLET WELD TEE - ASTM A106 - GRD. B
16	1	4" ROCKWELL THR'D'D STL. PLUG VALVE (EXIST.)
17	1	3" ROCKWELL THR'D'D STL. PLUG VALVE (EXIST.)
18	5	3" TEXSTEAM B.W. PLUG VALVE
19	1	1" FISHER 125 P-4160 R BACK PRESSURE VALVE
20	1	PRESSURE INDICATOR (0-500 P.S.I.) w/ 1/2" NEEDLE VALVE
21	2	3"x1" GONC. STD. WT. WELD REDUCER - ASTM A106 GD. B
22	1	4" F.W.I. 300# ANSI R.F. FLG'D STL. CHECK VALVE

SEE DETAIL "A"
SEE DETAIL "B"
SEE DETAIL "C"
T. 9 N. – R. 33 W.
T 8 N – R 34 W
T 8 N – R 33 W
NEW 3" OIL LINE
EX. 4" & 6" GAS LINE
3" OIL LINE
6" GAS LINE
4" GAS LINE
TIE TO P.C.L. 16" GAS MAIN
EXIST. METER
ORCUTT FIELD
WEST CAT CANYON AREA
FOUR DEER AREA
LOS ALAMOS
CAT CANYON FIELD
BRADLEY CANYON AREA
HOME STAKE AREA
TIDEWATER
Los Flores Land & Oil Co
Union Oil Company (Newlove)
Union Oil Co. (Hoist)
Union Oil Co. (Reiser)
Union Oil Co. (Bell)
Getty Oil Co
Williams Holding Co
Tidewater Oil Co
Standard Oil Co. (Alexander)
Alva W. Gillett
Arthur G. Ainscough
Miles A. Sharkey et al
U.S. SR
N

SHELL OIL COMPANY	PACIFIC COAST AREA	MECH. ENG. DEPT.

MAIN FUEL GAS LINE AND ORCUTT OIL TRANSFER LINE
CAT CANYON FIELD
SANTA BARBARA COUNTY, CALIF.

DATE 3-25-71	SCALE 1" = 2000'
DRAWN BY J.S.C.	
CHECKED BY J.C.S.	C6-1026
APPROVED BY	

Prepared for:
Santa Maria Energy
2811 Airpark Drive
Santa Maria, CA

Prepared for:
AECOM
5075 S. Bradley Road
Santa Maria, CA

Spill Prevention Control and Countermeasures (SPCC) Plan

Careaga Oil & Gas Lease
State Designated Orcutt Field
Santa Barbara County, California

April 8, 2013 (Rev #3)



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PRODUCTION FACILITY 'ILL CONTINGENCY PLAN
CCR 1722.9

Operator Name, Address, Phone, Contact

Name: Santa Maria Energy

Address: 2811 Airpark Drive

City, State, Zip: Santa Maria, CA 93455

Phone: (805) 938-3320

Contact: Kevin Yung

email:

Field/Lease: Careaga Lease

Sec. 31 **Twn.** 9N **Rge.** 33W

Facility Name, Address, Phone, Contact

Careaga Lease

Main Gate: 7980 East San Antonia Road

Lompoc, CA 93437

County: Santa Barbara County

Offshore: Y (N) (circle one)

Additional Facilities, Fields, Leases, Sections, Townships, Ranges, etc.:

A 24-Hour Emergency Contact Information **[Contact needs to be prepared to provide Division Staff with complete Facility Emergency Shutdown Procedures. Reference CCR 1722.9(a)]**

	Name	Job Title	Telephone/Cell Number
1	Dave Dueck	Field Supervisor	(805) 266-2442
2	Laurie Tamura	Regulatory Affairs Manager	(805) 431-6713
3	Kevin Yung	Production Manager	(805) 266-9344
4	Ian Marquardt	Facilities Forman	(805) 266-6806
5	Operator Cell 1&2	Operator Cell	(805) 478-4352 & 863-7998

B Available Personal Protective/Safety Equipment

	Type	Location	Maintenance Frequency
1	Rubber gloves x3, industrial gloves x3,	Emergency Response Trailer	N/A
2	neoprene gloves x3, hip waders 4 pairs,		
3	safety glasses x20		
4			
5			

C Initial Stage Quick Action Checklist

(See examples)

D Government Agency Notification List (All examples may not apply)

Telephone Number

1	National Response Center (NRC)	800-424-8802
2	BOEMRE/OEMM (formerly MMS)	800-672-2627
3	Bureau of Land Management (BLM)	(916) 978-4400
4	United States Coast Guard (USCG)	800-221-8724
5	Environmental Protection Agency (EPA)	800-300-2193
6	California Emergency Management Agency (CEMA)	800-852-7550
7	Division of Oil, Gas and Geothermal Resources	(805) 937-7246
8	Department of Fish and Game (OSPR)	800-852-7550 or 800-OILS-911
9	Dept. Toxic Substances Control (DTSC)	800-698-6942
10	State Lands Commission (SLC)	562-590-5201
11	State Fire Marshall	(916) 445-8200
12	California Highway Patrol	(805) 549-3261
13	Regional Water Quality Control Board	(805) 549-3147
14	County Health Department	(805) 346-8460
15	Fire Department	911
16	Local Police	911
17	Certified Unified Program Agencies (CUPA's)	911

CUPA's are often fire departments, environmental health departments, or emergency services departments. They may provide resources and liaison functions during oil spills.

E Spill Control/Cleanup Equipment Available Either Onsite or in Another Location

(If at other location, please describe contact/requisition procedures)

	Equipment	Onsite Location or Contact/Requisition Procedures
1	4" and 6" oil absorbent socks, absorbent pads,	Emergency response trailer
2	shovels x6, pitch forks x2, rakes x3,	
3	push broom, 5X7 tarp x3, 9X12 tarp,	
4	caution tape x4 rolls, emergency tape x4 rolls,	
5	large containment x2, Hudson sprayers x3,	
6	brushes x2, trash bags x2 boxes,	
7	simple green 1 gallon, first aid kits x2,	
8	water bottles x3 5 gallon bottles,	
9	utility pans x4, eye wash station,	
10	traffic cones x5	

F Map of Production Facilities Including the Location and Labeling of:

1	Permanent Tanks	7	Tank & Storage Container Volumes with Contents Stored
2	Equipment	8	Designated Waterways within 1/4 mile of Facility
3	Pipelines	9	Secondary Containment with Access Routes
4	Access Roads for Emergency Response	10	Topography or Drainage Flow Direction
5	All Out-of-Service Equipment	11	Storm Drains within 1/4 mile of Site
6	Sumps and Catch Basins	12	A Fluid Flow Schematic

See Figures 1-1 to 1-3 and OM1PN1001 to PM1PN1010

Note: Operators may need to supply maps with all well locations listed. Refer to "Production Facility" definition, CCR 1760.

G Chemicals that Require a Material Safety Data Sheet and the Location of those Sheets

A separate sheet(s) may be needed to fulfill this requirement.

	Chemical	MSDS Location		Chemical	MSDS Location
1	Asphaltine inhibitor	Office Trailer	11	Produce waste water	Office Trailer
2	Corrosion inhibitor	Office Trailer	12	Water clarifier	Office Trailer
3	Crude oil	Office Trailer	13		
4	Demulsifier	Office Trailer	14		
5	Gear lubricant	Office Trailer	15		
6	Hydraulic oil	Office Trailer	16		
7	Hydrogen sulfide scavenger	Office Trailer	17		
8	Hydrogen sulfide treatment	Office Trailer	18		
9	Oxygen scavenger	Office Trailer	19		
10	Produce field gas	Office Trailer	20		

H Procedures for Making Regular Facility Inspections and Maintenance of Inspection Records

1 Description of Inspection Procedures: [reference CCR 1773.3(b)]

Well heads and Stuffing Boxes (visual free of leaks and oil stains) - daily

Oil Gathering Lines (visual free of leaks and oil stains) - daily

Tank Containment (water in secondary, debris, valves operational and closed, pathways clear, gates operational) - weekly

Leak Detection (Visual signs of leakage around tank, pad, containment, ring wall, piping or ground) - weekly

Tank Attachments and Appurtenances (Ladder secure, tank gauge readable, sealed openings, piping condition) - weekly

H Procedures for Making Regular Facility Inspections and Maintenance of Inspection Records (continued)

2 Maintenance of Inspection Records: [reference CCR 1777.3]

Other weekly conditions (spill kits supplied, vault [secondary containment] near capacity) - weekly

Tank Containment (structure in satisfactory condition, drainage pipe/valves in good service) - annually

Tank foundation and supports (tank settlement, cracking of pad or ring wall, supports, grounding strap) - annually

Cathodic protection (CP system functional) - annually

Tank external coating (paint failure) - annually

Tank shell/heads (distortion, buckling, denting, bulging, corrosion or cracking) - annually

Tank Manways, piping and equipment with secondary containment (bolts tight and fully engaged/wear) - annually

Tank roof (standing water, coating, cracking, crazing, peeling, holes or blistering) - annually

Venting (free of obstructions, emergency vent operable) - annually

Insulated tanks (insulation missing, moisture, mold, damage, water protection) - annually

Level and overfill prevention instrumentation of shop fabricated tanks (liquid level sensing device, damage) - annually

Electrical equipment (grounding lines in good condition, wiring for control box in good condition) - annually

	Facility	Typical Rate	Maximum Rate
1	Oil	419 bbl/day	NA
2	water	4374 bbl/day	NA
3	Gas	754 mcf/day	NA
4	API Gravity	20	NA
5			NA

J Typical Volumes of Liquids Stored at the Facility

	Facility	Typical Volume		Facility	Typical Volume
1	Wash tank	1,500 bbl	6	Wastewater	1,000 bbl
2	Wastewater	2,000 bbl	7	Reject tank	1,000 bbl
3	Stock tank	1,000 bbl	8	Shipping tank	1,000 bbl
4	Stock tank	1,000 bbl	9		
5	Wash tank	1,000 bbl	10		

K List of additional containment features for production facilities in drainages with direct access to waterways or urban areas as determined by the Supervisor.

1 Facility: Oil sep. Has direct access to waterways [Y] Is in an urban area [N]

Additional Containment Feature(s)

Un-named ephemeral streams and drainage structures upstream of the Barke Slough (Figure 1-1), would first be affected by spills. Because no known drinking water intakes exist along these water courses, agricultural water supply is assumed to be the primary resource at risk.

2 Facility: Has direct access to waterways [ ] Is in an urban area [ ]

Additional Containment Feature(s)

3 Facility: Has direct access to waterways ☐ Is in an urban area ☐
Additional Containment Feature(s)

4 Facility: Has direct access to waterways ☐ Is in an urban area ☐
Additional Containment Feature(s)

L Corrosion Prevention or Corrosion Monitoring Techniques Utilized

1 Tank thickness testing on all tanks by taking thickness readings at thickness monitoring locations.
2
3
4
5
6
7

M **Description of All Installed Sensor and Alarm Systems**

These may include alarms or sensors for Tank Overfill, High and Low Pressure for Pipelines, Fire, H_2S, Gas, etc...

A separate sheet(s) may be needed to fulfill this requirement.

1

2

3

4

5

N **Description of the Training Provided to Implement the Spill Contingency Plan**

The RC is accountable for personnel training, facility inspections, spill contingency procedure, facility operation, and records maintenance. Annual training will be coordinated by management for oil-handling personnel to review SPCC topics, ensure adequate understanding of SPCC requirements, and heighten spill-prevention awareness. A training checklist is presented in Appendix D of the 2012 Careaga Lease SPCC Plan. Table 1-9 of the 2012 Careaga Lease SPCC Plan lists spills occurring at the facility over the past 5 years. This information is used for spill-prevention training purposes.

Additions, Additional Comments:

1 General Information

1.1 General Information

Part 112, Title 40 of the Code of Federal Regulations (the federal rule) requires the following general facility information for onshore, oil production, Spill Prevention, Control, and Countermeasure Plans (SPCCs).

Name of Facility:

Careaga Oil and Gas Lease within the State Designated Orcutt Field

Type of Facility:

Onshore Oil Production
Standard Industrial Classification: 1311
Crude Petroleum and Natural Gas

Name and Address of Owner or Operator:

Santa Maria Energy
2811 Airpark Drive
Santa Maria, California 93455

Location of Facility:

The main facility gate is along Graciosa Road 2.5 miles northeast of the intersection of State Highway 135 and Highway 1 as listed in Table 1-1. The actual facility is located along ranch roads, 4.1 miles inside the gate as mapped in Figure 1-1.

Table 1-1
Entrance Gates

Installation	Street Address
Careaga (Main Gate)	7980 East San Antonio Road

Total Facility Acreage:

Table 1-2 lists the mineral lease administered as the Careaga Lease. The larger Careaga lease divides into two leaseholds as mapped in Figure 1-1:

Table 1-2
Facility Acreage

Careaga Lease	Lease Area (acres)
Active Leasehold	1,145
Inactive Leasehold	1,907

Regulatory Overview:

40 CFR 112 (the SPCC rule) establishes requirements for SPCC plans, intended to minimize oil spills to the waters of the United States (US). On January 29, 2011 Assembly Bill 1960 went into effect in California that amends or adds various sections to the Public Resources Code affecting all oil and gas production facilities and the Division of Oil, Gas, and Geothermal Resources (DOGGR) operations. AB 1960 provides the DOGGR with clear statutory definition and the authority to inspect, monitor and regulate oil and gas production facilities and expands their existing ability to enforce the new regulation requirements. AB1960 also has further defined and increased the monetary penalties for non compliant facilities.

The federal SPCC rule applies to all onshore oil production facilities that:

1. due to size and location, reasonably could discharge oil to the waters of the United States, and
2. have bulk oil storage capacity greater than 1,320 gallons (31 barrels [bbl]).

Distance to Waters of the US:

Recent federal court cases and Environmental Protection Agency (EPA) guidance define the waters of the US as follows:

1. Waters that are navigable in the traditional sense (ie the Pacific Ocean)
2. Non-navigable tributaries to navigable waters that flow continuously, or at least seasonally (ie. San Antonio Creek, and Barka Slough), and
3. Waters upstream of non-navigable tributaries that significantly affect the waters of the US. A written finding of 'significant nexus' is typically made for upstream, non-navigable tributaries.
4. Erosion features having only ephemeral flow are not considered waters of the US.

Navigable and non-navigable waters of the US are mapped in relation to the facility in Figure 1-1. The continuously (or at least seasonally) present waters of the Barka Slough are interpreted as the nearest waters of the US.

It is not known if a formal finding of 'significant nexus' has been made on the 6.9 or 9.8-mile ephemeral stream beds upstream of the Barka Slough. It is not likely that a spill from the facility could travel the length of these streambeds and reach the slough.

Hence due to the size and location of this facility, it is not apparent that it poses a threat the waters of the US, technically making the SPCC rule inapplicable. Notwithstanding, this SPCC is presented in accordance with the federal SPCC rule because the facility contains tanks larger than 31 barrelks.

Topical Order:

Because topics in this SPCC are not arranged in the sequence of 40 CFR 112, Table 1-3 cross references plan paragraphs with applicable 40 CFR 112 sections.

Table 1-3
SPCC Rule Cross Reference

40 CFR Section	Section Topic	This SPCC Paragraph
112.3(d)(1)	Professional Engineer Certification	1.3
112.4	Spill Reporting Requirements	1.4
112.5	SPCC Amendment	1.2
112.7	Management Approval	1.2
112.7(a)(1)	Discussion of Conformance	1.16
112.7(a)(2)	Deviation from Specific Requirements	1.16
112.7(a)(3)	Facility Diagram	1.7
112.7(a)(3)(v)	Cleanup Disposal	1.17
112.7(a)(4)	Spill Contact List	1.4
112.7(b)	Spill Prediction And Control	1.9
112.7(c)	Sized Containment	1.8
112.7(d)	Contingency Plan	1.10
112.7(e)	Inspections, Tests, and Records	1.12
112.7(f)	Oil Handling Personnel Training	1.14
112.7(g)	Security	1.13
112.7(h)	Oil Transfer Areas	1.11
112.7(i)	Brittle Fracture Evaluation Requirements.	1.15
112.7(j)	Conformance With State And Local Requirements.	1.16
112.9(b)	Facility Drainage	2.1
112. 9(c)	Bulk Storage	2.2
112.9(d)	Facility Transfer Operations	2.3
112.10	Well Drilling and Workover Operations	2.4
112.20	Determination of Substantial Harm	1.10

1.2 Record of Revision

Per 40 CFR, Part 112.3(d)(1), a registered engineer certifies the SPCC when changes in facility design, construction, operation, or maintenance materially affect the potential for spills. Non-technical changes may be certified by management. In all cases the Plan must be updated every 5 years. A copy of the latest revision of the Plan must be kept at the facility.

Table 1-4
Record of Revision

Revision Number	Revision Date	Reason for Revision	Person Entering Revision	Operating Company
0	Sept 2008	Initial Plan	URS	Santa Maria Energy
1	Dec 2010	Diatomite Facility Expansion	Ercan Candan, AECOM	Santa Maria Energy
2	April 2012	Incorporate AB 1960[1]	Ercan Candan, AECOM	Santa Maria Energy
3	April 2013	Updated Table 1.5 Spill Prevention Coordinators Updated Table 1.7 to include 2012 Average Daily Production Numbers Update active well counts in Section 1.6	Ercan Candan, AECOM	Santa Maria Energy

[1] On January 29, 2011 Assembly Bill 1960 went into effect in California that amends or adds various sections to the Public Resources Code affecting all oil and gas production facilities and the Division of Oil, Gas, and Geothermal Resources (DOGGR) operations. AB 1960 provides the DOGGR with clear statutory definition and the authority to inspect, monitor and regulate oil and gas production facilities and expands their existing ability to enforce the new regulation requirements. AB1960 also has further defined and increased the monetary penalties for non compliant facilities. AB1960 added new requirements or provided further definition to existing regulations in the following areas:

- Monitoring and inspections by DOGGR
- The DOGGR now has the authority to issue cease and desist orders
- Spill Contingency plans
- Minimum facility maintenance standards
- Production facility inspections and testing
- Storage tank and secondary containment
- Reporting procedures and record keeping
- Facility bonding

AB 1960 regulations will require production facility operators to closely evaluate and inspect their oil production facilities and equipment to ensure compliance with AB 1960.

1.3 Management Approval

Per 40 CFR 112.7(a) the SPCC must have approval of management having authority to commit resources needed to implement the Plan. The following individual attests (within company authority) that this SPCC Plan will be implemented as herein described.

Name: Kevin Yung

Signature:

Title: Production Manager

1.4 Professional Certification

The undersigned attests to the following:

- I am familiar with the requirements of 40 CFR, Part 112 and verify that this SPCC has been prepared in accordance with the requirements of this part.
- I or my agent have visited and examined the facility.
- I have determined that this SPCC has been prepared in accordance with good engineering practice, including consideration of applicable industry standards.
- I have determined that the required inspection and testing procedures have been established as described in Section 2.
- I have determined that this plan is adequate for the facility

Name: Ercan Candan

Signature:

Registration No: C 72067

(Seal)



Date: April 8, 2013 State: California

1.5 Spill Notification Requirements

The Response Coordinators (RCs) listed in Table 1-5 below shall be notified in the event of a spill. RCs are also accountable for oil spill prevention training.

Table 1-5
Spill Notification Coordinators

	Company Position	Office Phone	24-Hr Cell Phone
Primary RC:			
Dave Dueck	Field Supervisor		(805) 266-2442
Alternate RC:			
Laurie Tamura	Regulatory Affairs Manager	(805) 938-3320	(805) 431-6713
Alternate RC:			
Kevin Yung	Production Manager	(805) 938-3320	(805) 266-9344
Alternate RC:			
Ian Marquardt	Facilities Foreman	(805) 938-3320	(805) 266-6806
Operations:			
Operator Cell 1	Operator Cell		(805) 478-4352
Operator Cell 2	Operator Cell		(805) 863-7998

The RC shall be prepared with the following information when calling the agencies listed in Table 1-6 below:

a.) lease name and lease gate address;
b.) well (by number) nearest the spill location;
c.) estimated volumes of released water and oil (in bbl); and
d.) likely cause (ie. which component failed).

Note: Production fluids are typically excluded from hazardous waste management per 40 CFR 261.4. The federal petroleum exclusion is essentially repeated in the state regulation at 22 CCR 66261.4. Accordingly, release reporting to the various federal, state and local hazardous waste program offices is not required in Table 1-6.

Table 1-6
Agency Contact Information

I	Description/Contact Information
Internal Notification Procedures Any spill:	First, shut in the spill source if qualified and it is safe to do so. Second, notify the Primary RC or alternate.
Notification - Spills Creating an Emergency Condition If the answer is YES to any of the following questions, the RC will contact 911 immediately, then the listed agencies, without delaying emergency measures or spill control efforts: 1. Was anyone killed, or seriously injured? 2. Was anyone, other than employees required to evacuate? 3. Did the release cause or threaten damage to property? 4. Did the release extend into public highways? 5. Will containment, and or clean up require federal, state or county assistance? 6. Is there a danger of fire, explosion, or other outcomes that threaten human health?	o County Fire Department 911 o Emerg Mgmt Agency (Cal-EMA) 800-852-7550 o County Petroleum Office 805-934-6204 o State Division of Oil & Gas 805-937-7246 o Hwy Patrol (805) 967-1234 (if a road is affected) Fax: CAER form to Fire, DOGGR and the Petroleum Office within 24 hours. (Copy in Appendix D)
Notification - Non-Emergency Spills to Land Non-emergency spills to land greater than 1 bbl inside or outside of containment, the RC will contact, without delaying spill control efforts:	o Emerg Mgmt Agency (Cal-EMA) 800-852-7550 o County Petroleum Office (805) 934-6204 o State Division of Oil & Gas (805) 937-7246 (if the spill is over 10 bbl) Fax: CAER form to Fire, DOGGR and the Petroleum Office within 24 hours. (Copy in Appendix D)
Notification - Non-Emergency Spills to Water In the event of a non-emergency spill outside of containment reaching water, greater than 1 bbl, responsible personnel will contact:	o Emerg Mgmt Agency (Cal-EMA) (800) 852-7550 o County Petroleum Office (805) 934-6204 o State Division of Oil & Gas (805) 937-7246 o Dept. of Fish & Game (888) 334-2258 Fax: CAER form to Fire, DOGGR and the Petroleum Office within 24 hours
Notification – Large and/or Repeated Spills to Water Single spills over 24 bbl, or the second spill greater than 1 bbl within 12 months, reaching US waters, the RC will contact (in addition to the 'Spills to Water' list above):	o National Response Center (800) 424-8802 o Central Coast RWQCB (805) 549-3147

1.6 Overview of Operations

The facility is operated continuously. Average daily facility production totals for the past 5 years are listed in Table 1-7.

Table 1-7
Average Daily Production

	Oil (bbl/dy)	Water (bbl/dy)	Gas (mcf/dy)	API Gravity
2012	419	4,374	754	20
2011	404	4,522	740	20
2010	373	4,067	662	20
2009	232	3,765	290	22
2008	226	2,706	198	22

Wells

As mapped in Figure 1-2 and listed in Appendix A, active portion of the SME Careaga lease contain a total of 64 wells:

Monterey

- 68 total wells
- 40-45 active wells
- 3 suspended wells
- 20-25 idle/abandoned wells

Diatomite

- 25 total wells
- 19 active wells
- 6 idle/abandoned wells

Produced water is injected at two active water disposal (WD) wells with 3 more on standby.

Separation Facilities

Independent separation facilities are operated for wells producing from the Monterey and Diatomite zones, as shown in Figure 1-3. Well fluids are initially piped to a horizontal separator where gas is flashed off. Separator effluent is piped to wash tanks where oil and water are separated. Additional oil-water separation occurs in stock tanks.

Produced Water

All produced water is drawn from the wash tanks and stock tanks into wastewater tanks where residual oil is skimmed. The excess water is injected into disposal well(s) as mentioned above.

Associated Gas

Associated gas is collected from well casings, separators, and tanks. Gas not used to fire the steam generator is flared.

1.7 Facility Layout

Figure 1-3 provides facility layout required by 40 CFR 112.7(a)(3) . Tanks listed in Table1-8 (below) are shown. The oil and water loading area is also shown. Detailed piping and instrumentation diagrams (P&IDs) are available under a separate cover.

Table 1-8
Sized Tank Containments

Tank Designation	Tank Function	Nominal Tank Capacity (bbl)	Tank Diameter (ft)	Tank Height (ft)	Calc'd Tank Capacity (bbl)	Gross Dike Capacity (bbl)	Net Dike Capacity (bbl)	Largest Tank (bbl)	Comment
Tank 4064	Wash Tank	1,500	21.50	24.1	1,557	3,481	2,600	1,987	Contained
Tank 4171	Wastewater	2,000	29.72	16.1	1,987				
Tank 4337	Stock Tank 2	1,000	21.50	16.1	1,040				
Tank 4103	Stock Tank 1	1,000	21.50	16.1	1,040				
Tank 400	Wash Tank	1,000	15.39	30.0	994				
Tank 401	Wastewater	1,000	21.50	16.1	1,040				
Tank 402	Reject Tank	1,000	21.50	16.1	1,040				
Tank 403	Shipping Tank	1,000	21.50	16.1	1,040				

1.8 Sized Containments

Tanks and containment dikes are shown in Figure 1-3. 40 CFR 112.7(c) requires secondary containment equal to the capacity of the largest single container with sufficient freeboard for precipitation. Dikes must be sufficiently impervious to contain spilled fluids until cleanup occurs. As listed in Table 1-8, sufficient containment is provided. The listed dike capacity is effectively increased by automatic pumping.

Per 112.9(c)(3), containments are not sized for flow-thru vessels and piping.

1.9 Spill Prediction

As required at 140 CFR 112.7(b) the direction of spills is toward drainage points A and B along the lease boundaries mapped in Figure 1-2. Spill response information is provided in the Section 3.0 Contingency Plan.

As required at 40 CFR 112.20, the potential for substantial harm resulting from a catastrophic spill is assessed in Appendix B.

1.10 Spill Contingency Plan

Per 40 CFR 112.7(c)(1), alternative spill prevention and control measures are provided for oil-containing elements where sized containments are not practical. At this site, oil-containing elements like pipelines (i.e. flow lines, family lines, gathering lines, etc.) between well heads and production facilities are not within secondary containments. Accordingly, 40 CFR 112.7(d) requires a contingency plan per 40 CFR 109 for these elements.

A contingency plan outlines the chain of command during spill incidents, commits the spill control resources needed, and specifies active spill control countermeasures. The contingency plan is presented in Section 3.0.

1.11 Oil Transfer Area

Trucks are loaded with oil at the transfer area shown in Figure 1-3. Tankers are equipped with internal overfill sensors, and fail-safe devices to prevent release in the event a loading hose becomes detached. A sign detailing safety measures and the loading procedures is posted. A vapor recovery hose and grounding lines are provided.

As shown in Figure 1-3, the oil transfer area drains toward a sump which connects into the sized tank containment described above. The largest truck tanker compartment is thus contained as required at 40 CFR 112.7(h)(1).

1.12 Inspections and Records

Inspections required on the lease are listed on the operators daily inspection form presented in Appendix C. Inspection records are kept for at least 3 years.

1.13 Security

The boundary of the facility is fenced. Separation facilities and other critical site areas are lighted. In addition, the presence of workers, warning signs, and locked gates have been sufficient to discouraged trespass and tampering.

1.14 Personnel and Training

The RC is accountable for personnel training, facility inspections, spill contingency procedure, facility operation, and records maintenance. Annual training will be coordinated by Management for oil-handling personnel to review SPCC topics, ensure adequate understanding of SPCC requirements, and heighten spill-prevention awareness. A training checklist is presented in Appendix D. Table 1-9 lists spills occurring at the facility over the past 5 years. This information is used for spill-prevention training purposes.

Table 1-9
Facility Spill History

Incident Date	Incident Location	Released Oil (bbl)	Released Produced Water (bbl)	Cause
1/19/08	Production Fac'y	2.2	0	Malfunctioning tanker truck valve
8/3/07	Careaga 37-31	20		Stuffing box failure
6/19/07	Careaga 16-31	5.0	0	Stuffing box failure

1.15 Evaluation for Brittle Fracture

The 40 CFR112.7 (i) requires evaluation of tanks for brittle fracture. Industry standards (API 653) finds the risk of brittle fracture is minimal where shell thickness is less than 0.5 inches, and where contents are maintained above 60 degrees F. Because all tanks on this facility have relatively thin shells, and contents are unlikely to fall below 60 degrees, brittle fracture is not a concern.

1.16 Discussion of Conformance

Per 40 CFR112.7(a)(2), most SPCC requirements are performance based. Deviations are allowed if equivalent environmental protection is provided. Requirements listed in this paragraph (however) are mandatory, and must be implemented as prescribed:

1. Are tank secondary containments capable of containing spilled oil until cleanup occurs? Are containment volumes equal to the largest single container with additional volume for precipitation?

   Yes [X] No [ ] N/A [ ]

2. Are truck loading containments large enough to hold the largest single tanker compartment for served at the facility?

   Yes [X] No [ ] N/A [ ]

3. Is a 40CFR 109 contingency plan provided for oil-containing components not protected by secondary containment? Does the contingency plan include a written commitment of manpower and equipment sufficient to expeditiously control and remove any oil discharged?

   Yes [X] No [ ] N/A [ ]

4. Are catchments provided at all drilling and workover operations sufficient to contain discharges of fuel, crude oil, and oily drilling fluids?

   Yes [X] No [ ] N/A [ ]

40 CFR 112.7(j) requires a discussion of State and local spill prevention rules, regulations, and guidelines.

1. Section 3106 of the California Public Resources Code, requires an SPCC prepared in accordance with 40 CFR 112.
2. DOGGR regulations at 14 CCR 1722.9 (AB 1960) requires a spill prevention and contingency plan containing the elements listed in Section 2.5
3. Section 9, Chapter 25 of the County of Santa Barbara Code requires a spill prevention plan meeting 40 CFR112.

This SPCC is presented in satisfaction of any federal requirement, and applicable state and local requirements.

1.17 Disposal of Produced Sand and Clean-up Wastes

Produced sand accumulates in production vessels and containers. In addition, impacted soils can result from spills. Virtually all produced sand and impacted soils and are non-hazardous. Non-hazardous petroleum impacted soils and produced sands are currently transported to the Santa Maria City Landfill non-hazardous oil impacted soil unit. Point of Contact: Central Coast Remedial Resources, 805-346-6127.

2 Specific Procedures

40 CFR 112.9 and 112.10 list specific requirements for onshore oil production:

2.1 Oil Production Facility Drainage

40 CFR 112.9(b) requires regular inspection of facility drainage courses for evidence of leakage or spills. The following criteria are evaluated for compliance:

1. Are drains at dikes surrounding tank batteries, separation, and treating areas closed and sealed at all times except when draining uncontaminated rainwater?
   Yes [X] No [ ] N/A [ ]

2. Prior to drainage of secondary containments, does the pumper remove accumulated oil and legally return it to the production stream? Are notes of any oil removal activities logged on the daily report?
   Yes [X] No [ ] N/A [ ]

3. Does the pumper regularly inspect creeks, drainage courses, roads, ditches, oil traps, sumps, and ponds for oil as evidence of flowline leaks? Are results of these inspections logged on daily reports?
   Yes [X] No [ ] N/A [ ]

4. Does the pumper promptly remove accumulations of oil and/or affected soil when discovered? Are oil and soil removal activities logged?
   Yes [X] No [ ] N/A [ ]

2.2 Oil Production Facility Bulk Storage

40 CFR 112.9(c) specifies requirements for bulk oil storage containers. The following criteria were evaluated:

1. Has a competent person determined that tank materials and construction are compatible with materials stored and suitable to the conditions of storage?
   Yes [X] No [ ] N/A [ ]

2. Is a means of secondary containment provided for the entire capacity of a single container or the largest within any group of containers, with sufficient freeboard to contain precipitation?
   Yes [X] No [ ] N/A [ ]

3. Are well-head cellars regularly inspected for high levels of rainwater and regularly pumped?
   Yes [X] No [ ] N/A [ ]

4. Are oil containers, foundations, and supports visually inspected on a regular basis for signs of deterioration and need for maintenance?
   Yes [X] No [ ] N/A [ ]

5. Has a competent person determined that each oil container has adequate capacity, and that piping arrangements are designed to prevent overtopping in the event the pumper is delayed in making regularly scheduled rounds?
   Yes [X] No [ ] N/A [ ]
6. Are equalizing lines installed between containers so that an overfilled container can overflow to adjacent containers?
   Yes [X] No [ ] N/A [ ]
7. Are vacuum protection devices on each container adequate to prevent collapse during a pipeline run or other transfer of oil?
   Yes [X] No [ ] N/A [ ]
8. Are sensors installed to transmit alarms to the pumper in the event of high oil levels?
   Yes [X] No [ ] N/A [ ]
9. Are the return streams or exhaust lines on internal tank heating coils monitored for oil intrusion?
   Yes [ ] No [ ] N/A [X]

2.3 Oil Production Facility Transfer Operations

40 CFR 112.9(d) specifies requirements for oil transfer operations (ie. oil pipelines and oil handling facilities). The following criteria were evaluated for compliance:

1. Are above-ground valves and piping inspected for general condition at regular intervals?
   Yes [X] No [ ] N/A [ ]
2. Are flange joints, valve packing, valve bodies, pipe supports, polish rods, stuffing boxes, bleeder/gauge valves, and other such items inspected for general condition at regular intervals?
   Yes [X] No [ ] N/A [ ]
3. Is the compressor facility inspected at regular intervals for potential overfill or other upset that could cause a spill?
   Yes [X] No [ ] N/A [ ]
4. Does a regular program of flowline maintenance exist to reduce the likelihood of discharge?
   Yes [X] No [ ] N/A [ ]
5. When a section of buried oil flowline is exposed, is it wrapped or coated to protect against corrosion before backfilling?
   Yes [X] No [ ] N/A [ ]
6. Are oil flowline terminal connections capped or slip blinded and marked when taken out of service?
   Yes [X] No [ ] N/A [ ]

2.4 Well Drilling and Workover Operations

40 CFR 112.10 specifies requirements for well drilling and workover operations. The following criteria were evaluated for compliance:

1. Are mobile drilling and workover rigs positioned in a manner to prevent discharges?
   Yes [X] No [ ] N/A [ ]

2. Are basins and diversion dikes placed to intercept spilled fuel, crude oil, or oily drilling fluids?
   Yes [X] No [ ] N/A [ ]

3. Is blowout prevention equipment (BOPE) deployed for each operation as required under federal and state rules?
   Yes [X] No [ ] N/A [ ]

2.5 DOGGR Spill Prevention and Contingency Plan Requirements

Title 14 of the California Code of Regulations, Section 1722.9 (14 CCR 1772.9) requires the following elements in the spill prevention and contingency plan. The following are evaluated for compliance:

1. Is a list of the operator's 24-hour emergency contact telephone numbers provided?
   Yes [X] Where: Section 1.5

2. Can the emergency contact provide DOGGR staff information about emergency shutdown procedures, safety shutdown devices, kill switches, emergency shut-down devices, and/or master valves?
   Yes [X] Where: See Appendix E Spill Controls Chart, and P&IDs (separate cover)

3. Is a list of personal safety equipment, location, and maintenance frequency provided?

   Yes [X] Where: See Appendix F

4. Is a one-page quick-action checklist for use during initial stages of a spill provided?

   Yes [X] Where: See Appendix D

5. Is a list of local, state and federal agency notifications with telephone numbers provided?

   Yes [X] Where: See Section 1.5 and Appendix D

6. Is a list of onsite control/cleanup equipment and outside resources available?

   Yes [X] Where: See Section 3.6

7. Does the facility map show:
   a) labeled tanks, equipment, and pipelines,
   b) probable pipeline locations where exact locations are not known (see Appendix G),
   c) access roads,
   d) labeled out-of-service equipment,
   e) labeled sumps and catch basins,
   f) volumes of tanks and storage containers,
   g) listing (by tank) of types of fluid stored,
   h) designated waterways within one-quarter mile (no designated waterways as defined in AB1960 exist with a quarter mile of the facility),
   i) locations of secondary containments with access routes,
   j) topography or drainage flow direction,
   k) storm drains within one-quarter mile of the site (none)?

   Yes [X] Where: See Figure 1-3, Appendix G

8. Is a fluid flow schematic provided?

   Yes [X] Where: See Appendix E Spill Controls Chart, and P&IDs (separate cover)

9. Are listings and locations provided for all chemicals requiring a Material Safety Data Sheet (MSDS)?

   Yes [X] Where: See Careaga Business Plan (Separate Cover)

10. Are facility inspection and maintenance procedures and related recordkeeping provided?

    Yes [X] Where: See Operators Daily Inspection Form, Appendix C

11. Are maximum and typical produced fluid processing rates provided?

    Yes [X] Where: See Section 1.5

12. Are typical volumes of liquids stored at the facility provided?

    Yes [X] Where: See Section 1.5

13. Is a list of corrosion prevention or corrosion monitoring techniques used at the facility provided?

    Yes [X] Where: See Separate Flowline Integrity Management Plan

14. Is a list of equipment sensors and alarms provided?

    Yes [X] Where: See Appendix E

15. Is a description of the training needed to implement the plan provided?

    Yes [X] Where: See Training Checklist Form, Appendix D

3 Oil Spill Contingency Plan

The Contingency Plan defines procedures and tactics for responding to discharges of oil from oil-containing elements not protected by secondary containments. This plan compliments the SPCC, addressing topics listed in 40 CFR 109.

3.1 Resource at Risk (40 CFR 109.5(b)(1))

Un-named ephemeral streams and drainage structures upstream of the Barka Slough (see Figure 1-1), would first be affected by spills. Because no known drinking water intakes exist along these water courses, agricultural water supply is assumed to be the primary resource at risk.

3.2 Worst-Case Discharge (40 CFR 109.5 (c))

The probable worst case discharge would be a partial failure of an oil family line occurring outside of containment. Sudden, total family line failure is not probable. Thus the worst-case flow is inferred as 10 percent of the largest family line throughput, multiplied by 8 hours. Overland oil and water flow velocities would be consistent with stormwater flow, ranging typically from 1 to 2 feet per second. The flow direction would generally be toward Points A and B mapped in Figure 1-2.

3.3 Response Strategy (40CFR 109.5 (a))

Major spills migrating offsite are directed by the RC and the agency On Site Coordinator (OSC) as applicable. Actions for spills that remain on the lease are listed below:

1. Shut in the spill source of if qualified, and it is safe to do so,
2. Notify the Primary or Alternate RC,
3. Initiate appropriate spill control measures using on-site resources,
4. Deploy outside resources as directed by the RC,
5. Upon control of the spill (ie oil flow is stopped), pull free liquids with a vacuum truck and return to the process stream.
6. Begin manual and mechanical removal of impacted soil for disposal as specified in Section 1.17.

3.4 Distribution of Responsibility (40 CFR 109.5(a))

The Primary (or Alternate) RC listed in Table 1-5 has the authority to commit the necessary resources and manpower to respond to spills. The RC may also request public response assistance when appropriate. The RC directs response actions, and makes all agency notifications listed in Section 1.4. If the Primary or Alternate RC is not available, notification responsibility rests with the most senior SMP employee on site. If an agency OSC assumes command, the RC assists the OSC, providing resources as directed.

3.5 Communication 40 CFR 109.5 (b)(3)

The RC is responsible for communicating the response status to local, state, and federal authorities, and for communicating with media inquiries. Cell phones are provided to RCs and other personnel. RCs can be reached by cell phone 7 days a week, 24 hours a day at numbers listed in Table 1-5.

3.6 Response Resources 40 CFR 109.5(c)(1)

Onsite response resources include the response trailer equipped as listed in Appendix F. Per company practice, SMP employees are HazWoper trained. However because oil production is not subject to hazardous waste regulation, all SMP employees are considered eligible to assist with spill control and cleanup regardless of HazWoper status.

Outside resources available to the RC as necessary are listed in Table 3-1 below:

Table 3-1
Outside Response Resources

Name	Contact Information
Dave McNabb Construction	(805) 266-9854
Rick Sinor- Equipment Operator	(805) 478-1885
Rockin' CJ – Trucking, Vacuum Trucks, Bins Casey Johnson	(805) 448-8237 (805) 922-2625 (805) 922-2045

DRAWN BY		CHECKED BY		DRAWING NUMBER
	HRF			
	05/06/11	APPROVED BY		

PHOENIX LEASHOLD
CAREAGA LEASE
610 ACRES

GITTE-TEN LEASHOLD
CAREAGA LEASE
3,414 ACRES

RANCH ROAD

6.9 MILE DRAINAGE COURSE

9.8 MILE DRAINAGE COURSE

CAREAGA GATE:
7980 EAST SAN ANTONIO RD

TRANSITION FROM 'EPHEMERAL' TO 'SEASONALLY CONTINUOUS' CREEK FLOW

SCALE: 1" = 2000 FEET

0 1000 2000

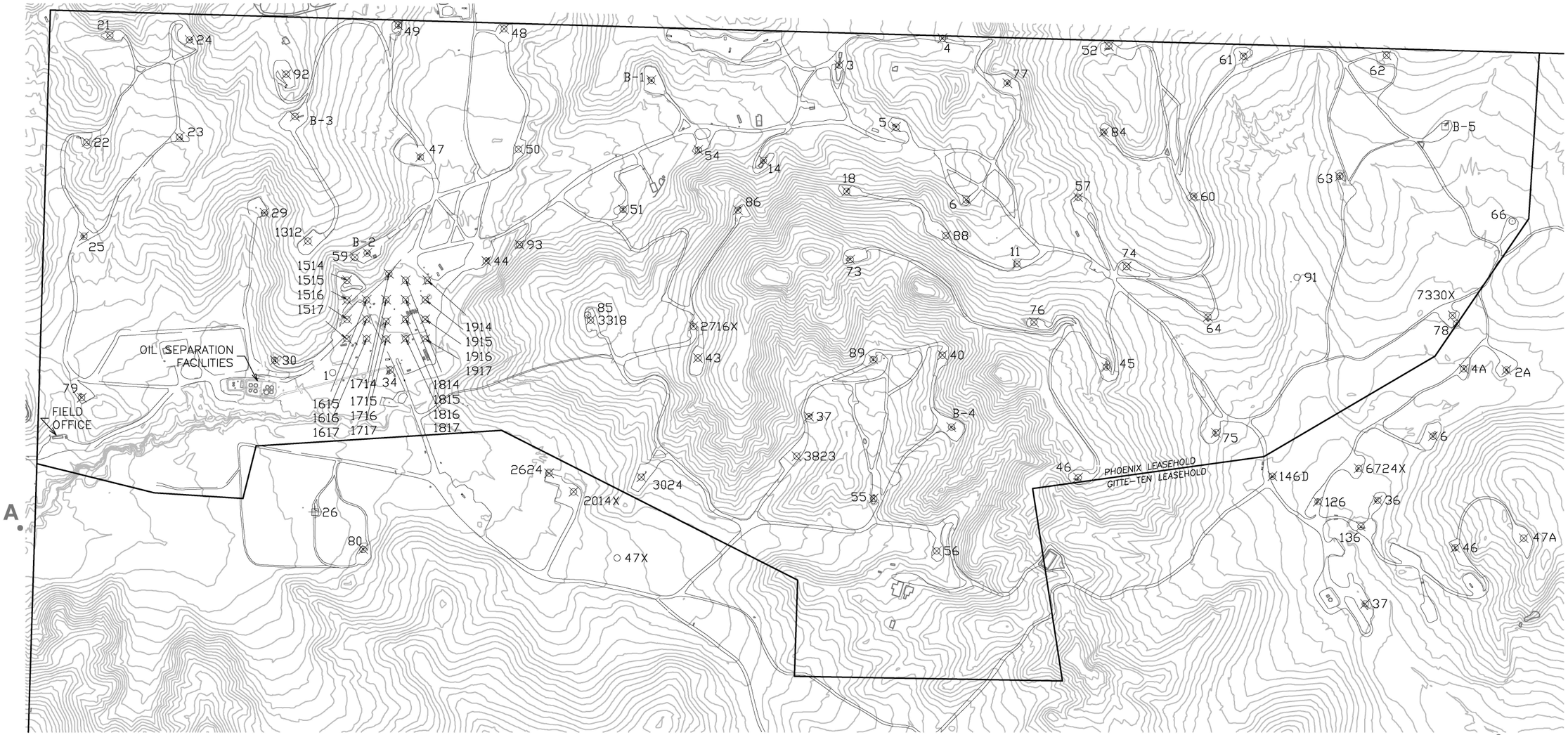
SANTA MARIA ENERGY

AECOM
SANTA MARIA, CA

FIGURE 1-1

VICINITY DRAINAGE MAP
SPILL PREVENTION CONTROL COUNTERMEASURE PLAN
CAREAGA OIL PRODUCTION FACILITY

DRAWN BY	HRF	CHECKED BY		DRAWING NUMBER
	05/06/11	APPROVED BY		



LEGEND

⊠ 3024	ACTIVE OIL WELL
○ 47X	IDLE OIL WELL
⧺ 26	ACTIVE INJECTION WELL
□ B-5	IDLE INJECTION WELL
A.	DRAINAGE CONCENTRATION POINT

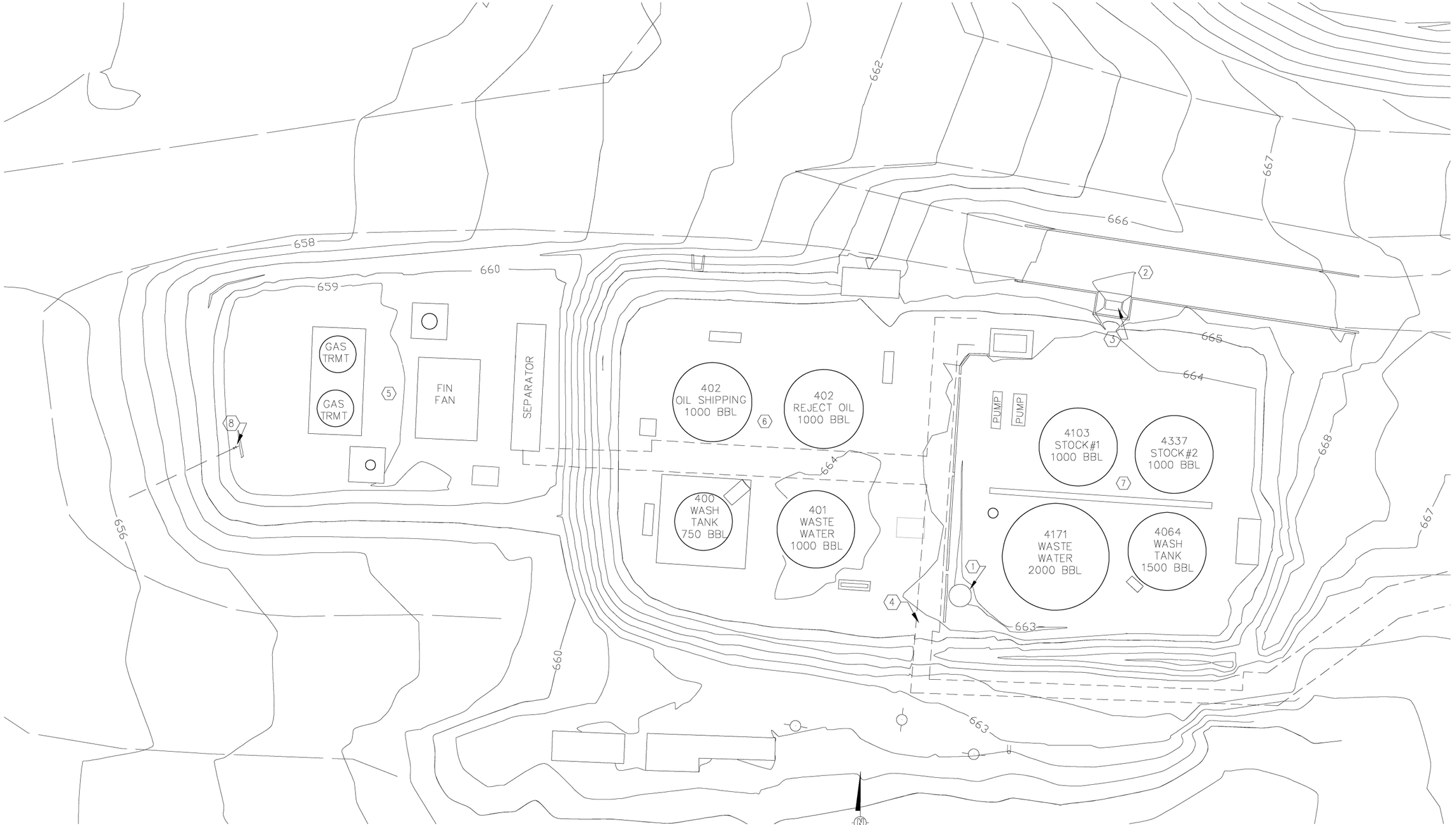
SANTA MARIA ENERGY

AECOM
SANTA MARIA, CA

FIGURE 1-2

WELLFIELD MAP
SPILL PREVENTION CONTROL COUNTERMEASURE PLAN
CAREAGA OIL PRODUCTION FACILITY

DRAWN BY	HRF	CHECKED BY		DRAWING NUMBER
	05/06/11	APPROVED BY		



DETAIL NOTES

1. Drainage pump well. Liquids pumped to wash tank.
2. Truck loading area.
3. Truck loading area sump. Liquids pumped to wash tank.
4. Pipe bank
5. Gas treatment pad
6. Monterey oil separation plant
7. Diatomite oil separation plant
8. Drain valve

SANTA MARIA ENERGY

AECOM
SANTA MARIA, CA

FIGURE 1-3

SEPARATION FACILITIES
SPILL PREVENTION CONTROL
COUNTERMEASURE PLAN
CAREAGA OIL PRODUCTION FACILITY

Appendix A

Well Listings

WELL LIST OBTAINED FROM SANTA MARIA ENERGY, LLC

SANTA MARIA ENERGY

Active Wells

Well Number	API #	Status
3	08302039	SUSPENDED
4	08302040	SUSPENDED
5	08302041	ACTIVE
6	08302042	ACTIVE
7	08302043	SUSPEND - C
11	08302047	ACTIVE
12	08302048	SUSPEND - C
14	08302050	ACTIVE
18	08302054	ACTIVE
21	08302057	ACTIVE
22	08302058	ACTIVE
23	08302059	ACTIVE
24	08302060	ACTIVE
25	08302061	ACTIVE
37	08302072	ACTIVE
40	08302075	ACTIVE
43	08302077	ACTIVE
44	08302078	ACTIVE
45	08302079	ACTIVE
46	08302080	ACTIVE
47	08302081	ACTIVE
48	08302082	ACTIVE
49	08302083	ACTIVE
50	08302084	ACTIVE
51	08302085	SUSPENDED
52	08302086	ACTIVE
54	08302088	SUSPENDED
55	08302089	ACTIVE
56	08302090	ACTIVE
64	08302098	ACTIVE
73	08302106	ACTIVE
75	08302108	ACTIVE
76	08302109	ACTIVE
77	08302110	ACTIVE
80	08302113	ACTIVE
84	08302117	ACTIVE
86	08302119	ACTIVE
89	08302121	ACTIVE
90	08302122	ACTIVE - C
B-1	08302038	ACTIVE
B-2	08320283	ACTIVE
B-3	08320291	ACTIVE
B-4	08320316	ACTIVE

Idle Wells

Well Number	API #	Status
57	08302091	IDLE
61	08302095	IDLE
62	08302096	IDLE
66	08302100	IDLE
78	08302111	IDLE
79	08302112	IDLE
85	08302118	IDLE
88	08302120	IDLE
91	08302123	IDLE
92	08302124	IDLE
93	08302125	IDLE

Injection Wells

Well Number	API #	Status
74	08302107	ACTIVE
60	08302094	IDLE
63	08302097	IDLE
B-5	08320317	ACTIVE

Wells P&A'd

Well Number	API #	Status
29	08302065	P&A
30	08302066	P&A
34	08302070	P&A

Formerly P&A'd Wells

Well Number	API #	Status
1	08322347	P&A
2	08302094	P&A
59	08302093	Active

46 Active Wells
(Includes Suspend & Confidential)

13 Idle Wells
5 P&A Wells
4 Suspended
3 Confid. Wells

64 Total Wells

4/9/2013

Well List Obtained From DOGGR

SANTA MARIA ENERGY

API Number	Well No	Oil (bbl/dy)	Water	Gas (mcf/dy)	API
8302039	3	1.2	3.7	10.6	23.7
8302040	4	1.2	3.1	1.5	23.8
8302041	5	1.5	18.8	8.0	23.8
8302042	6	1.7	20.4	4.8	23.8
8302047	11	4.5	12.5	1.9	23.8
8302054	18	1.6	3.7	5.6	23.8
8302057	21	2.9	16.6	2.7	23.8
8302058	22	5.3	39.9	6.7	23.8
8302059	23	2.5	28.8	1.6	23.4
8302060	24	3.4	29.7	2.5	23.8
8302061	25	4.8	16.6	1.2	23.7
8302065	29	0.9	4.8	2.0	23.8
8302066	30	4.2	16.3	2.5	23.7
8302070	34	9.7	86.6	6.9	23.6
8302072	37	9.9	230.8	31.4	23.8
8302075	40	4.6	54.9	8.3	23.8
8302077	43	3.1	26.7	7.9	23.8
8302078	44	4.9	26.7	4.6	23.9
8302079	45	10.8	163.4	4.9	23.8
8302080	46	1.9	48.5	4.0	23.8
8302081	47	3.2	15.9	2.9	23.8
8302082	48	2.8	7.5	1.5	23.8
8302083	49	9.4	82.6	11.9	23.8
8302084	50	0.9	7.5	4.1	23.5
8302085	51	1.9	9.8	7.9	23.8
8302086	52	7.5	148.3	3.2	23.8
8302088	54	5.7	39.9	8.6	23.8
8302089	55	1.1	5.1	3.5	23.8
8302090	56	4.7	88.7	11.2	23.8
8302093	59	3.0	0.2	0.2	15.6
8302098	64	6.2	13.6	2.8	24.8
8302106	73	6.2	222.4	9.1	23.8
8302107	74	0.5	11.7	1.0	24.1
8302108	75	3.1	54.0	11.5	23.9
8302109	76	8.6	81.8	6.3	23.8
8302110	77	1.1	7.6	7.6	23.8
8302113	80	5.0	25.0	4.2	23.8
8302117	84	6.0	39.7	6.5	23.8
8302119	86	1.4	10.4	3.6	23.9
8302121	89	3.3	71.6	8.0	23.8
8302038	B-1	3.8	71.6	3.3	23.8
8320283	B-2	1.2	2.2	2.9	23.6
8320291	B-3	1.0	5.2	4.5	23.8
8320316	B-4	2.2	41.8	2.4	23.8
8320589	16	9.3	42.6	12.0	25.0
8320677	36	3.9	35.3	15.0	25.0
8321204	37	3.5	27.5	4.9	24.9
8321379	136	0.7	3.2	2.4	24.3

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8322108	126	1.4	2.4	1.0	24.5
8322208	2A	1.1	1.3	2.4	24.4
8322210	4A	1.1	11.6	6.2	24.6
8322214	6724X	0.2	7.8	0.4	24.5
8322220	6	11.1	618.2	11.2	24.3
8322474	7330X	0.7	0.6	0.1	20.3
8322476	2716X	5.8	68.1	12.3	18.4
8322507	2014X	11.0	27.3	11.4	18.8
8322517	3024	6.5	22.9	4.5	17.3
8322554	1312	12.6	55.9	11.3	16.1
8322555	1715	14.8	11.8	3.4	16.4
8322556	1716	10.3	32.0	6.3	16.1
8322557	1814	18.3	19.9	6.2	16.1
8322558	1815	20.2	16.4	6.1	16.2
8322559	1816	11.1	53.3	7.5	16.2
8322560	1817	14.1	34.3	8.9	16.2
8322561	1915	18.0	17.9	6.4	15.7
8322562	1916	14.1	32.4	11.3	16.1
8322563	1917	5.6	23.3	3.5	16.4
8322564	2624	4.6	42.1	2.5	15.5
8322565	3318	2.5	48.8	6.9	15.1
8322566	3823	7.4	57.9	2.1	14.6
8322644	1514	8.4	1.3	0.6	16.8
8322645	1515	21.2	8.4	4.9	16.8
8322646	1516	10.9	13.3	2.0	16.8
8322647	1517	19.6	121.1	11.5	16.8
8322649	1616	3.5	10.9	0.8	16.8
8322650	1617	16.2	27.5	5.1	16.8
8322653	1914	5.0	12.3	4.7	16.9
8322654	1615	24.6	135.1	22.0	16.8
8302091	57	11.3	98.6	40.3	24.7
8302094	60	4.9	62.2	1.7	24.2
8302095	61	12.9	349.8	10.4	24.3
8302096	62	8.9	397.7	25.1	24.8
8302097	63	6.7	159.6	6.6	24.4
8302111	78	0.5	21.0	1.1	24.9
8302112	79	10.5	823.7	7.2	24.4
8302120	88	3.2	7.6	0.6	24.7
8302124	92	1.1	4.4	2.5	24.4
8302125	93	0.3	2.2	0.5	24.5
8321223	46	4.5	127.9	5.5	24.3
8321822	47A	0.4	1.6	19.0	23.7
8322196	146D	0.8	1.0	5.7	24.3

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Steam Cycle Wells

API No	Well Number		Well Type
08322476	Careaga	2716X	SC
08322507	Careaga	2014X	SC
08322517	Careaga	3024	SC
08322554	Careaga	1312	SC
08322555	Careaga	1715	SC
08322556	Careaga	1716	SC
08322557	Careaga	1814	SC
08322558	Careaga	1815	SC
08322559	Careaga	1816	SC
08322560	Careaga	1817	SC
08322561	Careaga	1915	SC
08322562	Careaga	1916	SC
08322563	Careaga	1917	SC
08322564	Careaga	2624	SC
08322565	Careaga	3318	SC
08322566	Careaga	3823	SC
08322644	Careaga	1514	SC
08322645	Careaga	1515	SC
08322646	Careaga	1516	SC
08322647	Careaga	1517	SC
08322649	Careaga	1616	SC
08322650	Careaga	1617	SC
08322653	Careaga	1914	SC
08322654	Careaga	1615	SC
08322651	Careaga	1714	SC

Active Water Disposal Wells

08320678	Careaga	26	WD
08320608	Careaga	47X	WD

Idle Water Disposal Wells

08320317	Careaga	B-5	WD
08302097	Careaga	63	WD
08321543	Careaga	31	WD

Idle Production Wells

08302100	Careaga	66	OG
08302118	Careaga	85	OG
08302123	Careaga	91	OG
08322347	Careaga	1	OG

Appendix B

Substantial Harm Determination

APPLICABILITY OF SUBSTANTIAL HARM CRITERIA
(See Attachment F-1, 40 CFR 112)

Careaga Oil and Gas Lease
7980 Graciosa Road
Santa Maria, CA 93455

Does the facility transfer oil over-water [2] to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes _____ No x

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and, within any storage area, does the facility lack secondary containment [2] that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation?

Yes _____ No x

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance [2] (as calculated using the appropriate formula in Appendix C or a comparable formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments? [3]

Yes _____ No x

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance [2] (as calculated using the appropriate formula in Appendix C or a comparable formula) such that a discharge from the facility would shut down a public drinking water intake? [2]

Yes _____ No x

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill [2] in an amount greater than or equal to 10,000 gallons within the last 5 years?

Yes _____ No x

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining information, I believe that the submitted information is true, accurate, and complete.

Signature: /s/

Name: Ercan Candan

Title: Engineer

Date: April 2012

[2] Explanations of the above-referenced terms can be found in Appendix C to this part. If a comparable formula to the ones contained in Attachment C–III is used to establish the appropriate distance to fish and wildlife and sensitive environments or public drinking water intakes, documentation of the reliability and analytical soundness of the formula must be attached to this form.

[3] For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III to DOC/NOAA's ''Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments'' (see Appendix E to this part, section 13, for availability) and the applicable ACP.

Appendix C

Facility Inspection Forms

Santa Maria Energy, LLC
SPCC
Daily Inspection Checklist

Date:

Item	Category	Yes	No	Comments (if no)
1	Are the well heads or associated piping free of leaks/stains?			
2	Are the stuffing boxes free of leaks/stains?			
3	Are the flowlines free of leaks?			
4	Of the wells with cellars, are the cellars free of fluid?			
5	List any other well location conditions that need to be addressed.			

Inspector Signature:

Prior Inspection Date:

Retain Until Date: (36 months)

Santa Maria Energy, LLC
SPCC
Weekly Inspection Checklist

Date:

Item	Category	Yes	No	Comments (if no)
	Tank Containment			
1	Are the secondary containments for all tanks and vessels free of water?			
2	Are the containments for all tanks and vessels free of debris and fire hazards?			
3	Are the drain valves for all tank and vessel containments operable and in a closed position?			
4	Are the egress pathways clear for all tank and vessels containments?			
	Leak Detection			
5	Are the areas around all tanks and vessels, concrete pads, containments, ring walls, piping or ground free of visible signs of leakage?			
	Tank Attachments and Appurtenances			
6	Are the ladders and platform structures secure with no signs of severe corrosion or damage for all tanks and vessels?			
7	Are all tank liquid level gauges readable and in good condition?			
8	Are the openings on all tanks and vessels properly sealed?			
9	Are all piping connections, piping and valves in good condition?			
	General Conditions			
10	Do the spill kits have sufficient supplies?			
11	List any other conditions that should be addressed for continued safe operation or that may affect the SPCC plan.			

Inspector Signature:

Prior Inspection Date:

Retain Until Date: (36 months)

Santa Maria Energy, LLC
SPCC
Annual Inspection Checklist

Date:

Item	Category	Yes	No	Comments (if no)
	Tank Containment			
1	Are the containment structures for all tanks and vessels in satisfactory condition?			
2	Are the drainage pipes/valves for all tank and vessel containments fit for continued service?			
	Tank Foundation and Supports			
3	Are all tank and vessel foundations and supports free of any evidence of settlements or foundation washout?			
4	Are all tank and vessel foundations and supports free of any cracking or spalling or concrete pad or ring wall?			
5	Are all tank and vessel supports in satisfactory condition?			
6	Is water able to drain away from all tanks and vessels?			
7	Are grounding straps for all tanks and vessels secured and in good condition?			
	Tank External Coating			
8	Are all tank and vessel exterior coatings free of any evidence of paint failure?			
	Tank Shell/Heads			
9	Are all tank and vessel shells/heads free of noticeable distortions, buckling, denting or bulging?			
10	Are all tank and vessel shells/heads free of evidence of corrosion or cracking?			
	Tank Manways, Piping and Equipment with Secondary Containment			
11	Are all tank and vessel manway, piping and equipment flanged connection bolts tight and fully engaged with no signs of wear or corrosion?			

	Tank Roofs			
12	Are all tank roofs free of standing water?			
13	Are all tank roofs free of evidence of external coating cracking, crazing, peeling or blistering?			
14	Are all tank roofs free of holes?			
	Vents			
15	Are all tank vents free of obstructions?			

	Insulated Tanks			
16	Is the insulation in place for all tanks and vessels?			
17	Is the insulation free of noticeable areas of moisture on all tanks and vessels?			
18	Is the insulation free of evidence of mold for all tanks and vessels?			
19	Is the insulation sufficiently protected from water intrusion on all tanks and vessels?			
	Level and Overfill Prevention Instrumentation			
20	Have the oil-water separator system liquid level sensing devices been tested to ensure proper operation on the tanks and vessels so equipped?			
21	Do the oil-water separator system liquid level sensing devices operate as required on the tanks and vessels so equipped?			
22	Are the overfill prevention devices (i.e., automatic pump shut-off in loading rack) in proper working condition?			
	Electrical Equipment			
23	Are all tank and vessel grounding lines in good condition?			
24	Is the electrical wiring for all control boxes and lights in good condition?			
	General Conditions			
25	List any other conditions that should be addressed for continued safe operation or that may affect the SPCC plan.			

Inspector Signature:	
Prior Inspection Date:	
Retain Until Date:	(60 months)

Appendix D

Spill Prevention and Response

QUICK ACTION CHECKLIST

_____ Ensure Personnel and Public Safety

_____ Eliminate Sources of Ignition

_____ Restrict Access to the Spill Site

_____ Isolate / Stop the Source of the Discharge

_____ Contain and Estimate the Volume of the Spill

_____ Call Response Coordinator (RC)

	Company Position	Office Phone	24-Hr Cell Phone
Primary RC:			
Dave Dueck	Operations Foreman		(805) 266-2442
Alternate RC:			
Laurie Tamura	Regulatory Affairs Manager	(805) 938-3320	(805) 266-9342
Alternate RC:			
Kevin Yung	Production Manager	(805) 938-3320	(805) 266-9344
Alternate RC:			
Ian Marquardt	Project Development Manager	(805) 938-3320	(805) 266-9341
Operations:			
Operator Cell 1	Operator Cell		(805) 478-4352
Operator Cell 2	Operator Cell		(805) 863-7998

_____ Call Response Contractors

_____ Notify Appropriate other Government Agencies

Spill Reporting Contacts

Spill Criteria	Description/Contact Information
Internal Notification Procedures Any spill:	First, shut in the spill source if qualified and it is safe to do so. Second, notify the Primary RC or alternate.
Notification - Spills Creating an Emergency Condition If the answer is YES to any of the following questions, the RC will contact 911 immediately, then the listed agencies, without delaying emergency measures or spill control efforts: 7. Was anyone killed, or seriously injured? 8. Was anyone, other than employees required to evacuate? 9. Did the release cause or threaten damage to property? 10. Did the release extend into public highways? 11. Will containment, and or clean up require federal, state or county assistance? 12. Is there a danger of fire, explosion, or other outcomes that threaten human health?	o County Fire Department 911 o Emerg Mgmt Agency (Cal-EMA) 800-852-7550 o County Petroleum Office 805-934-6204 o State Division of Oil & Gas 805-937-7246 o Hwy Patrol (805) 967-1234 (if a road is affected) Fax: CAER form to Fire, DOGGR and the Petroleum Office within 24 hours. (Copy in Appendix D)
Notification - Non-Emergency Spills to Land Non-emergency spills to land greater than 1 bbl inside or outside of containment, the RC will contact, without delaying spill control efforts:	o Emerg Mgmt Agency (Cal-EMA) 800-852-7550 o County Petroleum Office (805) 934-6204 o State Division of Oil & Gas (805) 937-7246 (if the spill is over 10 bbl) Fax: CAER form to Fire, DOGGR and the Petroleum Office within 24 hours. (Copy in Appendix D)
Notification - Non-Emergency Spills to Water In the event of a non-emergency spill outside of containment reaching water, greater than 1 bbl, responsible personnel will contact:	o Emerg Mgmt Agency (Cal-EMA) (800) 852-7550 o County Petroleum Office (805) 934-6204 o State Division of Oil & Gas (805) 937-7246 o Dept. of Fish & Game (888) 334-2258 Fax: CAER form to Fire, DOGGR and the Petroleum Office within 24 hours
Notification – Large and/or Repeated Spills to Water Single spills over 24 bbl, or the second spill greater than 1 bbl within 12 months, reaching US waters, the RC will contact (in addition to the 'Spills to Water' list above):	o National Response Center (800) 424-8802 o Central Coast RWQCB (805) 549-3147

Outside Response Resources

Name	Contact Information
David McNabb Construction (David McNabb)	(805) 266-9854 (805) 925-6907 Home
Rick Sinor - Equipment Operator	(805) 478-1885
Rockin' CJ – Trucking, Vacuum Trucks, Bins	(805) 448-8237 (805) 922-2625 (805) 922-2045

Appendix E

Spill Prevention Controls

Orcutt Monterey Oil Separation Facility
Tank Spill Prevention Controls
Cause and Effect Chart

Legend
C = Control
A = Alarm

P&ID Sheet	Control Loop Name	Device Function	Device Tag Number	Cause	Control or Alarm Device / Effect	LCV T-4064	LAHH T4064	LALL T4064	LALL T4064	LAH T4064	LAL T4064	LAHH T4064	LAILL T4064	LAIHH T4064	LAIL T4064	LAIH T4064	PVSV T4064	LAHH T4103	LALL T4103	PVSV T4064	LALL T4337	LAHH T4337	LAL T4337	LAH T4337	PVSV T4337	LALL T4171	LAHH T4171	LC T4171	LAL T4171	LAH T4171	PVSV T4171
					Effect	Opens LCV, draining down tank level	Alarms at high high liquid level or at XX% LCV T4064 position	Alarms at low low liquid level or at XX% LCV T4064 position	Alarms at low low liquid level or at XX% LCV T4064 position	Alarms at high liquid level or at XX% LCV T4064 position	Alarms at low liquid level or at XX% LCV T4064 position	Alarms at high high liquid level or at XX% LCV T4064 position	Alarm function at low low liquid level	Alarm function at high high liquid level	Alarm function at low liquid level	Alarm function at high liquid level	Relieves at pressure deviation	Alarms at high high liquid level	Alarms at low low liquid level, starts shipping pump	Relieves at pressure deviation	Alarms at low low liquid level, stops pumps	Alarms at high high liquid level	Alarms at low liquid level	Alarms at high liquid level	Relieves at pressure deviation	Alarms at low low liquid level, stops pumps	Alarms at high high liquid level	Controls LCV T4137	Alarms at low liquid level	Alarms at high liquid level	Relieves at pressure deviation
OM1PF3004	Wash Tank TK-4064 Level Control																														
		Level Indicating Transmitter	LIT T4064	liquid level deviation		C	A	A	A	A	A	A																			
		Level Indicating Transmitter	LTI T4064	liquid level deviation		C							A	A	A	A															
	Wash Tank TK-4064 Pressure Control																														
		Pressure Vacuum Safety Valve	PVSV T4064	over, under pressure condition													C														
OM1PF3005	Stock Tank TK-4103 Level Control																														
		Level Safety High High	LSHH T4103	high high liquid level														A													
		Level Safety Low Low	LSLL T4103	low low liquid level															A												
	Stock Tank TK-4103 Pressure Control																														
		Pressure Vacuum Safety Valve	PVSV T4103	over, under pressure condition																C											
OM1PF3006	Stock Tank TK-4337 Level Control																														
		Level Safety Low Low	LSLL T4337	low low liquid level																	A										
		Level Safety High High	LSHH T4337	high high liquid level																		A									
		Level Indicating Transmitter	LIT T4337	low low liquid level																			A	A							
	Stock Tank TK-4337 Pressure Control																														
		Pressure Vacuum Safety Valve	PVSV T4337	over, under pressure condition																					C						
OM1PF3007	Wastewater Tank TK-4171 Level Control																														
		Level Safety Low Low	LSLL T4171	low low liquid level																						A						
		Level Safety High High	LSHH T4171	high high liquid level																							A					
		Level Indicating Transmitter	LIT T4171	low low liquid level																								C	A	A		
	Wastewater TK-4171 Pressure Control																														
		Pressure Vacuum Safety Valve	PVSV T4171	over, under pressure condition																												C

Notes:

1. Only existing devices with spill prevention effects are listed
2. Not all devices in control loops are listed

Orcutt Diatomite Oil Separation Facility
Tank Spill Prevention Controls
Cause and Effect Chart

Legend
C = Control
A = Alarm

P&ID Sheet	Control Loop Name	Device Function	Device Tag Number	Cause	Control or Alarm Device / Effect	LCV V300	ZAH V300A	ZAL V300A	LAHH V300	LAH V300	LAL V300	PCV V300	PAHH V300	PAH V300	PAL V300	ZAH V300B	ZAL V300B	PSV V300	1 P401	XLAHH TK400	XLAH TK400	XLAL TK400	JSL P401	PAL P401	PVSV TK 400	LAH TK401	LAL TK401	PVSV TK 401
					Effect	Opens LCV, draining down level	Alarms at LCV V300 open position deviation	Alarms at LCV V300 closed position deviation	Alarms at high high V300 liquid level	Alarms at high V300 liquid level	Alarms at low V300 liquid level	Opens, closes controlling V300 pressure	Alarms at high high separator pressure	Alarms at high separator pressure	Alarms at high separator pressure	Alarms at PCV V300 open position deviation	Alarms at LCV V300 closed position deviation	Relieves at high pressure setpoint	PLC controlling P-401 maintaining TK-400 liquid level	Alarms at high high TK400 liquid level	Alarms at high TK400 liquid level	Alarms at low TK400 liquid level, stops P401	Alarms at P401 power loss, latches out production	Alarms at low P401 discharge pressure, stops P401	Relieves at pressure deviation	Alarms at low liquid level, starts water disposal pumps	Alarms at low liquid level, stops water disposal pumps	Relieves at pressure deviation
OD1PF3012	Separator V300 Level Control																											
		Level Safety High High sensor	LSHH V300	high high V300 liquid level		C			A	A	A																	
		Level Safety High sensor	LSH V300	high V300 liquid level																								
		Level Safety Low sensor	LSL V300	low V300 liquid level																								
		Position Transmitter	ZT V300A	LCV V300 position deviation			A	A																				
	Separator V300 Pressure Control																											
		Pressure Transmitter	PT V300	over, under pressure condition								C	A	A	A													
		Position Indicating Controller	ZIC V300B	PCV V300 position deviation												A	A											
		Pressure Safety Valve	PSV V300	pressure safety valve														C										
OD1PF3006	Wash Tank TK-400 Level Control																											
		Level Indicating Controller	LIT TK400	level deviation															C	A	A	A						
		Line Power Status Indicator	JI P401	loss of line power																			AC					
		Pressure Safety Low sensor	PSL P401	P 401 under pressure condition																				AC				
	Wash Tank TK400 Pressure Control																											
		Pressure Vacuum Safety Valve	PVSV TK400	tank pressure deviation																					C			
OD1PF3007	Wastewater Tank TK-401 Level Control																											
		Level Indicating Controller	LIC TK401	level deviation																						AC	AC	
	Wastewater Tank TK-401 Pressure Control																											
		Pressure Vacuum Safety Valve	PVSV TK401	over, under pressure condition																								C

Notes:
1. Only existing devices with spill prevention effects are listed
2. Not all devices in control loops are listed

Appendix F

Spill Response Resources

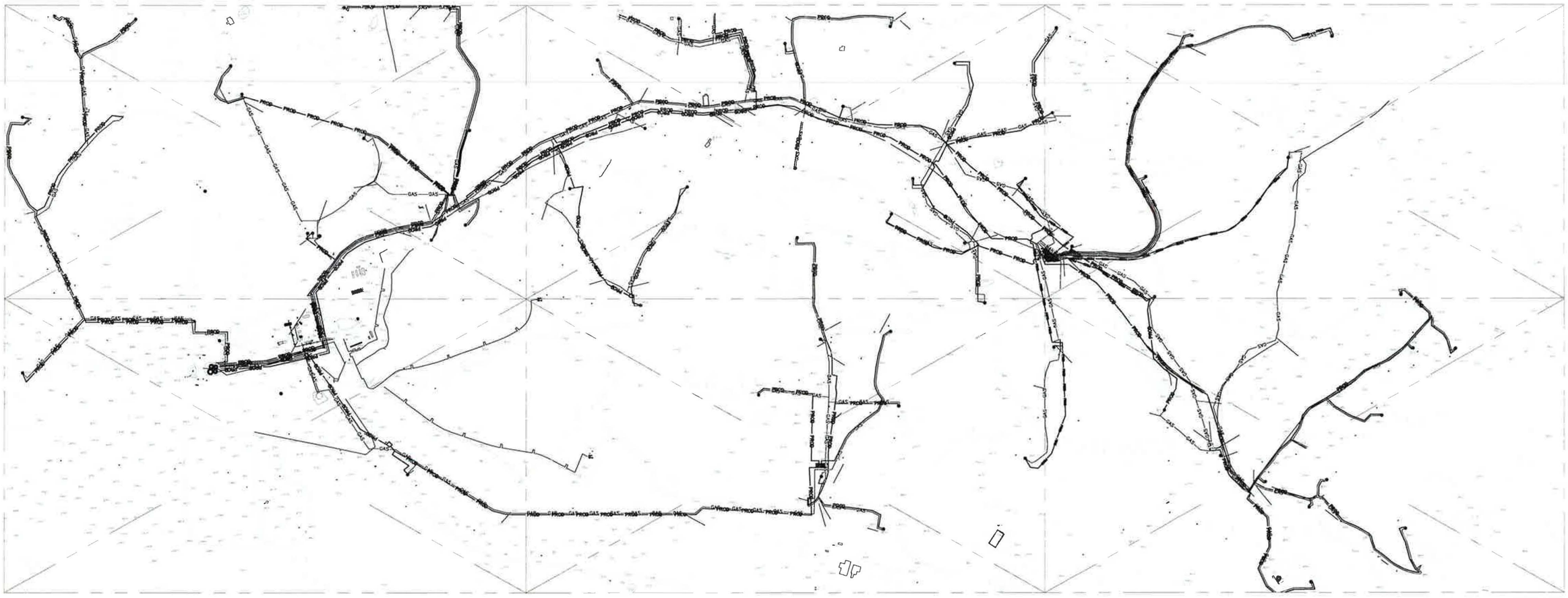
Spill Kit Supplies in the Emergency Response Trailer

The discharge response equipment inventory is verified during the monthly inspection and must be replenished as needed.

- ☐ *4" oil absorbent sock (200' lengths)* _____*XX*____ *lengths*
- ☐ *6" oil absorbent sock (200' lengths)* _____*XX*____*lengths*
- ☐ *Absorbent pads* ____ *ZZ*____ *boxes*
- ☐ *6 millimeter vizqueen (20' x 100')* _____ *rolls*
- ☐ *¼" x 1200' poly rope* ____ ___ *rolls*
- ☐ *Tyvek Coveralls* ____ +___ *suits*
- ☐ *Rubber Boots* _____ __ *pairs*
- ☐ *Rubber Pull-On Overboots* _____ ____*pairs*
- ☐ *Rubber Gloves* _____*3*_____*boxes*
- ☐ *Industrial Gloves* _____*3*_____*boxes*
- ☐ *Neoprene Gloves* _____*3*_____*boxes*
- ☐ *Hip Wadders* _____*4*_____*pairs*
- ☐ *Safety Glasses* _____*20*____
- ☐ *Shovels* _____*6*____
- ☐ *Pitch Forks* _____*2*_____
- ☐ *Rakes* _____*3*____
- ☐ *Push Broom* ____ *1*____
- ☐ *5' x 7' Tarp* _____*3*____
- ☐ *9' x 12' Tarp* _____*1*____
- ☐ *Caution Tape* _____*4*____ *rolls*
- ☐ *Emergency Tape* _____*4*____ *rolls*
- ☐ *Large Containment* _____*2*____
- ☐ *Hudson Sprayers* ____ *3*___ *2 large, 1 small*
- ☐ *Brushes* ____ *2*___
- ☐ *Trash Bags* ____ *2*___ *boxes*
- ☐ *Simple Green* ____ *1*___ *gallon*
- ☐ *Degreaser* _____ *gallon*
- ☐ *Hand Cleaner* _____ *bottles*
- ☐ *First Aid Kits* ____*2*___ *1 larger, 1 small*
- ☐ *Water Bottles* ____*3*___ *5 gallon bottles*
- ☐ *Utility Pans* ____ *4*___
- ☐ *Eye Wash Stations* ____*1*___
- ☐ *Traffic Cones* ____ *5*___
- ☐ *Rags* _____ *cases*

Appendix G

Pipeline Maps



LEGEND:

- PRODUCTION LINE
- GAS LINE
- MONTEREY WELL PRODUCTION
- ABANDONED WELL
- INJECTION WELL
- BALL VALVE
- GATE VALVE
- (CP) COMPRESSOR
- ROAD (DIRT)
- FENCING
- REDUCER
- GATE VALVE
- BALL VALVE

300' 0' 300' 600' 900'
SCALE: 1" = 300'-0"

NUMBER	SHT	REFERENCE DRAWINGS

ADAIR PROFESSIONAL ENGINEERING • DESIGN • CONSTRUCTION
PISMO BEACH, CA 93449
(805) 779-7800

DATE	DRAWN BY	CHECKED BY	ENGINEER	SCALE
09/07/11	C.LONERO	–	–	1"=300'-0"
APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
–	1:1	11012	110120M1PN1001.DWG	

REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
A	09/07/11	ISSUE FOR STATUS REVIEW	CGL	–	–	–
B	09/21/11	PROGRESS UPDATE FOR CLIENT	–	–	–	–
C	12/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

SANTA MARIA ENERGY

SANTA MARIA ENERGY
SANTA MARIA, CA

ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING KEY PLAN

DRAWING NO. OM1PN100* REV. D

DRAWING LIMITS

DRAWING LIMITS

SEE DWG OM1SP1003

Well#21-36
Elev: 823FT
Press: 20PSIG

Well#24-36
Elev: 845FT
Press: 0PSIG

2"CS(348FT)

RD. XING

2"CS(413FT)

RD. XING

ELEV: 800FT

2"CS(538FT)

Well#22-36
Elev: 776FT
Press: 19PSIG

Well#23-36
Elev: 775FT
Press: 20PSIG

RD. XING

2"CS(285FT)

ELEV: 750FT

2"CS(560FT)

2"CS(791FT)

Well#28-36
Elev: 717FT
Press:

2"CS(65FT)

RD. XING

ELEV: 720FT

2"CS(690FT)

Well#29-31
Elev: 729FT
Press: 4PSIG

Well#92-31
Elev: 898FT
Press: 10PSIG

2"CS(376FT)

Well#83-31
Elev: 860FT
Press: 16PSIG

ELEV: 850FT

RD. XING

2"CS(941FT)

Well#49-31
Elev: 795FT
Press: 10PSIG

2"CS(750FT)

RD. XING

Well#45-31
Elev: 745FT
Press: 12PSIG

ELEV: 745FT

2"CS(58FT)

2"CS(775FT)

ELEV: 720FT

Well#50-31
Elev: 726FT
Press: 25PSIG

2"CS(412FT)

Well#47-31
Elev: 735FT
Press: 20PSIG

2"CS(344FT)

ELEV: 720FT

RD. XING

3"CS(512FT)

2"CS(1186FT)

3"CS(708FT)

ELEV: 695

2"CS(427FT)

RD. XING

2"CS(390FT)

2"CS(152FT)

ELEV: 750FT

RD. XING

Well#30304
Elev: 748FT
Press: 19PSIG

Well#82-31
Elev: 748FT
Press: 13PSIG

2"CS(47FT)

2"CS(200FT)

RD. XING

Well#93-31
Elev: 720FT
Press: 12PSIG

Well#44-31
Elev: 695FT
Press: 10PSIG

DETAIL 1
GAS VALVE LOCATION OM1PN1008

3014X

1814

1715

1815

1915

4" CS(1437FT)

SCALE: 1"=100'-0"

100' 0' 100' 200' 300'

SEE DWG OM1SP1007

NUMBER	SHT	REFERENCE DRAWINGS

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DATE	DRAWN BY	CHECKED BY	ENGINEER	SCALE
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APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
–	1:1	11012	11012OM1PN1001.DWG	

REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
A	09/07/11	ISSUE FOR STATUS REVIEW	CGL	–	–	–
B	09/21/11	PROGRESS UPDATE FOR CLIENT	–	–	–	–
C	12/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN AREA 'A'

DRAWING NO. OM1PN1002 REV. D

DRAWING LIMITS

SEE DRAWING OM1SP1002

SEE DWG. OM1SP1004

SEE DWG. OM1SP1006

Well#12-31
Elev: 840FT
Press:

Well#90-31
Elev: 955FT
Press: 18PSIG

Well#7-31
Elev: 860PSIG

RD. XING

2"CS(128FT)

2"CS(175FT)

2"CS(1191FT)

ELEV: 830FT

Well#81-31
Elev: 770FT
Press: 19PSIG

2"CS(353FT)

RD. XING

3"CS(605FT)

2"CS(183FT)

ELEV: 800FT

2"CS(387FT)

ELEV: 765FT

2"CS(395FT)

3"CS(434FT)

RD. XING

Well#54-31
Elev: 770FT
Press: 19PSIG

ELEV: 795FT

RD. XING

2"CS(54FT)

RD. XING

RD. XING

ELEV: 735FT

Well#14-31

2"CS(394FT)

Well#18-31
Elev: 910FT
Press: 24PSIG

2"CS(243FT)

RD. XING

ELEV: 740FT

Well#51-31
Press: 28PSIG

2"CS(28FT)

RD. XING

Well#36-31
Elev: 940FT
Press: 15PSIG

2"CS(761FT)

RD. XING

RD. XING

85-31
ELEV: 902FT

ELEV: 905FT

2"CS(149FT)

RD. XING

2"CS(805FT)

2.5"CS(50FT)

ELEV: 870

RD. XING

Well#4-31
Elev: 870FT
Press: 19PSIG

Well#3-31
Elev: 830FT
Press: CPSIG

ELEV: 820FT

2"CS(115FT)

2"CS(327FT)

Well#5-31
Elev: 825FT
Press: 18PSIG

2"CS(127FT)

ELEV: 820FT

3"CS(308FT)

3"x2"

2"CS(595FT)

Well#77-31
Elev: 913FT
Press: 10PSIG

2"CS(702FT)

RD. XING

3"CS(677FT)

ELEV: 875FT

RD. XING

DETAIL
GAS VALVE LOCATION
2
OM1PN1009

Well#57-31
Elev: 950FT
Press: 22PSIG

2"CS(326FT)

Well#6-31
Elev: 880FT
Press: 20PSIG

2"CS(1065FT)

2"CS(120FT)

ELEV: 850FT

2"CS(597FT)

Well#88-31
Elev: 940FT
Press: 28PSIG

2"CS(485FT)

2"CS(39FT)

ELEV: 940FT

RD. XING

RD. XING

Well#11-31
Elev: 920FT
Press: 26PSIG

2"CS(653FT)

ELEV: 920FT

2"CS(425FT)

Well#73-31
Elev:
1053FT
Press: 25PSIG

SCALE: 1"=100'-0"

100' 0' 100' 200' 300'

NUMBER	SHT	REFERENCE DRAWINGS

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B	09/21/11	PROGRESS UPDATE FOR CLIENT	–	–	–	–
C	12/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN AREA 'B'

DRAWING NO. OM1PN1003 REV. D

DRAWING LIMITS

Well#52-31
Elev 1070FT
Press: 26PSIG

2"CS(125FT)

Well#61-32
Elev. 982FT
Press: 16PSIG

RD. XING

ELEV: 980FT

LOW SPOT
ELEV. 945FT

3"CS(1000FT)

Well#63-32
Elev. 972FT
Press: 38PSIG

CS(35FT)

PIPE IS GOING
UPHILL FROM 980 FT
TO 1005 FT

4"CS(1400FT)

Well#84-32
Elev. 1026FT
Press: 21PSIG

2"CS(52FT)

ELEV. 1010FT

Well#6.724x
Elev. 936FT
Press: 38PSIG

2"CS(700FT)

RD. XING

2"CS(106FT)

Well#53-32
Elev. 940FT
Press: 39PSIG

ELEV. 935FT

3"X2"

Well#60-32
Elev. 1000FT
Press: 25PSIG

ELEV. 1005FT

DETAIL 2 OM1PN1009
GAS VALVE LOCATION
OM1SP1009

Well#83-32
Elev. 970FT
Press: 27PSIG

2"CS(35FT)

2"CS(242FT)

2"CS(812FT)

RD. XING

RD. XING

Well#64-32
Elev. 948FT
Press: 28PSIG

Well#78-32
Elev. 862FT

SCALE: 1"=100'-0"
100' 0' 100' 200' 300'

SEE DWG. OM1SP1003

SEE DWG. OM1SP1005

DRAWING LIMITS

NUMBER	SHT	REFERENCE DRAWINGS

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DATE	DRAWN BY	CHECKED BY	ENGINEER	SCALE
09/07/11	C.LONERO	–	–	1"=100'-0"
APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
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REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
A	09/07/11	ISSUE FOR STATUS REVIEW	CGL	–	–	–
B	09/21/11	PROGRESS UPDATE FOR CLIENT	–	–	–	–
C	12/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN AREA 'C'

DRAWING NO. OM1PN1004 REV. D

SEE DWG. OM1SP1004

SEE DWG. OM1SP1006

DRAWING LIMITS

2"CS(650FT)

2"CS(33FT)

2"CS(100FT)

RD. XING

3"CS(2360FT)

Well#75-32
Elev: 890FT
Press: 46PSIG

RD. XING

2"CS(37FT)

2"CS(393FT)

COMPRESSOR
SITE
ELEV: 850FT

CP

2"CS(119FT)

2"CS(287FT)

RD. XING

Well#146D-32
Elev:
850FT
Press:

2"CS(55FT)

2"CS(56FT)

2"CS(45FT)

Well#126-32
Elev: 835FT
Press: 9PSIG

RD. XING

2"CS(405FT)

ELEV: 835FT

2"CS(964FT)

DETAIL
GAS VALVE LOCATION
3
OM1SPS1010

Press: 7PSIG

2"CS(321FT)

ELEV 876FT

RD. XING

2"CS(276FT)

2"CS(208FT)

ELEV 870FT

2"CS(51FT)

Well#2A-32
Elev: 870FT
Press: 2PSIG

Well#4A-32
Elev: 875FT
Press: 36PSIG

2"CS(617FT)

ELEV: 850FT

RD. XING

Well#6-33
Elev: 863FT
Press: 320PSIG

2"CS(331FT)

2"CS(400FT)

ELEV: 840FT

Well#6724X-31
Elev: 840FT

2"CS(310FT)

2"CS(1518FT)

Well#136-32
Elev: 835FT
Press: 20PSIG

2"CS(142FT)

ELEV: 832FT

2"CS(1134FT)

ELEV: 830FT

Well#36-32
Elev: 830FT
Press: 2PSIG

2"CS(53FT)

Well#47A-32
Elev: 978FT

Well#46-32
Elev: 908FT
Press: 5PSIG

2"CS(271FT)

Well#7330X-32
Elev: 888FT
Press:

2"CS(882FT)

2"CS(30FT)

Well#37-32
Elev: 823FT
Press: 2PSIG

2"CS(34FT)

SCALE: 1"=100'-0"

100' 0' 100' 200' 300'

DRAWING LIMITS

NUMBER	SHT	REFERENCE DRAWINGS

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APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
–	1:1	11012	110120M1PN1001.DWG	

REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
A	09/07/11	ISSUE FOR STATUS REVIEW	CGL	–	–	–
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C	12/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN AREA "D"

DRAWING NO. OM1PN1005

REV. D

SEE DWG OM1SP1003

SEE DWG OM1SP1007

SEE DWG OM1SP1005

2716X

Well#43-31
Elev: 920FT
Press: 22PSIG

Well#76-31
Elev: 1035FT
Press: 22PSIG

RD. XING

Well#89-31
Elev: 893FT
BROKEN

2"CS(37FT)

RD. XING

2"CS(41FT)

Well#40-31
Elev: 935FT
Press: 22PSIG

2"CS(1730FT)

Well#37-31
Elev: 830FT
Press: 30PSIG

ELEV: 860FT

2"CS(442FT)

RD. XING

2"CS(31FT)

RD. XING

2"CS(473FT)

Well#84-31
Elev: 910FT
Press: 30PSIG

ELEV. 850FT

RD. XING

2"CS(596FT)

x"CS(908FT)

2"CS(1253FT)

Well#46-31
Elev: 1052FT
Press: 30PSIG

2"CS(43FT)

ELEV. 830FT

Well#55-31
Elev: 830FT
Press: 27PSIG

ELEV. 820FT

2"CS(160FT)

RD. XING

2"CS(2638

RD. XING

RD. XING

2"CS(495FT)

2"CS(38FT)

Well#56-31
Elev: 857FT
Press: 21PSIG

SCALE: 1"=100'-0"

100' 0' 100' 200' 300'

DRAWING LIMITS

NUMBER	SHT	REFERENCE DRAWINGS

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DATE	DRAWN BY	CHECKED BY	ENGINEER	SCALE
09/07/11	C.LONERO	–	–	1"=100'-0"
APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
–	1:1	11012	110120M1PN1001.DWG	

REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
A	09/07/11	ISSUE FOR STATUS REVIEW	CGL	–	–	–
B	09/21/11	PROGRESS UPDATE FOR CLIENT	–	–	–	–
C	12/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN AREA 'E'

DRAWING NO. OM1PN1006 REV. D

SEE DWG. OM1SP1002

DRAWING LIMITS

RD. XING

ELEV 670FT

2"CS(663FT)

2"CS(536FT)

Well#79-36
Elev: 680FT
Press: 20PSIG

RD. XING

RD. XING

ELEV 660FT

2"CS(500FT)

ELEV 660FT

DETAIL
GAS VALVE LOCATION
1
OM1PN1008

4"CS(525FT)

ELEV 660FT

4"CS(238FT)

X"CS(244FT)

GE SCRUBBER
ELEV 650FT

4"CS(230FT)

Well#34-31
Elev: 690FT
Press

2" CS(59FT)

ELEV 675FT

X" CS(523FT)

4"CS(536FT)

RD. XING

ELEV 700FT

Well#16-31
Elev: 693FT
Press: 12PSIG

2"CS(100FT)

RD. XING

Well#26-31
Elev: 665FT

Well#30-31
Elev: 685FT

1716 1816 1916 1817

SEE DWG. OM1SP1006

SCALE: 1"=100'-0"

100' 0' 100' 200' 300'

DRAWING LIMITS

NUMBER	SHT	REFERENCE DRAWINGS

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09/07/11	C.LONERO	–	–	1"=100'-0"
APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
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D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN AREA 'F'

DRAWING NO. OM1PN1007

REV. D

SEE DWG. OM1SP1002

SEE DWG. OM1SP1002

SEE DWG. OM1SP1002

2"CS(1180

512FT)

ELEV: 695

4"X3"

RD. XING

2"CS(390FT)

DETAIL 1
GAS VALVE LOCATION OM1SPS1002

SEE DWG. OM1SP1002

20' 10' 0' 20' 40' 60'
SCALE: 1"=20'-0"

NUMBER	SHT	REFERENCE DRAWINGS

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DATE	DRAWN BY	CHECKED BY	ENGINEER	SCALE
09/07/11	C.LONERO	–	–	1":100'-0"
APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
–	1:1	11012	110120M1PN1001.DWG	

REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
A	09/07/11	ISSUE FOR STATUS REVIEW	CGL	–	–	–
B	09/21/11	PROGRESS UPDATE FOR CLIENT	–	–	–	–
C	11/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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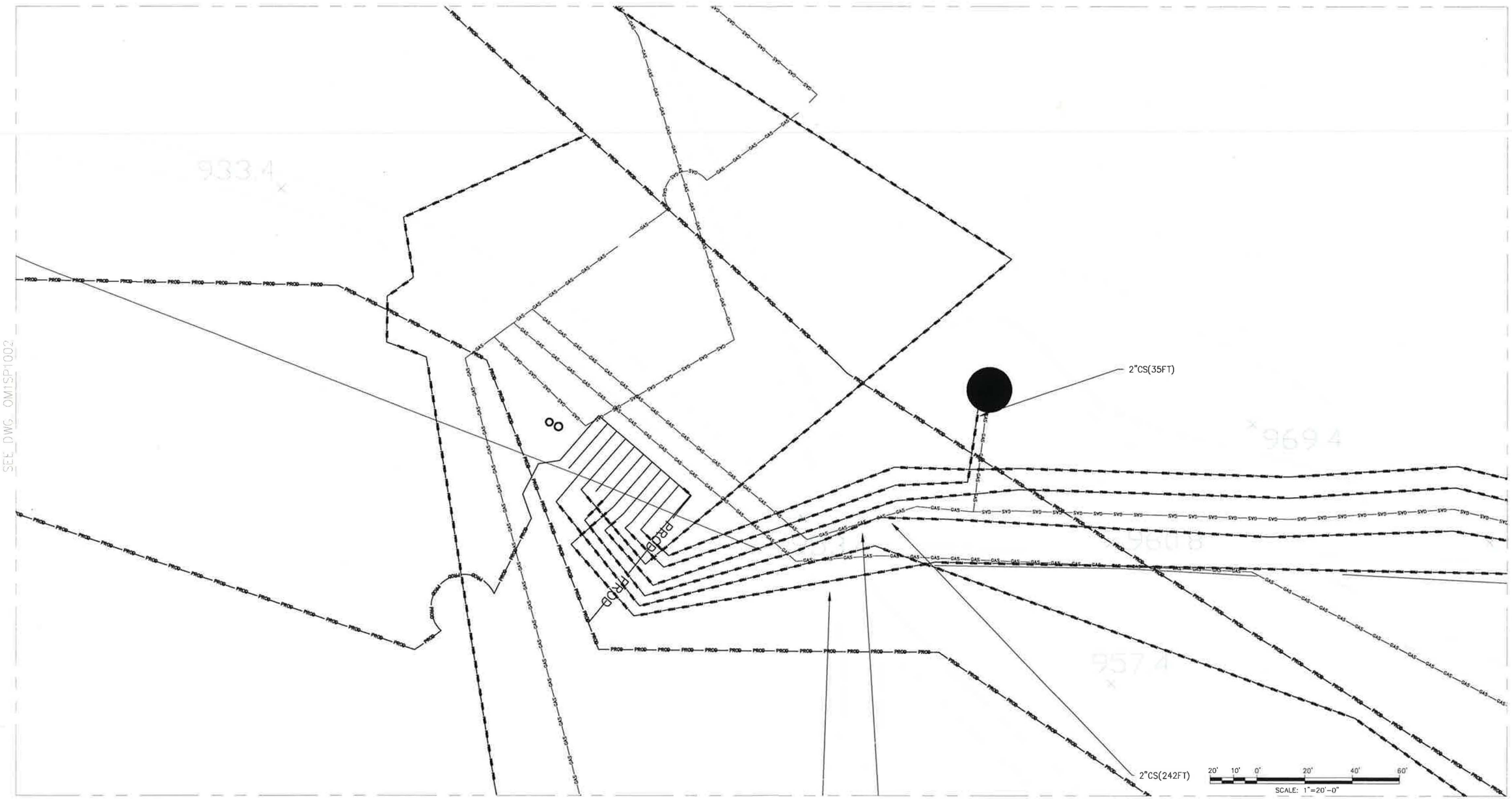
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ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN DETAIL 1

DRAWING NO. OM1PN1008 REV. D

SEE DWG. OM1SP1002 & OM1SP1003

SEE DWG. OM1SP1002

SEE DWG. OM1SP1004



DETAIL 2
GAS VALVE LOCATION OM1SPS1005

SEE DWG. OM1SP1006 & OM1SP1007

NUMBER	SHT	REFERENCE DRAWINGS

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DATE	DRAWN BY	CHECKED BY	ENGINEER	SCALE
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APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
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REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
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C	12/08/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–
D	12/26/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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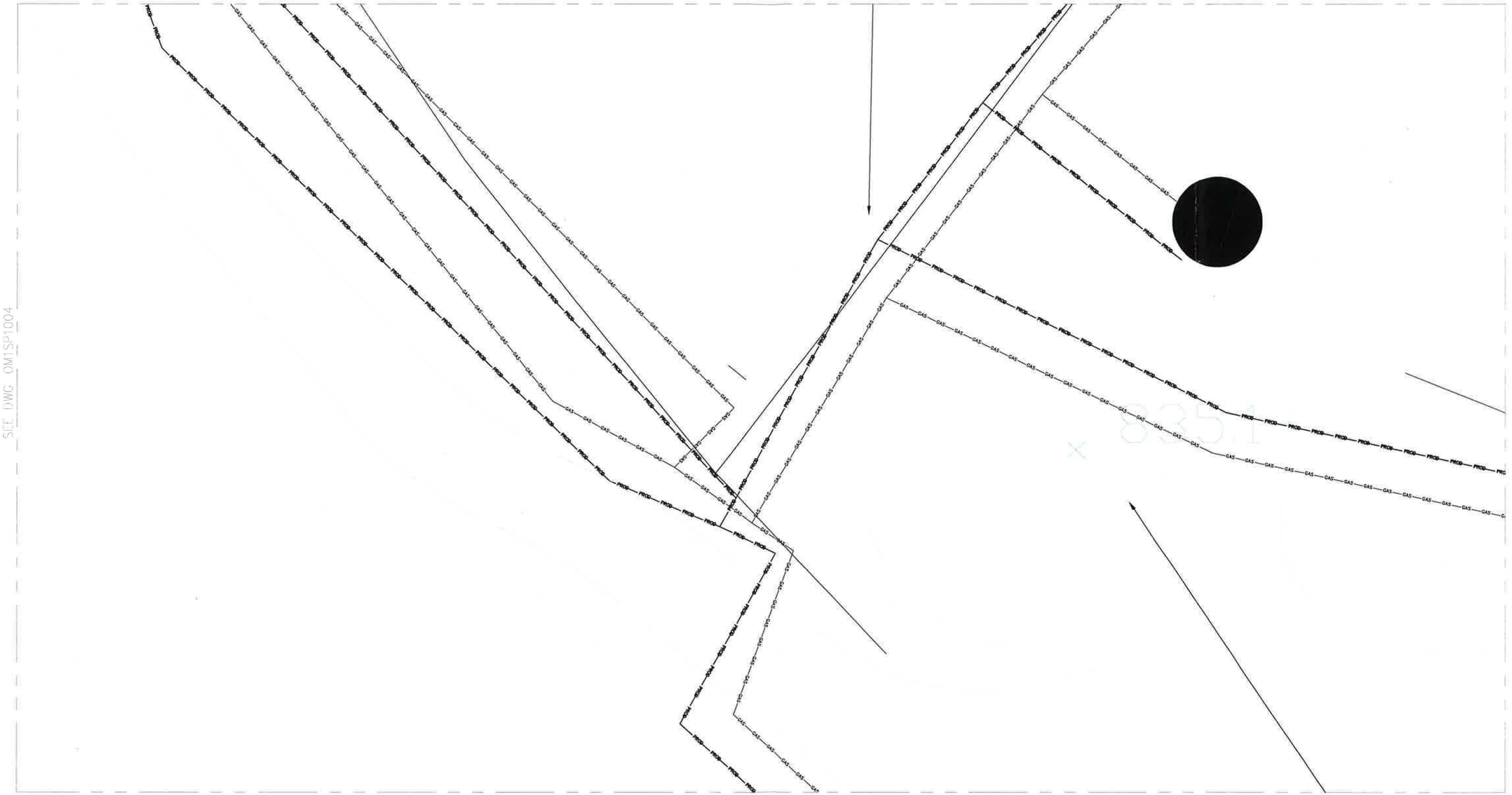
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SANTA MARIA, CA
ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN DETAIL 2

DRAWING NO. OM1SP1009 REV. D

SEE DWG. OM1SP1004

SEE DWG. OM1SP1004

SEE DWG. OM1SP1004



DETAIL 3
GAS VALVE LOCATION OM1SPS1005

SEE DWG. OM1SP1004

10' 0' 10' 20' 30'
SCALE: 1"=10'-0"

NUMBER	SHT	REFERENCE DRAWINGS

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DATE	DRAWN BY	CHECKED BY	ENGINEER	SCALE
09/07/11	C.LONERO	–	–	1":100'-0"
APPROVAL	PLOT: SCALE	PROJECT NO.	DRAWING FILE NAME	
–	1:1	11012	110120M1PN1001.DWG	

REV.	DATE	DESCRIPTION	DRAFT	Q.C.	ENGR.	APPVD.
A	09/07/11	ISSUE FOR STATUS REVIEW	CGL	–	–	–
B	09/21/11	PROGRESS UPDATE FOR CLIENT	–	–	–	–
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D	12/28/11	AS-BUILT UPDATES PER SMP BY CANNON	PWL	–	–	–

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SANTA MARIA ENERGY
ORCUTT FIELD, CAREAGA SITE
GAS FLOW LINE STUDY
PIPING PLAN DETAIL 3

DRAWING NO. OM1SP1010 REV. D

Appendix L

2015 Letter to Regional Water Quality Control Board Regarding Sumps

SANTA MARIA ENERGY

December 15, 2015

VIA ELECTRONIC MAIL

Mr. Michael J. Thomas
Assistant Executive Officer
California Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

RE: Water Code Directive pursuant to Section 13267 ("Order")
Santa Maria Energy, LLC, Careaga Lease, Orcutt Oil Field

Dear Mr. Thomas:

This letter and the attached information will serve as a supplemental response to the Order sent to Santa Maria Energy, LLC ("SME") on October 15, 2015 pursuant to Section 13267.

SME submitted its initial response on November 9, 2015 confirming that, for the time period it has operator of the Careaga Lease in the Orcutt oil field (2003-present), it has not used sumps for the purpose of collecting and/or storing fluids of solid waste material in connection with its oil/gas drilling or production operations.

In accordance with the provisions of the Order, SME has researched the information within its possession to determine the possible location of any historic sumps or fluid discharges within the Careaga Lease at the Orcutt Oil field and can provide the following information.

Introduction

The RWQCB letter focuses on the potential impact of discharge to land by sumps and the potential impact to water quality on surface or groundwater that serves as a source of drinking water. For the record, this lease is located over five miles south of the community of Orcutt in the Santa Maria Valley Groundwater Basin and five miles north of the community of Los Alamos located in the San Antonio Groundwater Basin and any water wells serving these communities.

History

Oil operations within the Careaga Lease in the Orcutt Oil Field started in approximately 1902. Historical records indicate that Shell Oil Company operated this field from the early 1900's to the early 1990's.

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p: 805.938.3320 f: 805.938.3340 info@santamariaenergy.com www.santamariaenergy.com

In reviewing field records, it appears there may be approximately 22 historic sump features that were related to individual oil wells drilled by Shell Oil Company between 1902 and 1930.

A sump was created near the tank battery after the mid-1930's that served as the place to dispose of drilling muds and produced materials. This tank battery sump appears in aerial photographs from the 1930's to the early 1970's. Neither this sump or the 22 historic sump features show up in any aerial photos after 1974.

Responses to Requested Information

As requested in the letter, below are the responses to the nine items listed in the RWQCB October 15, 2015 letter:

1) The locations of all current and historic sumps in your area of operations used in the discharge of fluids to land. Provide all information regarding liner material used with each sump, if any. Provide the status of all sumps, including active, inactive, closed with cleanup, closed without cleanup, or unknown. For sumps closed with cleanup, describe the cleanup activities and cleanup level.

As stated above, SME has never used sumps for the purpose of collecting and/or storing fluids of solid waste material in connection with its oil/gas drilling or production operations at the Lease in the Orcutt Oil Field.

However, the approximately 1100 acre Careaga lease in the Orcutt Oil Field has had oil operations on it since the early 1900's. Shell Oil Company operated the field from 1900's to 1990's.

From the 1900's to the 1930's, a common drilling technique in the oil industry was to establish a sump near an oil well to hold drilling muds and the first liquids to be produced by the well. As soon as the well proved to be successful, it was connected to storage tanks or pipelines to capture the produced water and oil. At that point, the drilling material in the sump was either hauled off or left in place to evaporate.

Based on our research, there appears to be 22 historic sumps on the Careaga Lease in the Orcutt Oil Field that were related to individual oil wells drilled by Shell Oil Company between 1902 and 1930 (Appendix B). A map showing the location of the wells adjacent to these historic sumps is attached (Appendix A). These historic sump features were found by field surveys. All sumps shown are inactive. It is unknown whether they were closed with or without cleanup.

In addition to the above, in the mid-1930's it appears that a central sump was created near the tank battery. It appears this sump was discontinued in the mid-1970's based on review of aerial photographs. It is unknown whether it was closed with or without cleanup.

There are no existing active sumps on the Careaga Lease. SME has no information on how the history sumps were created, if they were lined, how large they were, or how they were abandoned.

2) The procedures you use to close or abandon sumps, or otherwise cease their operation.

There are no active sumps on the Careaga Lease in Orcutt Oil Field. It is unknown whether any historic sumps on the site were closed with or without cleanup.

3) The estimated total annual amount of fluid previously discharged into each historic and active sump, and estimated annual amount of fluid to be discharged to active sumps going forward.

A) There are no records of the historic sumps or the material that may have been discharged to the sumps.
B) There are no active sumps on the property. SME does not use sumps for either its drilling or production operations.

4) The physical and chemical composition of any fluids discharged into each sump.

Unknown.

5) The physical and chemical composition of any solidified waste in each sump.

Unknown.

6) The location of any domestic, municipal, and commercial water wells within a half mile radius of any current or historic sump.

The Careaga Lease is within the Orcutt Oil field. This lease is over five miles south of the community of Orcutt. Please see the attached aerial photograph (Appendix C).

Except for one private water well drilled by SME in 2011, at the requirement of Santa Barbara County, to service the SME Careaga Lease field office ("Careaga Lease Water Well No. 2"), there are no water wells within a mile of the Careaga Lease.

Careaga Lease Water Well No. 2 is 300 feet deep and draws water from the bottom most portion of the Careaga Fm. The well is not considered to be a financially practical solution due to the low quantity and quality of water it produces. Reverse osmosis and other treatment processes are used to improve the quality. Careaga Lease Water Well No. 1 was an attempt made prior to drilling this well, but was unsuccessful due to a lack of sufficient water yield and thus abandoned – highlighting the fact that yield is limited or does not exist in this extreme northern edge of the San Antonio Basin.

The next-closest water well to the Careaga Lease is an agricultural water well. This well is approximately 7,500 feet (1.4 miles) from the lease boundary. This well is one of 13 wells identified by field reconnaissance as agricultural wells, all of which are more than 1.4 miles from the lease. Additionally, there are three presumed private domestic water wells were identified at residences on Graciosa Road, adjacent to State Highway 1. The domestic well locations are more than 2 miles to the west of the lease boundary.

The large parcel of land to the immediate north and northwest of the SME site is the continuation of the Orcutt Oil Field which is operated by Pacific Coast Energy Company (PCEC). PCEC confirmed no water wells exist on its property.

7) Historic water quality data available for any wells within a half mile radius of any current or historic sump. Appendix D lists the constituents we are most interested in for historical data (as well as current data).

Careaga Lease Water Well No. 2 is the only water well located on the Careaga Lease in the Orcutt Oil Field. Refer to Appendix D for the water data from this well.

8) Current sampling results for any wells within a half mile radius of any current or historic sump. You are required to sample these wells for the constituents listed in Appendix D and submit the results in your technical report.

See response to #7.

9) Locations, well construction, and survey data for any monitoring wells in the vicinity of any current or historic sumps, and water quality data associated with these wells.

There are no monitoring wells on the Careaga Lease in the Orcutt Oil Field.

If you have any questions or require additional information, please contact Ramon Elias at (805) 621-5604 or Beth Marino at (805) 621-5615.

CERTIFICATION:

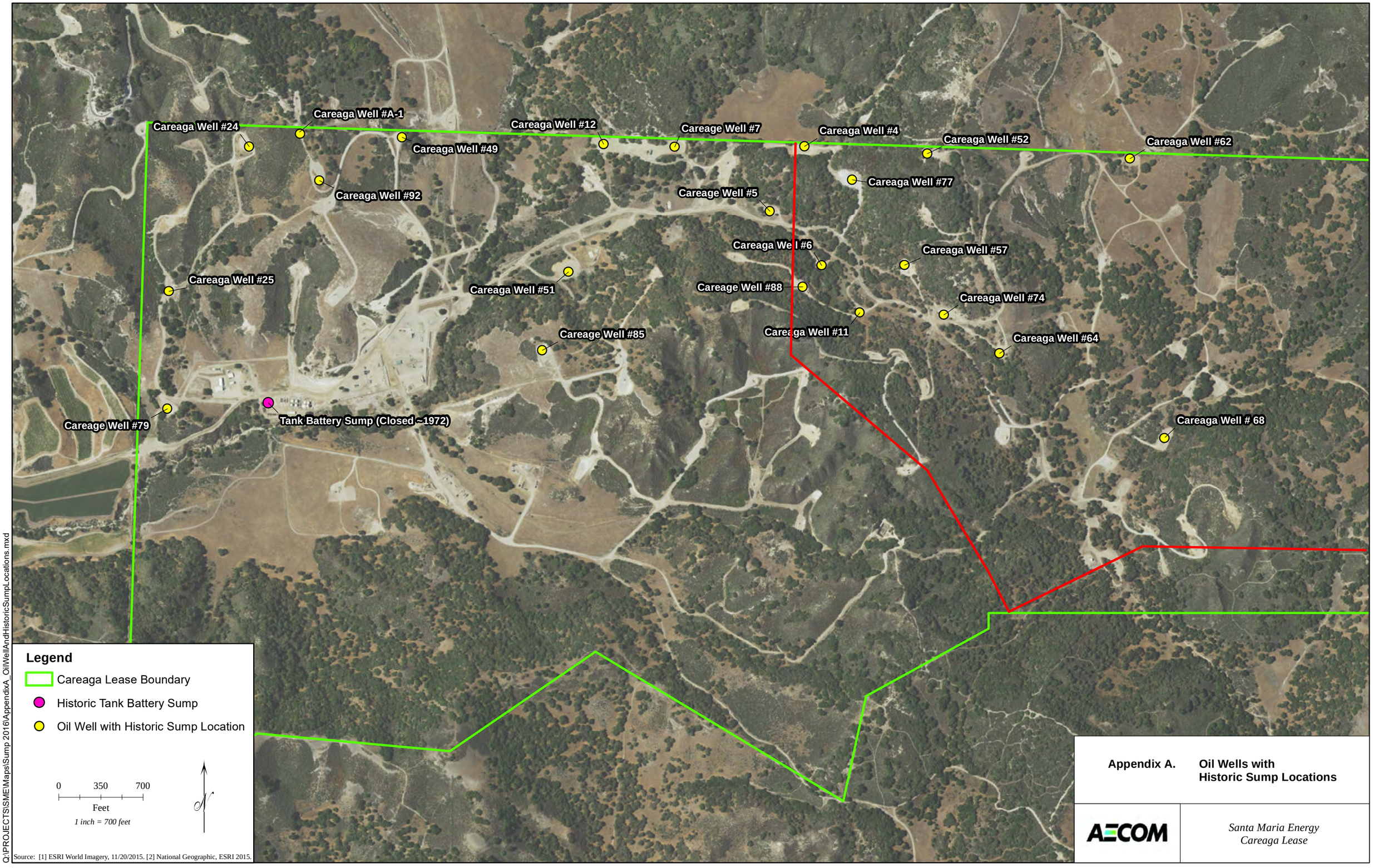
I certify under penalty of law that I have personally examined and am familiar with the information submitted in the document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SANTA MARIA ENERGY, LLC

By: Ramon Elias
Its: Vice-President of Reservoir Engineering

Attachments:
- Appendix A: Oil Wells with Historic Sump Locations
- Appendix B: Historic Sump Table
- Appendix C: Location of Nearby Water Wells
- Appendix D: Water Well tests for On-site Well

cc: Julie Macedo, State Water Board (julie.macedo@waterboards.ca.gov)
Janice Zinky, State Water Board (janice.zinky@waterboards.ca.gov)
Eric Gillman, State Water Board (eric.gillman@waterboards.ca.gov)
John Robertson, Central Coast Water Board (john.robertson@waterboards.ca.gov)
Aaron Katona, Central Coast Water Board (aaron.katona@waterboards.ca.gov)



Legend

- Careaga Lease Boundary
- Historic Tank Battery Sump
- Oil Well with Historic Sump Location

0 350 700
Feet
1 inch = 700 feet

Source: [1] ESRI World Imagery, 11/20/2015. [2] National Geographic, ESRI 2015.

Appendix A. **Oil Wells with Historic Sump Locations**

AECOM

Santa Maria Energy
Careaga Lease

Q:\PROJECTS\SME\Maps\Sump 2016\AppendixA_OilWellAndHistoricSumpLocations.mxd

Appendix B: Historic Sump Table

THE INFORMATION IS REQUIRED PURSUANT TO CALIFORNIA WATER CODE SECTION 13267
CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD, FRESNO, CA

Santa Maria Energy, LLC Historic Sump Report December 15, 2015

A.	B.	C.	D.	E.		F.	G.	H.	I.	J.	K.	L.	M.	N.	O.
Owner and/or Operator	Field Name	County	Sump Name/Description	Sump Location Latitude	Longitude	(LxWxD) Sump Volume in ft.^{3}	When Was the Sump First Excavated?	How Many Years Was the Sump Active?	Total Annual Amount of Fluid Discharged in bbls.	Composition of Fluid(s)	Was Sump filled with Soil or Other Material? (Yes/No)	When Was the Sump Filled?	What Material Was Used to Fill the Sump?	Was There Solidified Waste? (Yes/No)	If Yes, What Was the Composition of those Solids?
SME	Orcutt	Santa Barbara	Careaga Well #4	34.818894085	120.387249531	Unknown	Jan. 1916	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #5	34.817398853	120.388163947	Unknown	Mar. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #6	34.816190783	120.386696432	Unknown	April. 1902	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #7	34.818812448	120.390838890	Unknown	May. 1902	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #11	34.815132622	120.385615191	Unknown	Dec. 1903	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #12	34.818835597	120.392810217	Unknown	Nov. 1902	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #24	34.818585650	120.402607961	Unknown	July. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #25	34.815246020	120.404736011	Unknown	Oct. 1905	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #49	34.818883246	120.398383640	Unknown	Oct. 1912	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #51	34.815902288	120.393697665	Unknown	Feb. 1913	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #52	34.818797079	120.383850995	Unknown	July. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #57	34.816240791	120.384408675	Unknown	May. 1916	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #62	34.818787559	120.378247372	Unknown	April. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #64	34.814279543	120.381720525	Unknown	Nov. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well # 68	34.812908241	120.378108003	Unknown	Dec. 1919	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #74	34.815124242	120.383290459	Unknown	Jan. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #77	34.818161715	120.385911009	Unknown	Mar. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #79	34.812562570	120.404698481	Unknown	Jan. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #85	34.814100152	120.394366454	Unknown	Oct. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #88	34.815689628	120.387206890	Unknown	June. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #92	34.817848220	120.400641938	Unknown	Oct. 1922	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #A-1	34.818906178	120.401210824	Unknown	April. 1930	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Tank Battery Sump (Closed ~1972)	34.812753	120.401913	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	

SME Water Well

Gracioosa Rd

Harris Grade Rd

San Antonio Rd

Palmer Rd

US-101

Coast Ranges

Legend

- Santa Maria Energy Site Location
- Non-USDW Boundary
- One Mile Radius from Non-USDW Boundary
- Oil Well
- Agricultural Irrigation Water Well
- Santa Maria Energy Water Well
- Presumed Domestic Well

0 1,250 2,500 5,000

Feet

1 inch = 2,500 feet

Source: [1] Bing Maps Hybrid, © 2014 Microsoft Corporation.

Appendix C	**Location of Nearby Water Wells**
URS	SANTA MARIA ENERGY *Non-USDW Demonstration for Diatomite* *Careaga Lease of Orcutt Oil Field* *Santa Barbara County, California*

Q:\PROJECTS\SME\Maps\Diatomite 136 Well\AppendixC_WaterWellLocations.mxd

BSK Analytical Laboratories
Engineering Laboratories

Certificate of Analysis

Amanda Smith
Abalone Coast Analytical, Inc.
141 Suburban, Suite C-1
San Luis Obispo, CA 93401

Report Issue Date: 07/28/2011 15:23
Received Date: 07/15/2011
Received Time: 07:45

Lab Sample ID: A1G1122-01
Sample Date: 07/14/2011 11:30
Sample Type: Grab

Client Project: 11-4082 F&T Drilling
Sampled by: Client
Matrix: Drinking Water

Sample Description: 7980 Graciosa Rd // 11-4082-1

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Aggressive Index		13				A108783	07/26/11	07/26/11	
Alkalinity as CaCO3	SM 2320 B	310	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Bicarbonate as CaCO3	SM 2320 B	310	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Chloride	EPA 300.0	430	10	mg/L	10	A108298	07/16/11	07/16/11	
*Color	SM 2120 B	30	1.0	Color Units	1	A108316	07/15/11 16:36	07/15/11 16:36	
Cyanide (total)	SM 4500-CN E	ND	0.0050	mg/L	1	A108586	07/22/11	07/22/11	
Conductivity @ 25C	SM 2510 B	2100	1.0	umhos/cm	1	A108320	07/17/11	07/17/11	
Fluoride	SM 4500-F C	0.22	0.10	mg/L	1	A108768	07/26/11	07/26/11	
Langelier Index	SM 2330 B	1.1				A108783	07/26/11	07/26/11	
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A108326	07/15/11 18:00	07/15/11 18:00	
Nitrate as NO3	EPA 300.0	ND	10	mg/L	10	A108298	07/16/11 04:10	07/16/11 04:10	DL01
Nitrite as N	EPA 300.0	ND	0.50	mg/L	10	A108298	07/16/11 04:10	07/16/11 04:10	DL01
*Threshold Odor	SM 2150 B	100	1.0	T.O.N.	1	A108316	07/15/11 16:36	07/15/11 16:36	
pH (1)	SM 4500-H+ B	7.9		pH Units	1	A108320	07/17/11	07/17/11	
pH Temperature in °C		21.0							
Sulfate as SO4	EPA 300.0	130	20	mg/L	10	A108298	07/16/11	07/16/11	
Total Dissolved Solids	SM 2540C	1400	5.0	mg/L	1	A108297	07/15/11	07/19/11	
Turbidity	SM 2130 B	14	0.20	NTU	2	A108316	07/15/11 16:36	07/15/11 16:36	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	0.43	0.050	mg/L	1	A108488	07/20/11	07/25/11	
Antimony	EPA 200.8	ND	2.0	ug/L	1	A108488	07/20/11	07/25/11	
Arsenic	EPA 200.8	3.8	2.0	ug/L	1	A108488	07/20/11	07/26/11	
Barium	EPA 200.7	0.31	0.050	mg/L	1	A108488	07/20/11	07/25/11	
Beryllium	EPA 200.8	ND	1.0	ug/L	1	A108488	07/20/11	07/25/11	
Cadmium	EPA 200.8	ND	1.0	ug/L	1	A108488	07/20/11	07/25/11	
Calcium	EPA 200.7	190	0.10	mg/L	1	A108488	07/20/11	07/25/11	
Chromium	EPA 200.8	ND	10	ug/L	1	A108488	07/20/11	07/25/11	
Copper	EPA 200.8	6.6	5.0	ug/L	1	A108488	07/20/11	07/25/11	
Iron	EPA 200.7	1.3	0.050	mg/L	1	A108488	07/20/11	07/25/11	
Lead	EPA 200.8	ND	5.0	ug/L	1	A108488	07/20/11	07/25/11	
Magnesium	EPA 200.7	62	0.10	mg/L	1	A108488	07/20/11	07/25/11	
Manganese	EPA 200.7	0.69	0.010	mg/L	1	A108488	07/20/11	07/25/11	

BSK Analytical Laboratories
Engineering & Laboratories

Certificate of Analysis

Amanda Smith
Abalone Coast Analytical, Inc.
141 Suburban, Suite C-1
San Luis Obispo, CA 93401

Report Issue Date: 07/28/2011 15:23
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Lab Sample ID: A1G1122-01
Sample Date: 07/14/2011 11:30
Sample Type: Grab

Client Project: 11-4082 F&T Drilling
Sampled by: Client
Matrix: Drinking Water

Sample Description: 7980 Graciosa Rd // 11-4082-1

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Mercury	EPA 200.8	ND	0.40	ug/L	1	A108488	07/20/11	07/25/11	
Nickel	EPA 200.8	ND	10	ug/L	1	A108488	07/20/11	07/25/11	
Potassium	EPA 200.7	10	2.0	mg/L	1	A108488	07/20/11	07/25/11	
Selenium	EPA 200.8	11	2.0	ug/L	1	A108488	07/20/11	07/25/11	
Silver	EPA 200.8	ND	10	ug/L	1	A108488	07/20/11	07/25/11	
Sodium	EPA 200.7	170	1.0	mg/L	1	A108488	07/20/11	07/25/11	
Thallium	EPA 200.8	ND	1.0	ug/L	1	A108488	07/20/11	07/25/11	
Hardness as CaCO3	SM 2340B	720	0.41	mg/L					
Zinc	EPA 200.7	ND	0.050	mg/L	1	A108488	07/20/11	07/25/11	

BSK Analytical Laboratories
Engineers & Laboratories

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108297				Analyst: DEH		Prepared: 07/15/2011					
Blank (A108297-BLK1) SM 2540C - Quality Control											
Total Dissolved Solids	ND	5.0	mg/L							07/19/11	
Duplicate (A108297-DUP1) SM 2540C - Quality Control						Source: A1G1026-02					
Total Dissolved Solids	120	5.0	mg/L		120			3	20	07/19/11	
Batch: A108298				Analyst: AJT		Prepared: 07/15/2011					
Blank (A108298-BLK1) EPA 300.0 - Quality Control											
Chloride	ND	1.0	mg/L							07/15/11	
Nitrate as NO3	ND	1.0	mg/L							07/15/11	
Nitrite as N	ND	0.050	mg/L							07/15/11	
Sulfate as SO4	ND	2.0	mg/L							07/15/11	
Blank Spike (A108298-BS1) EPA 300.0 - Quality Control											
Chloride	51	1.0	mg/L	50		102	90-110			07/16/11	
Nitrate as NO3	51	1.0	mg/L	50		102	90-110			07/16/11	
Nitrite as N	0.52	0.050	mg/L	0.50		104	90-110			07/16/11	
Sulfate as SO4	52	2.0	mg/L	50		103	90-110			07/16/11	
Blank Spike Dup (A108298-BSD1) EPA 300.0 - Quality Control											
Chloride	51	1.0	mg/L	50		101	90-110	0	10	07/16/11	
Nitrate as NO3	51	1.0	mg/L	50		102	90-110	0	10	07/16/11	
Nitrite as N	0.53	0.050	mg/L	0.50		106	90-110	2	10	07/16/11	
Sulfate as SO4	51	2.0	mg/L	50		103	90-110	1	10	07/16/11	
Matrix Spike (A108298-MS1) EPA 300.0 - Quality Control						Source: A1G1026-06					
Chloride	120	2.0	mg/L	100	20	101	80-120			07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	2.5	103	80-120			07/16/11	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	105	80-120			07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	18	105	80-120			07/16/11	
Matrix Spike (A108298-MS2) EPA 300.0 - Quality Control						Source: A1G1108-05					
Chloride	110	2.0	mg/L	100	5.7	108	80-120			07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	3.6	109	80-120			07/16/11	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	104	80-120			07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	6.0	109	80-120			07/16/11	
Matrix Spike Dup (A108298-MSD1) EPA 300.0 - Quality Control						Source: A1G1026-06					
Chloride	120	2.0	mg/L	100	20	101	80-120	0	10	07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	2.5	103	80-120	0	10	07/16/11	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	108	80-120	3	20	07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	18	104	80-120	1	10	07/16/11	
Matrix Spike Dup (A108298-MSD2) EPA 300.0 - Quality Control						Source: A1G1108-05					
Chloride	110	2.0	mg/L	100	5.7	109	80-120	1	10	07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	3.6	109	80-120	0	10	07/16/11	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	100	80-120	4	20	07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	6.0	110	80-120	1	10	07/16/11	

1414 Stanislaus Street Fresno, CA 93706 (559) 497-2888 FAX (559) 485-6935 www.bsklabs.com

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Environmental Engineering | Geotechnical Engineering | Materials Testing

BSK Analytical Laboratories
Engineers & Laboratories

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108298				Analyst: AJT		Prepared: 07/16/2011					
Batch: A108316				Analyst: CEG		Prepared: 07/15/2011					
Blank (A108316-BLK1) SM 2120 B - Quality Control											
Color	ND	1.0	Color Units							07/15/11	
Threshold Odor	ND	1.0	T.O.N.							07/15/11	
Turbidity	ND	0.10	NTU							07/15/11	
Duplicate (A108316-DUP1) SM 2120 B - Quality Control					Source: A1G1110-01						
Color	ND	1.0	Color Units		ND				20	07/15/11	
Threshold Odor	ND	1.0	T.O.N.		ND				20	07/15/11	
Turbidity	ND	0.10	NTU		ND				20	07/15/11	
Batch: A108320				Analyst: CEG		Prepared: 07/17/2011					
Blank (A108320-BLK1) SM 2320 B - Quality Control											
Alkalinity as CaCO3	ND	3.0	mg/L							07/17/11	
Bicarbonate as CaCO3	ND	3.0	mg/L							07/17/11	
Carbonate as CaCO3	ND	3.0	mg/L							07/17/11	
Conductivity @ 25C	ND	1.0	umhos/cm							07/17/11	
Hydroxide as CaCO3	ND	3.0	mg/L							07/17/11	
Blank Spike (A108320-BS1) SM 2320 B - Quality Control											
Alkalinity as CaCO3	95	3.0	mg/L	100		95	80-120			07/17/11	
Blank Spike Dup (A108320-BSD1) SM 2320 B - Quality Control											
Alkalinity as CaCO3	93	3.0	mg/L	100		93	80-120	2	20	07/17/11	
Duplicate (A108320-DUP1) SM 2320 B - Quality Control					Source: A1G1066-01						
Alkalinity as CaCO3	68	3.0	mg/L		62			9	10	07/17/11	
Bicarbonate as CaCO3	68	3.0	mg/L		62			9	10	07/17/11	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
Conductivity @ 25C	160	1.0	umhos/cm		160			1	20	07/17/11	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
pH (1)	7.7		pH Units		7.7			0	20	07/17/11	
Duplicate (A108320-DUP2) SM 2320 B - Quality Control					Source: A1G1110-03						
Alkalinity as CaCO3	270	3.0	mg/L		270			1	10	07/17/11	
Bicarbonate as CaCO3	270	3.0	mg/L		270			1	10	07/17/11	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
Conductivity @ 25C	690	1.0	umhos/cm		680			1	20	07/17/11	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
pH (1)	8.1		pH Units		8.1			1	20	07/17/11	
Batch: A108326				Analyst: LJL		Prepared: 07/15/2011					
Blank (A108326-BLK1) SM 5540 C - Quality Control											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							07/15/11	
Blank Spike (A108326-BS1) SM 5540 C - Quality Control											

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General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108326				Analyst: LJL		Prepared: 07/15/2011					
Blank Spike (A108326-BS1) SM 5540 C - Quality Control											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0		101	80-120			07/15/11	
Blank Spike Dup (A108326-BSD1) SM 5540 C - Quality Control											
MBAS, Calculated as LAS, mol wt 340	0.97	0.050	mg/L	1.0		97	80-120	4	20	07/15/11	
Matrix Spike (A108326-MS1) SM 5540 C - Quality Control						Source: A1G1110-01					
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	102	80-120			07/15/11	
Matrix Spike Dup (A108326-MSD1) SM 5540 C - Quality Control						Source: A1G1110-01					
MBAS, Calculated as LAS, mol wt 340	0.99	0.050	mg/L	1.0	ND	99	80-120	3	20	07/15/11	
Batch: A108586				Analyst: LJL		Prepared: 07/22/2011					
Blank (A108586-BLK1) SM 4500-CN E - Quality Control											
Cyanide (total)	ND	0.0050	mg/L							07/22/11	
Blank Spike (A108586-BS1) SM 4500-CN E - Quality Control											
Cyanide (total)	0.48	0.0050	mg/L	0.50		97	80-120			07/22/11	
Blank Spike Dup (A108586-BSD1) SM 4500-CN E - Quality Control											
Cyanide (total)	0.48	0.0050	mg/L	0.50		97	80-120	0	20	07/22/11	
Matrix Spike (A108586-MS1) SM 4500-CN E - Quality Control						Source: A1G1485-01					
Cyanide (total)	0.45	0.0050	mg/L	0.50	ND	90	80-120			07/22/11	
Matrix Spike (A108586-MS2) SM 4500-CN E - Quality Control						Source: A1G1238-01					
Cyanide (total)	0.51	0.0050	mg/L	0.50	ND	102	80-120			07/22/11	
Matrix Spike Dup (A108586-MSD1) SM 4500-CN E - Quality Control						Source: A1G1485-01					
Cyanide (total)	0.51	0.0050	mg/L	0.50	ND	103	80-120	13	20	07/22/11	
Matrix Spike Dup (A108586-MSD2) SM 4500-CN E - Quality Control						Source: A1G1238-01					
Cyanide (total)	0.51	0.0050	mg/L	0.50	ND	101	80-120	1	20	07/22/11	
Batch: A108768				Analyst: RMJ		Prepared: 07/26/2011					
Blank (A108768-BLK1) SM 4500-F C - Quality Control											
Fluoride	ND	0.10	mg/L							07/26/11	
Blank Spike (A108768-BS1) SM 4500-F C - Quality Control											
Fluoride	0.99	0.10	mg/L	1.0		99	80-120			07/26/11	
Blank Spike Dup (A108768-BSD1) SM 4500-F C - Quality Control											
Fluoride	1.0	0.10	mg/L	1.0		104	80-120	5	20	07/26/11	
Matrix Spike (A108768-MS1) SM 4500-F C - Quality Control						Source: A1G1110-02					
Fluoride	1.4	0.10	mg/L	1.0	0.36	102	80-120			07/26/11	

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Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108768				Analyst: RMJ		Prepared: 07/26/2011					
Matrix Spike (A108768-MS2)	**SM 4500-F C - Quality Control**					**Source: A1G1160-07**					
Fluoride	0.93	0.10	mg/L	1.0	ND	90	80-120			07/26/11	
Matrix Spike Dup (A108768-MSD1)	**SM 4500-F C - Quality Control**					**Source: A1G1110-02**					
Fluoride	1.4	0.10	mg/L	1.0	0.36	107	80-120	4	20	07/26/11	
Matrix Spike Dup (A108768-MSD2)	**SM 4500-F C - Quality Control**					**Source: A1G1160-07**					
Fluoride	0.97	0.10	mg/L	1.0	ND	94	80-120	4	20	07/26/11	

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Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108488				Analyst: NRE		Prepared: 07/20/2011					
Blank (A108488-BLK2) EPA 200.7 - Quality Control											
Aluminum	ND	0.050	mg/L							07/25/11	
Barium	ND	0.050	mg/L							07/25/11	
Calcium	ND	0.10	mg/L							07/25/11	
Iron	ND	0.050	mg/L							07/25/11	
Magnesium	ND	0.10	mg/L							07/25/11	
Manganese	ND	0.010	mg/L							07/25/11	
Potassium	ND	2.0	mg/L							07/25/11	
Sodium	ND	1.0	mg/L							07/25/11	
Zinc	ND	0.050	mg/L							07/25/11	
Blank Spike (A108488-BS2) EPA 200.7 - Quality Control											
Aluminum	0.20	0.050	mg/L	0.20		101	85-115			07/25/11	
Barium	0.20	0.050	mg/L	0.20		99	85-115			07/25/11	
Calcium	9.8	0.10	mg/L	10		98	85-115			07/25/11	
Iron	2.0	0.050	mg/L	2.0		99	85-115			07/25/11	
Magnesium	9.7	0.10	mg/L	10		97	85-115			07/25/11	
Manganese	0.20	0.010	mg/L	0.20		100	85-115			07/25/11	
Potassium	9.6	2.0	mg/L	10		96	85-115			07/25/11	
Sodium	9.9	1.0	mg/L	10		99	85-115			07/25/11	
Zinc	0.20	0.050	mg/L	0.20		99	85-115			07/25/11	
Blank Spike Dup (A108488-BSD2) EPA 200.7 - Quality Control											
Aluminum	0.20	0.050	mg/L	0.20		99	85-115	2	20	07/25/11	
Barium	0.20	0.050	mg/L	0.20		98	85-115	1	20	07/25/11	
Calcium	9.7	0.10	mg/L	10		97	85-115	1	20	07/25/11	
Iron	1.9	0.050	mg/L	2.0		97	85-115	2	20	07/25/11	
Magnesium	9.5	0.10	mg/L	10		95	85-115	2	20	07/25/11	
Manganese	0.19	0.010	mg/L	0.20		97	85-115	2	20	07/25/11	
Potassium	9.5	2.0	mg/L	10		95	85-115	1	20	07/25/11	
Sodium	9.9	1.0	mg/L	10		99	85-115	0	20	07/25/11	
Zinc	0.19	0.050	mg/L	0.20		96	85-115	3	20	07/25/11	
Matrix Spike (A108488-MS3) EPA 200.7 - Quality Control						Source: A1G1118-05					
Aluminum	0.22	0.050	mg/L	0.20	ND	98	70-130			07/25/11	
Barium	0.20	0.050	mg/L	0.20	ND	100	70-130			07/25/11	
Calcium	12	0.10	mg/L	10	1.8	98	70-130			07/25/11	
Iron	2.0	0.050	mg/L	2.0	ND	97	70-130			07/25/11	
Magnesium	10	0.10	mg/L	10	0.43	96	70-130			07/25/11	
Manganese	0.21	0.010	mg/L	0.20	0.012	96	70-130			07/25/11	
Potassium	9.9	2.0	mg/L	10	ND	99	70-130			07/25/11	
Sodium	14	1.0	mg/L	10	4.2	101	70-130			07/25/11	
Zinc	0.41	0.050	mg/L	0.20	0.21	99	70-130			07/25/11	
Matrix Spike Dup (A108488-MSD3) EPA 200.7 - Quality Control						Source: A1G1118-05					
Aluminum	0.23	0.050	mg/L	0.20	ND	102	70-130	4	20	07/25/11	
Barium	0.20	0.050	mg/L	0.20	ND	101	70-130	1	20	07/25/11	
Calcium	12	0.10	mg/L	10	1.8	102	70-130	4	20	07/25/11	
Iron	2.0	0.050	mg/L	2.0	ND	100	70-130	3	20	07/25/11	

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Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108488				Analyst: NRE		Prepared: 07/20/2011					
Matrix Spike Dup (A108488-MSD3)	**EPA 200.7 - Quality Control**						**Source: A1G1118-05**				
Magnesium	10	0.10	mg/L	10	0.43	100	70-130	5	20	07/25/11	
Manganese	0.21	0.010	mg/L	0.20	0.012	99	70-130	2	20	07/25/11	
Potassium	10	2.0	mg/L	10	ND	102	70-130	4	20	07/25/11	
Sodium	14	1.0	mg/L	10	4.2	101	70-130	1	20	07/25/11	
Zinc	0.42	0.050	mg/L	0.20	0.21	102	70-130	1	20	07/25/11	
Blank (A108488-BLK1)	**EPA 200.8 - Quality Control**										
Antimony	ND	2.0	ug/L							07/25/11	
Arsenic	ND	2.0	ug/L							07/25/11	
Beryllium	ND	1.0	ug/L							07/25/11	
Cadmium	ND	1.0	ug/L							07/25/11	
Chromium	ND	10	ug/L							07/25/11	
Copper	ND	5.0	ug/L							07/25/11	
Lead	ND	5.0	ug/L							07/25/11	
Mercury	ND	0.40	ug/L							07/25/11	
Nickel	ND	10	ug/L							07/25/11	
Selenium	ND	2.0	ug/L							07/25/11	
Silver	ND	10	ug/L							07/25/11	
Thallium	ND	1.0	ug/L							07/25/11	
Blank Spike (A108488-BS1)	**EPA 200.8 - Quality Control**										
Antimony	210	2.0	ug/L	200		103	85-115			07/25/11	
Arsenic	200	2.0	ug/L	200		99	85-115			07/25/11	
Beryllium	190	1.0	ug/L	200		95	85-115			07/25/11	
Cadmium	200	1.0	ug/L	200		100	85-115			07/25/11	
Chromium	200	10	ug/L	200		98	85-115			07/25/11	
Copper	180	5.0	ug/L	200		92	85-115			07/25/11	
Lead	200	5.0	ug/L	200		102	85-115			07/25/11	
Mercury	5.1	0.40	ug/L	5.0		103	85-115			07/25/11	
Nickel	190	10	ug/L	200		95	85-115			07/25/11	
Selenium	190	2.0	ug/L	200		96	85-115			07/25/11	
Silver	92	10	ug/L	100		92	75-125			07/25/11	
Thallium	210	1.0	ug/L	200		107	85-115			07/25/11	
Blank Spike Dup (A108488-BSD1)	**EPA 200.8 - Quality Control**										
Antimony	200	2.0	ug/L	200		102	85-115	1	20	07/25/11	
Arsenic	190	2.0	ug/L	200		97	85-115	2	20	07/25/11	
Beryllium	180	1.0	ug/L	200		92	85-115	4	20	07/25/11	
Cadmium	190	1.0	ug/L	200		97	85-115	3	20	07/25/11	
Chromium	190	10	ug/L	200		95	85-115	3	20	07/25/11	
Copper	180	5.0	ug/L	200		90	85-115	2	20	07/25/11	
Lead	200	5.0	ug/L	200		99	85-115	3	20	07/25/11	
Mercury	4.8	0.40	ug/L	5.0		97	85-115	6	20	07/25/11	
Nickel	190	10	ug/L	200		93	85-115	2	20	07/25/11	
Selenium	190	2.0	ug/L	200		96	85-115	0	20	07/25/11	
Silver	92	10	ug/L	100		92	75-125	0	20	07/25/11	
Thallium	200	1.0	ug/L	200		102	85-115	4	20	07/25/11	

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Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108488				Analyst: PSK		Prepared: 07/20/2011					
Matrix Spike (A108488-MS1)	**EPA 200.8 - Quality Control**					**Source: A1G1118-05**					
Antimony	210	2.0	ug/L	200	ND	103	70-130			07/25/11	
Arsenic	200	2.0	ug/L	200	ND	98	70-130			07/25/11	
Beryllium	180	1.0	ug/L	200	ND	92	70-130			07/25/11	
Cadmium	200	1.0	ug/L	200	ND	99	70-130			07/25/11	
Chromium	190	10	ug/L	200	ND	95	70-130			07/25/11	
Copper	200	5.0	ug/L	200	17	91	70-130			07/25/11	
Lead	190	5.0	ug/L	200	ND	97	70-130			07/25/11	
Mercury	5.0	0.40	ug/L	5.0	ND	100	70-130			07/25/11	
Nickel	190	10	ug/L	200	ND	92	70-130			07/25/11	
Selenium	190	2.0	ug/L	200	ND	95	70-130			07/25/11	
Silver	92	10	ug/L	100	ND	92	70-130			07/25/11	
Thallium	210	1.0	ug/L	200	ND	107	70-130			07/25/11	
Matrix Spike (A108488-MS2)	**EPA 200.8 - Quality Control**					**Source: A1G1124-02**					
Antimony	220	2.0	ug/L	200	ND	109	70-130			07/25/11	
Arsenic	200	2.0	ug/L	200	3.0	99	70-130			07/25/11	
Beryllium	190	1.0	ug/L	200	ND	93	70-130			07/25/11	
Cadmium	200	1.0	ug/L	200	ND	101	70-130			07/25/11	
Chromium	220	10	ug/L	200	20	97	70-130			07/25/11	
Copper	190	5.0	ug/L	200	ND	91	70-130			07/25/11	
Lead	180	5.0	ug/L	200	ND	90	70-130			07/25/11	
Mercury	5.1	0.40	ug/L	5.0	ND	102	70-130			07/25/11	
Nickel	180	10	ug/L	200	ND	91	70-130			07/25/11	
Selenium	210	2.0	ug/L	200	4.9	100	70-130			07/25/11	
Silver	92	10	ug/L	100	ND	92	70-130			07/25/11	
Thallium	200	1.0	ug/L	200	ND	98	70-130			07/25/11	
Matrix Spike Dup (A108488-MSD1)	**EPA 200.8 - Quality Control**					**Source: A1G1118-05**					
Antimony	210	2.0	ug/L	200	ND	105	70-130	2	20	07/25/11	
Arsenic	200	2.0	ug/L	200	ND	98	70-130	0	20	07/25/11	
Beryllium	190	1.0	ug/L	200	ND	93	70-130	0	20	07/25/11	
Cadmium	200	1.0	ug/L	200	ND	99	70-130	0	20	07/25/11	
Chromium	190	10	ug/L	200	ND	95	70-130	1	20	07/25/11	
Copper	200	5.0	ug/L	200	17	91	70-130	0	20	07/25/11	
Lead	190	5.0	ug/L	200	ND	94	70-130	3	20	07/25/11	
Mercury	4.9	0.40	ug/L	5.0	ND	99	70-130	2	20	07/25/11	
Nickel	190	10	ug/L	200	ND	90	70-130	2	20	07/25/11	
Selenium	190	2.0	ug/L	200	ND	97	70-130	2	20	07/25/11	
Silver	93	10	ug/L	100	ND	93	70-130	1	20	07/25/11	
Thallium	210	1.0	ug/L	200	ND	104	70-130	3	20	07/25/11	
Matrix Spike Dup (A108488-MSD2)	**EPA 200.8 - Quality Control**					**Source: A1G1124-02**					
Antimony	220	2.0	ug/L	200	ND	111	70-130	2	20	07/25/11	
Arsenic	200	2.0	ug/L	200	3.0	100	70-130	1	20	07/25/11	
Beryllium	190	1.0	ug/L	200	ND	93	70-130	1	20	07/25/11	
Cadmium	200	1.0	ug/L	200	ND	101	70-130	0	20	07/25/11	
Chromium	210	10	ug/L	200	20	97	70-130	1	20	07/25/11	
Copper	180	5.0	ug/L	200	ND	90	70-130	1	20	07/25/11	

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Certificate of Analysis

07/28/2011

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
- Sample(s) received, prepared, and analyzed within the method specified criteria unless otherwise noted within this report.
- The results relate only to the samples analyzed in accordance with test(s) requested by the client on the Chain of Custody document. Any analytical quality control exceptions to method criteria that are to be considered when evaluating these results have been flagged and are defined in the data qualifiers section.
- All results are expressed on wet weight basis unless otherwise specified.
- All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Results contained in this analytical report must be reproduced in its entirety.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses unless qualified or noted in the Case Narrative.
- Analytical data contained in this report may be used for regulatory purposes to meet the requirements of the Federal or State drinking water, wastewater, and hazardous waste programs.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals. Samples submitted to the laboratory have been analyzed outside of this holding time requirement.
- * - This is not a NELAP accredited analyte.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- (2) The digestion used to produce this result deviated from EPA 200.2 by excluding hydrochloric acid in order to produce acceptable recoveries for affected metals.
- (2C) Result reported from secondary analytical column.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.

Certifications:

State of California - CDPH - ELAP	1180
State of California - CDPH - NELAP	04227CA
State of New Mexico - NMED-DWB	
State of Nevada - NDEP	CA000792009A

Definitions and Flags for Data Qualifiers

mg/L:	Milligrams/Liter (ppm)	M:	Method Detection Limit	MDA:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)		:DL x Dilution	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	ND:	None Detected at RL	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	pCi/L:	Picocuries per Liter	Present:	1 or more CFU/100mLs
		NR:	Non-Reportable	RL Mult:	RL Multiplier

DL01 Sample required dilution due to matrix or high concentration of non-target analyte.

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Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108488				Analyst: PSK		Prepared: 07/20/2011					
Matrix Spike Dup (A108488-MSD2)	**EPA 200.8 - Quality Control**					**Source: A1G1124-02**					
Lead	180	5.0	ug/L	200	ND	89	70-130	2	20	07/25/11	
Mercury	4.8	0.40	ug/L	5.0	ND	97	70-130	5	20	07/25/11	
Nickel	180	10	ug/L	200	ND	90	70-130	2	20	07/25/11	
Selenium	210	2.0	ug/L	200	4.9	102	70-130	2	20	07/25/11	
Silver	93	10	ug/L	100	ND	93	70-130	0	20	07/25/11	
Thallium	200	1.0	ug/L	200	ND	100	70-130	2	20	07/25/11	

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Appendix M

Subject Property Photographs

Appendix M
Site Photographs



Six-inch-diameter pipeline crossing Newlove Park Area (Remainder Parcel 3).



Careaga Well C-#6 Exhibiting staining at the wellhead.



Example of steel pipelines traversing the Careaga site. Two pipes emanate from each well.



Remnants of former jack line located between Careaga Wells C-#6 and C-#11.



Careaga Well #11-31



Separator, Piping Manifold and Test Header west of Careaga Well #74



Gas scrubbers west of Careaga Well #C-146D



Gas scrubber area



Gitte-Ten Tank Battery (aka Section 32 TB, 37A TB - out-of-service 2008) in southern portion of Subject Property – Careaga Area.



Gitte-Ten Tank Battery Gauge Tank - Careaga



Careaga Well #37 with Cellar



Equipment and Scrap Storage near abandoned Careaga Well #C-102



Equipment and Scrap Storage near abandoned Careaga Well #C-102



Careaga Well #C-36 with cellar



Equipment storage area south of abandoned Careaga Well C-#146



South of Subject Property is undeveloped land with sparse oil well operations, mostly abandoned.



Equipment storage area near Careaga Well C-#6742X



Chemical usage area, corrosion inhibitor and scale inhibitor, poly containers in secondary containment at Careaga Well C-#6



Piping along lease road near Careaga Well C-#78



Careaga Well B-5 idle injection well



Newlove Well #48. Internal combustion engine, chemical usage/containers within secondary containment.



Newlove Well #48 with concrete cellar and staining



Newlove Well #46



Careaga Well C-#57 with tubing rack



Piping repair and soil staining east of roadway to Careaga Well C-#57



Bicknell Road west of Specific Plan area looking west. Piping was located alongside the road.



Piping manifold/header north of Bicknell Road near Careaga Well C-#3.



Former swimming pool north of Bicknell Road near Careaga Well C-#14.



Piping alongside Bicknell road and pole-mounted transformers (“non-PCB”) near Careaga Well C-#44 and Careaga steam facility area.



Close-up of pole-mounted transformers (“non-PCB”).



Careaga steam facility and piping with gas separation facility in distance.



Careaga Well C-#1714



Careaga Gas separation facility south of Bicknell Road



Careaga Gas separation facility south of Bicknell Road



Careaga Tank Battery and Loading Rack immediately south of Bicknell Road



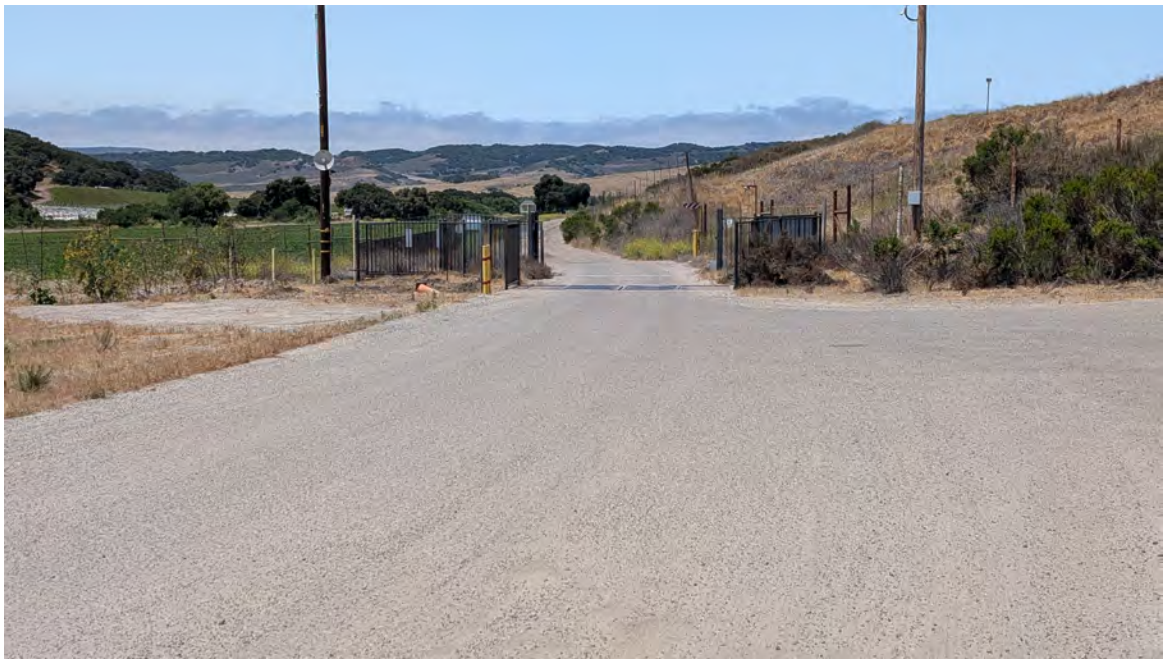
Careaga Tank Battery and Loading Rack immediately south of Bicknell Road



Looking east - Careaga Tank Battery and Loading Rack immediately south of Bicknell Road



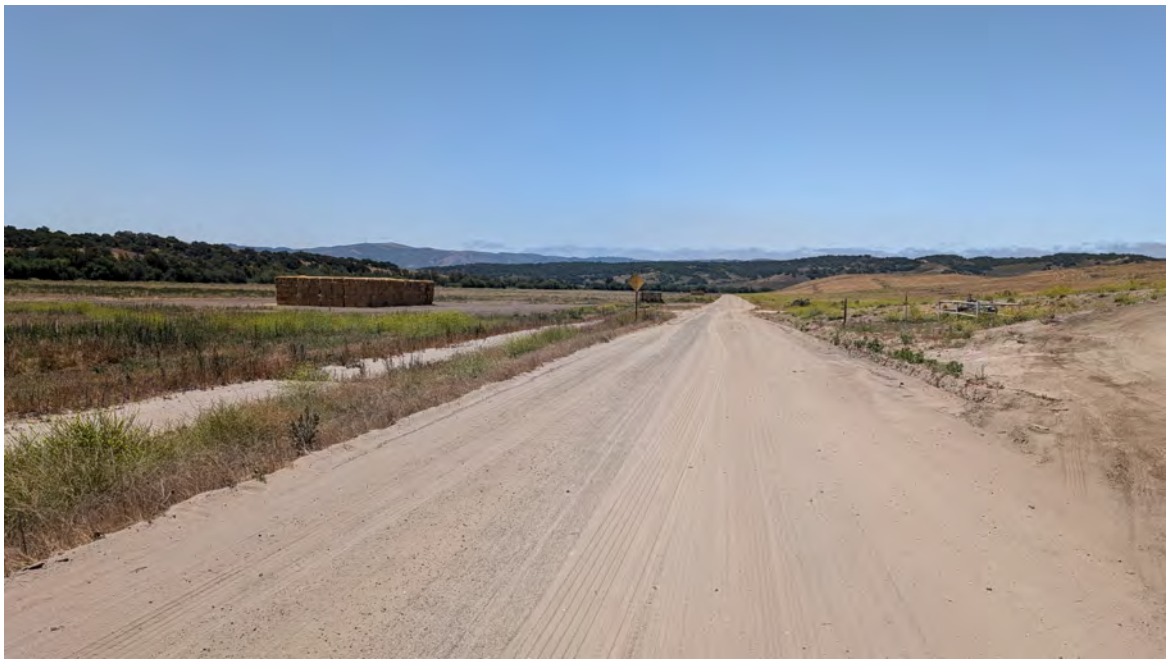
Looking west - Office and Equipment Storage Yard north of Bicknell Road



Looking west - Bicknell Road western entrance gate from Graciosa Road and Highway 135



Irrigation facility in agricultural area adjacent to Bicknell Road



Bicknell Road looking west through agricultural areas.



Agricultural areas are to the north of Bicknell Road



Agricultural areas are to the south of Bicknell Road



Looking east along Bicknell Road within agricultural areas



Looking south at Graciosa Road west end of Bicknell Road.



Looking north from the intersection of Bicknell Road and Graciosa Road.

Phase II Investigation and Remedial Action Plan

Solomon Hills

Santa Barbara County, California

June 27, 2024 **Project: 23-148**

Submitted to: **County of Santa Barbara Environmental Health Services**
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Santa Barbara, CA 93110

On Behalf of: **Solstra Communities California, LLC**
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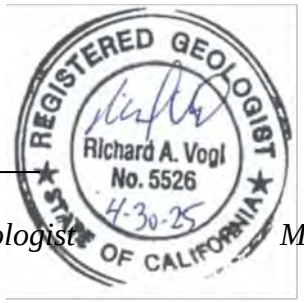
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Phase II Investigation and Remedial Action Plan

Solomon Hills

Santa Barbara County, California

June 27, 2024 **Project: 23-148**



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Executive Summary

Waterstone Environmental, Inc. (Waterstone) has prepared this Phase II Investigation and Remedial Action Plan (RAP) on behalf of Solstra Communities California, LLC (Solstra), owner of the Solomon Hills property in Santa Barbara County (Subject Property), for the remediation of impacts to soil stemming from historical oilfield exploration and production operations. This report summarizes the results of a Phase II investigation and outlines the proposed scope of work and procedures for the remediation of soil impacted with petroleum hydrocarbons and other oilfield impacts to standards suitable for residential development of the Subject Property.

This RAP is submitted to the County of Santa Barbara Environmental Health Services Site Mitigation Unit (EHS or SMU) for review and approval to proceed with soil remediation activities with the ultimate goal of obtaining a 'No Further Action' Letter. Solstra intends to enter into a Remedial Action Agreement under EHS's Voluntary Remediation Oversight Program for regulatory oversight of remediation activities.

The Solomon Hills development is comprised of approximately 1,903 acres on portions of the Newlove and Careaga oil and gas leases in the Orcutt Hills State-Designated oilfield. The proposed development will include up to 4,000 residential units, schools, retail space and offices, a village center, and between 1,000 and 1,200 acres of open space and parks. Portions will also serve as habitat for protected wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park.

Waterstone developed a Phase II scope of work based on a review of previous Phase I and Phase II studies and a site reconnaissance. The scope consisted of the collection and analysis of soil samples from 19 locations to depths from 2 to 30 feet below ground surface (bgs). Soil vapor probes were installed in 10 of the boreholes at depths ranging from 10 to 20 feet bgs. Soil samples were analyzed for one or a combination of the following: TPH, VOCs, SVOCs, Metals, and/or PCBs. Soil vapor samples were analyzed for VOCs by EPA Method 8260B.

In soil, elevated concentrations of TPH and related chemicals of concern were detected at two of the 18 features sampled (11%), or two of the 65 samples analyzed (3%). In soil vapor, elevated concentrations of VOCs were found at those same two plus one additional location. Elevated concentrations of metals were found in two of the 18 features sampled (11%) or two of 23 samples analyzed (9%). Detections of SVOCs were consistent with TPH, with elevated levels at two of 18 features sampled (11%), or two of 23 samples (9%). There were no detections of PCBs in the samples. This current analysis is consistent with previous results on the property over the last 20 years.

To prepare the site for redevelopment, all oil and gas extraction activities and infrastructure within the Subject Property will be permanently abandoned. This will include abandonment of all oil and gas wells and removal of infrastructure including pipelines, tanks, and ancillary equipment and sumps.

The proposed cleanup goals for shallow soil in residential areas are based on the San Francisco Bay RWQCB Environmental Screening Levels (ESLs) which are considered safe for residential receptors, with exceptions made for residual concentrations in non-residential areas and at depths far below final grade.

Soil with petroleum hydrocarbon impacts exceeding cleanup goals will be excavated and either remediated onsite, placed at depth in a proposed commercial lot beneath parking lots or park sites, or disposed of offsite. Confirmation soil samples will be collected for analysis and the results compared against soil cleanup levels and/or used for input into a human health screening risk assessment to show that remediation has been completed to standards suitable for residential land use. Once remediation is complete and EHS approval is issued, the area will be graded for redevelopment. A Soil Management Plan will be prepared to address any areas of soil impacts that might be encountered during grading.

1.0 Introduction

Waterstone Environmental, Inc. (Waterstone) has prepared this Phase II Investigation and Remedial Action Plan (RAP) on behalf of Solstra Communities California, LLC (Solstra), owner of the Solomon Hills property in Santa Barbara County (Subject Property), for the remediation of impacts to soil stemming from historical oilfield exploration and production operations. This RAP outlines the proposed scope of work and procedures for the remediation of soil impacted with petroleum hydrocarbons and other oilfield impacts to standards suitable for residential development in portions of the Subject Property.

This RAP is submitted to the County of Santa Barbara Environmental Health Services Site Mitigation Unit (EHS or SMU) for review and approval to proceed with soil remediation activities with the ultimate goal of obtaining a 'No Further Action' Letter. Solstra intends to enter into a Remedial Action Agreement under EHS's Voluntary Remediation Oversight Program for regulatory oversight of remediation activities.

The Solomon Hills development is comprised of approximately 1,903 acres on portions of the Newlove and Careaga oil and gas leases in the Orcutt Oil Field, located approximately 2.5 miles south of Orcutt, California (see Figure 1).

To prepare the site for redevelopment, all oil and gas extraction activities and infrastructure within the Subject Property will be permanently abandoned. The cleanup effort will include abandonment of all oil and gas wells and removal of infrastructure including pipelines, equipment, tanks, and ancillary equipment. Oil operations are concentrated partially in the western and mostly the southwestern portions of the Subject Property. The eastern and northeastern portions are largely undeveloped and do not have any oilfield operations.

The land associated with the SH Development includes the following Assessor's Parcel Numbers (see Figure 2):

- All of APN 101-020-087
- Portion of APN 101-020-085
- Portion of APN 101-020-086

1.1 Scope and Purpose

Phase II investigations have identified petroleum hydrocarbon impacts in soil resulting from historical oil exploration and production activities at the Subject Property.

To prepare for future redevelopment, oilfield operations are proposed to be shut down and the infrastructure abandoned. Soil remediation is proposed to proceed under the regulatory oversight of EHS for the purpose of obtaining a No Further Action letter.

Soil with petroleum hydrocarbon impacts exceeding cleanup goals will be excavated and either remediated onsite, placed in deep fill areas beneath parking lots or parks, or disposed of offsite.

Confirmation soil samples will be collected for analysis and the results compared against soil cleanup levels and/or used for input into a human health screening risk assessment to show that remediation has been completed to standards suitable for residential land use. Once confirmation samples have achieved acceptable levels and EHS approval is issued, the area will be graded for redevelopment.

1.2 Site Background and Proposed Use

Solomon Hills is comprised of 1,903 acres on portions of the Newlove and Careaga oil and gas leases in the Orcutt Hills State Designated oilfield. The leases are currently operated by Pacific Coast Energy Company LP (PCEC).

General information regarding the Subject Property, including the general site setting, history, current condition, and proposed site use, are summarized in the following sections.

The proposed development will include up to 4,000 residential units, schools, retail space and offices, a village center, and between 1,000 and 1,200 acres of open space and parks. Portions will also serve as habitat for protected wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park. A conceptual site development plan is shown on Figure 3. The development design plan calls for cut depths up to 113 feet and fill depths up to 95 feet from existing grade. A tentative grading plan is included as Figure 4. Earthwork quantities are expected to balance with no significant export or import of soil required.

1.2.1 General Subject Property Setting

The Subject Property comprises approximately 1,903 acres of undeveloped land used for oilfield operations and cattle grazing. It is bounded to the north by undeveloped land and oilfields operations, northeast by Highway 101, to the west by operating oilfield operations, and to the south by open space and ranchland.

The Subject Property is located in the Solomon Hills, which generally trend from east to west. The Subject Property is hilly and rugged. The elevation at the site varies from 1,346 feet above sea level on Mount Solomon to approximately 600 feet above sea level at the northern margin of the site. Graciosa Ridge extends from east to west in the northern portion of the site at an elevation of approximately 1,200 feet above sea level. Surface drainage flows generally to the south and west via Harris Canyon Creek, a tributary to San Antonio Creek, which flows to the Pacific Ocean.

The site has 30 active oil and gas wells, 3 idle wells (1 injection), and 27 plugged and abandoned wells. Two additional wells were canceled, where permits were canceled prior to drilling. A well status summary table is included in Appendix A. Well cellars were typically 5 to 6 feet in diameter and 6 feet deep. Cellars were lined with concrete or corrugated metal culvert piping, with most having concrete bottoms.

1.2.2 General Subject Property History

The site has been used for oil and gas production since the early 1900s and is also used for cattle grazing. The first commercial oil well in the Santa Maria District was constructed in 1901. Annual production increased to 3.7 million barrels (bbl) by 1920. Many wells were shut-in in the 1920s to maintain production in the reservoir. Secondary recovery processes such as gas injection and water flooding were used beginning in the 1950s. Output increased in the 1960s to 2.5 million bbl in 1967 (Harding ESE, 2001).

1.3 Geology

The Subject Property is located in the Solomon Hills, along the northern boundary of the Transverse Ranges geomorphic province, between the Santa Maria Valley and the San Antonio Valley. The Santa Maria Valley forms a northwest-southeast trending wedge that opens toward the Pacific Ocean and is bound by the San Rafael Mountains to the north and the Solomon and Casmalia Hills to the south.

The surficial sediments at the site are Recent and Plio-Pleistocene age stream alluvium underlain by the Paso Robles, Careaga and Sisquoc Formations. The Diatomite formation is a shallow zone approximately 100-900 feet bgs.

At depth ranging from 1,000 to 4,000 feet, the Foxen, Monterey, Point Sal, Lospe, and Knoxville Formations are present. The younger sediments, the alluvium, Paso Robles, and Careaga Formations are composed of unconsolidated to semi-consolidated sands, silts, and clays and are potential aquifers. The older formations, the Foxen, Sisquoc, Monterey, Point Sal, and Lospe Formations are generally composed of siltstones, claystones, and shales and are not potential aquifers (but some formations contain usable quantities of oil and gas).

The Monterey (a fractured dolomitic shale) and Point Sal (shallow marine turbidite sandstone) formations are highly productive, with oil recovery enhanced by waterflood injection.

Structurally, the sediments underlying the site are folded into a series of northwest trending anticlines and synclines, the most prominent of which is the Solomon Anticline, which forms the Orcutt Oilfield.

Additional information regarding soil conditions and seismic considerations are provided in an October 20, 2023 Geotechnical Report prepared by Allan E. Seward Engineering Geology, Inc.

1.4 Hydrogeology

The Subject Property overlies the fringes of the Santa Maria and San Antonio Groundwater Basins – see Appendix B. The significant water bearing formations in the Santa Maria and San Antonio Basins are the Paso Robles and Careaga Formations; the Orcutt Formation and the stream alluvium are too shallow and too low in permeability to yield significant quantities of water at this site. The Paso Robles Formation is composed of gravels, sand, silts and clays and is the primary aquifer in the Santa Maria Groundwater Basin. The Careaga Formation is composed

of fine and coarse sands interbedded with clay and is the primary aquifer in the San Antonio Groundwater Basin. A map showing the groundwater basins in Santa Barbara County is included in Appendix B.

The overall direction of groundwater flow in the Santa Maria Groundwater basin is to the northwest, although groundwater pumping results in locally anomalous flow directions. In the San Antonio Groundwater Basin, the predominant direction of groundwater flow under historical and present-day conditions was from the eastern uplands in the Solomon Hills to the west along San Antonio Creek to the discharge area in Barka Slough, and from the northern uplands in the Casmalia Hills south to San Antonio Creek (USGS, 2022). In 1976, the inferred groundwater flow direction at the Subject Property was toward the north-northwest in the northern portion of the property and to the south-southwest in the southern portion. The depth to first groundwater for the property was not identified, but sparse data held at the Santa Barbara County Water Agency indicated that groundwater levels in this area vary from 317 to 475 feet below ground surface.

The onsite water-bearing formations do not have good sources of potable water. Groundwater quality varies widely within the basins, with total dissolved solids (TDS) ranging from 500 to 3,000 milligrams per liter. Groundwater TDS and nitrogen concentrations generally increase toward the west and also with distance away from the Santa Maria River, which is the primary recharge area.

On the Careaga Lease, perched groundwater can be found in the sands and alluvium in the canyon bottoms during rainy years (Harding ESE, 2001). North of the Subject Property, there is a fault and groundwater is closer to the surface to the north.

The geotechnical soils report notes that the highest depth of measured groundwater in Solomon Canyon just south of the Site is 198 feet. Discontinuous perched groundwater and seeps were encountered at depths from 9 to 60 feet bgs in the alluvial canyons (Allan E. Seward Engineering Geology, Inc., 2023). No groundwater was encountered in environmental soil borings which drilled to a maximum depth of 30 feet bgs.

2.0 Previous Investigations

Previous environmental studies were performed at the Subject Property from 1995 through 2006. Phase I ESAs were performed by Dames & Moore (in 1995), Harding ESE (2001), Tetra Tech (2003), and Waterstone (2004). Phase II Environmental Investigations were performed by ENSR (in 1995) and Waterstone (2006). These studies typically covered the Subject Property as well as additional portions of the Orcutt Oil Field outside the bounds of the Subject Property. Excerpts of Waterstone's Phase II report are included in Appendix C. Copies of previous reports can be made available upon request.

2.1 Waterstone Phase II Investigation, 2006

In 2006, Waterstone performed a Phase II Site Characterization (reported in 2007) where the environmental conditions on over 4,000 acres of the Orcutt Oil Field were evaluated under contract to BreitBurn Energy Co. (BreitBurn, the owner and oil operator in 2007). The purpose of the 2007 Phase II was to evaluate environmental conditions and determine whether remedial action would be required if the oil field were redeveloped.

In total, Waterstone collected soil samples at and adjacent to over 100 oil field features (oil wells, tank farms, sumps, etc.) and laboratory analyses were performed on over 400 soil samples to test for the presence of crude oil and other oil production-related substances. The results of the study indicated that crude oil-related substances (total petroleum hydrocarbons or TPH) were detected at approximately 3% of the features sampled at concentrations that may require some future environmental action.

The proposed Solomon Hills Development area is about half the size of the original 2006 study area and is located on the eastern side of the Orcutt Oil Field, as shown on Figure 3. At the time of Waterstone's sampling activity in 2006, the Subject Property was used for oil production and cattle grazing. There has been no historical use or storage of chemical compounds in the ravines or densely vegetated canyons and they were not inspected by the onsite field scientist nor were they sampled during the 2007 Phase II.

Improvements at the Subject Property and features identified on Figure 5 include oil wells with cellars, pipelines, buildings, storage areas and an aboveground tank, test sites, sumps, and unused water tanks. The following previous reports were used by Waterstone to determine appropriate sampling locations for these features during the 2006 study:

- October 22, 2001, Harding ESE; *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.*
- September 6, 2004, Waterstone Environmental, Inc.; *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.*

The 2007 Phase II identification of sampling locations was based on the features shown on the map (Figure 3) that was generated by Harding ESE in its 2001 report. Waterstone and its subcontracted licensed surveyor (Land Development Consultants of Santa Ana, CA) performed three site visits in 2006 to mark locations and survey features from the Harding ESE map to

identify locations for sampling activities. Sampling locations also targeted areas of oilfield operations where chemical compounds were known or suspected to have been used or stored in the past.

Initially, the Newlove lease was evaluated during the summer of 2006. Two field sampling episodes were performed to evaluate soil near wells, tank farms, compressors, and other oil field features as identified on Figure 5. The first episode targeted primary areas of concern. After receipt of those results, a second sampling episode was performed to provide step-out locations based on the first set of analytical results. The Careaga lease was sampled in December 2006.

Undisturbed soil samples were collected for laboratory analysis using a hand auger or GeoProbe direct-push drill rig. Sampling on the Subject Property area included 24 locations with 70 samples analyzed for one or more of the following:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range)
- Volatile organic compounds (VOCs) by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Title 22 Metals by EPA Method 6000/7000 series

Seven of the 70 samples (10%) analyzed contained TPH concentrations exceeding San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for residential land use (430 ppm gasoline range, 260 ppm diesel range, 12,000 ppm oil range). These TPH thresholds are used to conservatively evaluate what may be considered elevated in terms of risk to a future residential receptor. The samples were located at a former dump site (D-2) on the Newlove Lease and at three oil wells on the Careaga lease (Wells #61, #63, and #78). The same samples contained elevated concentrations of VOCs and SVOCs.

Most samples had no detections of VOCs or SVOCs. Where detected, VOCs and SVOCs were commonly associated with elevated TPH as noted above. Metals concentrations were not detected at concentrations above background levels.

Where oil wells were sampled, soil samples were collected near the well heads. During future abandonment prior to redevelopment, shallow soil within approximately 20 feet around the well head must be excavated so that the well can be accessed. During this excavation, the majority of soil impacted by crude oil should be either remediated onsite, placed in deep fill onsite beneath parking lots or park sites, or hauled offsite.

Based on Waterstone's investigation, the following conclusions can be made:

- TPH has been detected at 10% of the sampled features at concentrations that may require some future action.
- Future property use will dictate the need and scope of any further assessment or remedial activities.

- Impacted soil encountered during abandonment of wells or during other well drilling operations should be addressed under a RAP or procedures to be outlined in a future Soils Management Plan (SMP).

Sampling results are considered biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the site that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for oil exploration/ production or chemical use and storage.

No development occurred at that time and oil production continued much as it has since oil was discovered in the early 1900s.

3.0 Phase II Investigation

This section summarizes the scope of work and results of a Phase II site investigation performed in 2024 to evaluate areas of former and existing oilfield operations. The study targeted areas of oilfield operation on portions of the Newlove and Careaga leases that fall within the boundaries of the proposed Solomon Hills development where active oilfield operations have occurred since the time of the previous Phase II investigation in 2006. Site features targeted for sampling included oil wells, pipelines, tank batteries, production/storage/processing facilities, and historical pits and sumps. Other historical features were previously evaluated during Waterstone's 2007 Phase II investigation.

3.1 Development of Sampling Plan

Waterstone reviewed the scope and results of previous sampling events as they relate to active oilfield operations to identify those areas where updated sampling was appropriate. Nine locations sampled in 2006 were targeted for updated sampling. A review of previous Phase I and Phase II studies and a site reconnaissance were also performed to identify additional features to target for sampling. The sample locations, depths, and laboratory analyses performed are outlined in Table 1.

3.2 Pre-Field Activities

Prior to conducting field sampling activities, the following pre-field tasks were completed:

- Arrange for access with owner/operator.
- Preparation of a site-specific health and safety plan in accordance with OSHA 29 CFR 1910.120.
- Performed a site reconnaissance and field inspection to identify and mark each location with white paint or stakes and ribbon as required by Underground Service Alert (USA). USA was notified of drilling and sampling activities a minimum of 72 hours in advance.
- Prepare subcontracts for subcontractors.
- Attend safety meeting at PCEC field office.

3.3 Field Sampling and Analysis

3.3.1 Clearance for Subsurface Conflicts

Before drilling with mechanized equipment, a geophysical survey was performed to scan the sampling areas for indications of subsurface pipelines or other utilities. The locations were also checked by PCEC personnel for potential conflicts with underground infrastructure. Sample locations were adjusted as needed to avoid subsurface conflicts.

3.3.2 Drilling, Soil Sampling, and Vapor Probe Installation

Drilling, soil sampling, and vapor probe installations were performed on January 30 and 31, 2024 by Millennium Environmental, Inc. using a Geoprobe direct push drill rig. Each location was hand-augered to a depth of at least five feet for utility clearance purposes.

Soil samples were collected from 19 locations using either a hand auger and drive sampler (for samples at depths in the upper five feet) or direct push drill rig for depths from 5 to 30 feet below ground surface (bgs). The sample locations, IDs, and depths are outlined in Table 1. The locations are shown on Figures 6A and 6B. Field sampling protocols are included in Appendix D.

Soil samples for analysis were collected at select depths, typically in five foot intervals beginning at 5 feet bgs. Shallower samples were collected at aboveground features like equipment storage areas and aboveground pipelines.

The soil was logged by a field geologist working under the supervision of a California-registered Professional Geologist and screened in the field using a hand-help photo ionization detector (PID) for the presence of volatile compounds.

Soil vapor probes were installed in 10 of the boreholes at depths ranging from 10 to 20 feet bgs. Single-depth probes (at 10 feet bgs) were installed at four locations and dual-depth probes (10 feet and 15 feet, or 10 and 20 feet bgs) at six locations. A vapor point was installed at each target depth with tubing extending to the surface. Each probe was constructed of ¼-inch diameter Nylaflow tubing with an attached porous vapor inlet filter. Each probe was housed in a sand filter pack consisting of clean, kiln dried #2/12 Monterey sand extending six inches below and six inches above the depth of the vapor point. The filter pack was topped with a seal of dry bentonite followed by conservatively hydrated bentonite up to the bottom of the next probe filter sand pack. Each separate tube was labeled at the surface indicating the depth of the vapor point to which it is attached. The probes were abandoned after sampling by removing the tubing and upper portion of the borehole and plugging the borehole with bentonite.

Equipment was decontaminated between boreholes and prior to the collection of each sample. The small amount of excess soil cuttings were placed on existing stockpiles of soil in the oilfield under the Central Coast RWQCB's beneficial reuse policy (General Order No. R3-2020-0006).

3.3.3 Laboratory Analysis of Soil Samples

Soil samples were submitted under proper chain of custody to Enthalpy Analytical, an ELAP-accredited analytical laboratory located in Orange, California and selectively analyzed for the following:

- Total Petroleum Hydrocarbons (TPH) – carbon chain identification by EPA Method 8015M;
- VOCs by EPA Method 5035/8260B;

- Semi-Volatile Organic Compounds (SVOCs) or Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C/SIM;
- Title 22 Metals by EPA Methods 6010B/7471A; and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082

Select samples were archived and held at the laboratory for potential add-on analysis based on the initial results. This included analysis of deeper samples to delineate the vertical extent of contamination or for other analytes such as metals or SVOCs where elevated concentrations of TPH were found. Solubility testing (by Waste Extraction Test [WET] and/or toxicity characteristic leaching procedure [TCLP] analyses) were performed where concentrations exceeded rule of thumb thresholds for determination of hazardous waste.

3.3.4 Soil Vapor Sampling and Analysis

Soil vapor sampling and analysis were performed on January 31, 2024 by Jones Environmental Laboratories. Each probe was purged, sampled, and soil gas sample collected for laboratory analysis. The samples were immediately transferred to a mobile analytical laboratory for analysis of VOCs by EPA Method 8260B.

Soil vapor sampling activities were performed in accordance with the July 2015 California Environmental Protection Agency (DTSC/Los Angeles and San Francisco Bay Regional Water Quality Control Board's) Advisory for Active Soil Gas Investigations (*Advisory*). Field protocols and equipment information are included in Appendix D.

3.4 Findings

This section summarizes the field observations and laboratory results of soil and soil vapor analyses.

3.4.1 Soil Conditions

Soils encountered in the borings consisted primarily of silt with sand, fine to medium grained sand, and silty sand. Clay and gravels were observed in several borings. No groundwater was observed in any of the borings, drilled to a maximum depth of 30 feet bgs. Boring logs are included in Appendix E.

Visual petroleum staining, petroleum odors, and/or elevated PID readings were noted in three borings (CL-W-63, CL-W-77, and CL-W-78).

3.4.2 Laboratory Results

3.4.2.1 Soil

Laboratory results for soil samples are summarized in Tables 2, 3, and 4. Laboratory reports and chain of custody documents are included in Appendix F.

Two of the 65 soil samples (3%), at two of 18 site features sampled (11%) analyzed for TPH exceeded the residential screening level for TPH-diesel range organics (DRO) of 260 milligrams per kilogram (mg/kg) (at CL-W-63 and CL-W-78).

VOCs were detected in five of the 34 samples (15%) analyzed, at four of 18 site features sampled (22%), with concentrations exceeding residential regulatory screening levels in only one sample (CL-W-78-20).

Of the 23 samples analyzed for metals, one sample (4%) or one of 18 features sampled (6%) (CL-W-60-10) contained arsenic slightly above published background concentration at 13 mg/kg, and one sample (CL-W-74-10) contained elevated cadmium at 56 mg/kg, but below the screening level. Sample CL-W-74-10 was additionally analyzed for WET/STLC and TCLP for cadmium, and the results were below hazardous waste thresholds.

Detected SVOCs/PAHs exceeded residential screening levels in one of the 23 samples (4%), or one of 18 site features (6%) analyzed (CL-W-63-20). The detections generally correlated with those samples having elevated TPH concentrations.

In the two samples analyzed for PCBs, none were detected.

3.4.2.2 Soil Vapor

Soil vapor results are summarized in Table 5.

In soil vapor, elevated concentrations of VOCs were detected in three of 10 locations (30%) or three of nine features sampled (33%); CL-W-63, CL-W-78, and CL-TH1. This is consistent with the soil results at CL-W-63 and CL-W-78 where elevated concentrations of petroleum hydrocarbons were also detected, but no VOCs were detected in soil at boring CL-TH1.

The soil vapor results were converted to theoretical indoor air concentrations using the following attenuation factors:

	CalEPA, 2023	CalEPA, 2011
Future Residential Building	0.03	0.001

While many results exceed screening levels using the 0.03 AF, many in the regulated community view this AF as unreasonable and not supported by data representative of conditions in California. The 0.03 AF in the 2023 Supplemental Guidance relies on an outdated environmental data set collected predominantly from east coast and Midwest properties with colder climates, coarse soil conditions, subterranean building designs with basements and open foundations, and average building ages exceeding 80 years, all factors that increase the rate of vapor intrusion. Most of the data set was developed from studies performed at residential buildings. The Guidance does not consider published California-based data collected by the DTSC and other investigators that better reflect vapor intrusion potential at California sites.

The theoretical indoor air concentrations were compared against published agency standards including Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office

(HERO) Note 3 Commercial Screening Levels ("DTSC-SLs") dated May 2022, San Francisco Bay RWQCB ESLs dated 2019, and United States Environmental Protection Agency (USEPA) Commercial Regional Screening Levels (RSLs) dated November 2023.

These locations with exceedances of health screening levels in soil and soil vapor will be excavated prior to redevelopment of the Subject Property as outlined in the following sections of this document.

4.0 Remedial Action Plan

This section details the proposed scope of work for the remediation of soil impacted by historical oilfield operations.

4.1 Remedial Action Objectives

Site soils found to be impacted with chemicals of concern (COCs), including TPH, VOCs, and PAHs/SVOCs, will be targeted for excavation and either remediated onsite, placed at depth onsite in a proposed commercial use area beneath parking lots or park sites, or transported offsite for disposal, with the objective of achieving regulatory closure and approval for unrestricted use and residential redevelopment.

4.2 Additional Site Characterization

Investigations and sampling performed to date have identified several areas with impacts to soil by petroleum hydrocarbons which will require remediation. These provide a baseline and representative sample of soil impacts across the Subject Property. However, because sampling was not performed at every well site or every potential area of concern, the remaining areas will be investigated prior to and/or in conjunction with oilfield abandonment activities. Proposed sampling activities are outlined below. The results of these samples will be used to identify additional areas requiring remediation.

4.3 Well Abandonments and Removal of Oilfield Infrastructure

Site remediation will be performed in conjunction with abandonment of oilfield operations and removal of oilfield infrastructure. This will include the abandonment of active oil/gas wells, idle wells, and re-abandonment of previously abandoned wells. Other tasks will include the removal of well pads, aboveground and underground piping, aboveground storage tanks, processing equipment such as separators, test headers, condensate blowdown traps, and historical sumps/mud pits. Asphalt and oiled roadways and containment berms will also be removed, but Orcutt Hill Road will remain.

Abandonment of oil/gas wells and removal of oilfield facilities and infrastructure will be performed by qualified licensed contractors in accordance with the requirements of Santa Barbara County Fire Department – Fire Prevention Division (SBCFD) and California Department of Conservation - Geologic Energy Management Division (CalGEM). Where oil wells are located in proposed deep fill areas, the well casings will ultimately be extended upward to near the finish grade surface. Where wells are in cut areas the well casing will be lowered and cut below finish grade. A listing of the wells with proposed cut/fill depths is provided in Appendix A.

An environmental professional will be present during this process to perform the following tasks:

- Oversee soil excavation and soil disturbances,

- Monitor soil for indications of impacts,
- Identify and locate features of environmental significance,
- Identify areas requiring remediation,
- Direct the segregation of impacted soil as needed,
- Perform air monitoring,
- Identify areas for sampling,
- Collect soil samples for laboratory analysis, and
- Document the work performed, field observations, mapping, findings, and results.

The coordinates of each well casing will be surveyed and setbacks will be maintained in accordance with CalGEM standards.

Much of the abandonment and decommissioning process will involve excavation of soil. This will include such tasks as removal of well cellars, excavating around wells to expose the well casing, and removal of underground piping. This will provide an opportunity to identify and target areas of concern for sampling and remediation. Confirmation samples will be collected as outlined below.

Given that historical sumps/mud pits were not clearly visible in historical aerial photographs, abandonment activities on and around the well pads will provide an opportunity to monitor the soil for evidence of impacts from historical mud pits. Post-remediation monitoring will also occur in accordance with a Soil Management Plan (SMP).

Field indications of impacts to soil include visual discoloration and staining, petroleum odors, and elevated readings on hand-held PID field instruments. Drilling fluids or drilling mud in former pits may exhibit a light blue/gray or tan color and have a gel-like consistency or that of heavy clay.

4.4 Cleanup Goals

Initial cleanup goals for shallow soil in residential areas will be based on published regulatory screening levels primarily from the San Francisco Bay RWQCB Environmental Screening Levels (ESLs) considered safe for residential human health (direct exposure to shallow soil) as outlined below:

- TPH-gasoline range: 430 mg/kg
- TPH-diesel range: 260 mg/kg
- TPH-oil range: 12,000 mg/kg
- VOCs: SF Bay RWQCB ESLs
- PAHs/SVOCs: SF Bay RWQCB ESLs
- Metals SF Bay RWQCB ESLs

For compounds not listed in the ESLs, screening levels in DTSC HERO HHRA Note 3 and US EPA Regional Screening Levels (RSLs) will be used. These cleanup goals would apply areas where the existing grade is similar to proposed final grade. One exception for metals is arsenic, a metal which commonly exceeds risk-based thresholds at ambient background concentrations. Therefore, the cleanup goal proposed for arsenic is 12 mg/kg, a commonly accepted published background concentration (Chernoff, 2001; DTSC HERO HHRA Note No. 11, 2020; Kearney, 2001).

The residential ESLs will be used as the first criteria during remediation activities performed in proposed residential areas at shallow depths (less than 10 feet) as compared to the post-development grading condition. Due to the hilly nature of the Subject Property, significant amounts of cut and fill (up to 95 feet) are anticipated in many areas.

Where residual concentrations might remain after remediation, the risk to human health will be evaluated on a case by case basis. Examples where less stringent cleanup levels might be appropriate include the following areas/scenarios where there are reduced exposures to residential receptors:

- Areas beneath deep fill of more than 10 feet. Fill placement is proposed over a large portion of the area where oilfield operations are currently occurring, with fill depths up to 95 feet. Such areas would be capped by a park site or parking lot, and away from buildings.
- Non-residential (i.e. commercial/industrial) areas. Approximately 41 acres are proposed for commercial use. One proposed commercial area in particular, Planning Area 'PL-O', on the eastern edge of the project near Highway 101, is proposed to be used for the placement of impacted soil in deep fill (see Section 4.9), away from proposed buildings and capped by asphalt parking lots or areas of concrete.
- Open space areas where former/existing oilfield operations fall outside the bounds of the area proposed for development. This occurs mainly along the western, southwestern, and southern margins of the Subject Property. In total, approximately 1,219 of the 1,903 acres are proposed as open space.

If residual concentrations of COCs remain after excavation and remediation activities, a site-specific evaluation of risk will be performed. This would include an evaluation of exposure pathways and potential risk to future receptors based on the proposed development in that area. For example, where deep fill is proposed, the exposure pathways of dermal contact and ingestion would be eliminated. Assurances would be made that soil containing residual impacts is also deep enough to limit exposures to future construction of maintenance workers. The development plan calls for cut depths up to 113 feet and fill depths up to 95 feet from existing grade, and these grade changes will play a significant role in potential exposures to future residential receptors.

Where elevated concentrations of VOCs are present in soil vapor, concentrations of residual petroleum hydrocarbons in source areas will also be evaluated in accordance with Attachment 2 of CalEPA's 2023 Supplemental Vapor Intrusion Guidance (2023 Guidance). The 2023 Guidance notes that the vapor intrusion risk from petroleum hydrocarbons is often reduced by biodegradation which occurs under common conditions where oxygen is present in the soil. For

example, when oxygen content is greater than 4%, a bioattenuation factor of 0.001 is applied in calculating theoretical indoor air concentrations. This results in reducing the calculated indoor air concentration by three orders of magnitude. Separation distance also plays a large role in such an evaluation, and this condition will exist across much of the site by the placement of significant depths of clean fill soil.

4.5 Identification of Remediation Areas

Based on the results of soil and soil vapor sampling performed to date, the following five of 35 unique locations (14%) have been found to contain elevated concentrations of petroleum hydrocarbons and COCs in excess of the proposed cleanup goals and are expected to require remediation (estimated depth in feet bgs):

- Newlove Former Dump Area D-2 (25')
- Careaga Well 61 (7')
- Careaga Well 63 (22')
- Careaga Well 78 (22')
- Careaga Test Header TH1 (12')

These areas are highlighted in yellow on Figure 6. The vertical extent of impacts to soil is generally well-defined at each area, extending to depths between 20 and 25 feet bgs. The lateral extent is less defined, but impacts should decrease with distance from the source, presumed to be the feature targeted for sampling.

The findings confirm those of the 2006 Phase II, that for an operating oilfield, it is relatively clean.

The sampling is considered to be biased because all sampling occurred in known or suspected areas of oilfield operations and former chemical use and storage. Many areas of the Subject Property that have steep slopes or dense vegetation were not sampled because they are not known to have ever been used for oil exploration/production or chemical use and storage.

4.5.1 Volume Estimates

Estimated volumes of materials requiring removal or remediation were developed based on the results of past and current studies, and assumptions for each of the various oilfield feature types. The final volumes for certain features may be more, while others may be less. But this is considered a reasonable overall volume estimate based on the findings and assumptions outlined herein. A conversion factor of 1.5 was used to convert cubic yards (cy) to tons. A summary of volume estimates is provided in Table 6. Using the methods outlined herein, the total estimated volume of impacted material requiring remediation is 13,743 cy, or 20,614 tons, which includes a 10% contingency.

Oil Wells

Not counting the two canceled oil wells, there are 60 oil wells (30 active and 30 plugged) on the property. The wells were separated into various categories based on the proposed site use and post-development grade differential.

Oil Well Locations in Site Plan

a. 19 Wells (31%) are located outside Development Pads
b. 18 Wells (29%) are located in Open Space lots in Planning Areas
c. 13 Wells (23%) are located in Open Space HOA-owned slope lots
d. 12 Wells (19%) are located in Private Roads HOA-owned

Post-Development Grade Differential

a. 12 Wells (Cut pads of 10 feet or greater)
b. 13 Wells (Cut or fill within 10 feet existing elevation)
    i. 5 Open Space Lots in Planning Areas
    ii. 4 Open Space HOA-owned slope lots
    iii. 4 Private Roads HOA-owned
c. 18 Wells (Fill Pads of 10 feet or greater)
d. 19 Wells (No grading outside Development Pads)

While impacts warranting remediation were only found at three of the 22 wells sampled (14%) during the 2006 and 2024 studies, to be conservative, it is assumed that 25% of the wells will require some degree of remediation. An average volume was based on an inverted cone-shaped excavation during abandonment/re-abandonment activities with a depth of 12 feet and surface radius of 20 feet from the well. This equates to 15 wells with 186 cy each, or 2,791 cy, or 4,187 tons.

Sumps

No sumps were identified during past studies, but it is assumed a certain number of former sumps will be encountered and require remediation. Based on a count of 60 wells it is estimated that sumps will be identified at 10 wells and have dimensions of 25 feet by 25 feet by 7 feet deep, or 1,620 cy, or 2,431 tons.

Tank Batteries

There are three known former/existing tank batteries on the Subject Property. While no impacts were found at the two that were studied, a certain volume of impacted soil requiring remediation is anticipated to be encountered while abandoning these features or excavating soil in these areas. Assuming soil impacts for each with dimensions of 75 feet by 35 feet and 5 feet deep, this equates to volume of 1,458 cy, or 2,188 tons.

Asphalt Roadways

Based on site inspections and survey data, it is estimated that approximately 184,000 sf of asphalt roadways are present throughout the Site, not including Orcutt Hill Road which is proposed to remain. Assuming a thickness of 4 inches, this equates to a volume of 2,272 cy of asphalt material, or 3,407 tons.

Oilfield Piping and Pipe Corridors
Most of the piping in the field is aboveground. Steel piping and related equipment will be removed and transported to PCEC's Orcutt Hills facility. Soil impacts along pipeline corridors is estimated at 2,000 linear feet in total, 10 feet wide, and 4 feet deep, 2,963 cy, or 4,444 tons.

Former Dump Areas
Two former dump areas are known to exist on the Subject Property, one of which was found to have soil impacts that may require remediation. This dump area is outside the bounds of the area of proposed development, but its volume is estimated at 25 feet square and 10 feet in thickness, 231 cy, or 347 tons, with a significant volume of clean overburden.

4.6 Soil Excavation and Removal

This section presents the various tasks that comprise the remedial action plan for the Subject Property.

4.6.1 Site Mobilization/Pre-field Activities

Mobilization activities to be completed prior to initiating remediation activities are designed to establish the framework for on-site work during remediation for the purpose of avoiding delays and ensuring worker safety during work on the Subject Property. Pre-field activities include:

1) Preparing a Health and Safety plan;
2) Securing the site and controlling site access;
3) Clearing and grubbing of brush and debris;
4) Conducting utility clearances;
5) Obtaining necessary permits including grading/stockpile permits and notifications to Air District, Santa Barbara County Fire Department, and CalGEM;
6) Prepare a Stormwater Pollution Prevention Plan (SWPPP) for submittal to the Regional Water Quality Control Board;
7) Evaluating excavation areas and volumes for the purpose of identification of and preparing soil stockpile staging areas and determining the optimal sequence of excavation activities;
8) Coordinate with the disposal facility for approvals and scheduling receipt of the waste soil to be shipped; and
9) Surveying of excavation areas.

Following are details of pre-field activities to be performed.

4.6.1.1 Health and Safety Plan

A site-specific Health and Safety Plan (HASP) will be prepared for all onsite remediation work activities. The purpose of the HASP is to describe the controls and procedures that will be

implemented to minimize incidents, injury, and health risks associated with the excavation activities to be conducted at the Subject Property. The HASP incorporates the requirements specified by OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER, 29 CFR 1910.120 and CCR Title 8).

According to 29 CFR 1910.120, general site workers (such as equipment operators, general laborers, and supervisory personnel) engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances and health hazards should be certified to have received a minimum of 40 hours of instruction off the site, and a minimum of three days actual field experience under the direct supervision of a trained, experienced supervisor. Such workers should also receive eight hours of refresher training annually.

Field personnel will review the HASP prior to commencing field work. A daily tailgate safety meeting will be conducted to identify potential physical and chemical hazards and outline measures to be taken in event of an emergency. All on-site personnel will be required to document their attendance at the tailgate safety meeting by signing a form before work each day.

During field activities, appropriate personal protective equipment (PPE) will be worn by all personnel within designated exclusion zones. Typical PPE is expected to include a high-visibility safety vest or shirt, hardhat, long pants, long sleeves, eye protection, gloves, and steel-toed boots.

The concentration of VOCs present in the worker breathing zone will be monitored in the field on a regular basis using a photoionization detector (PID) or equivalent as required by the HASP. Breathing zone monitoring will dictate whether more protective PPE, such as a respirator, is required or if work in a particular area should stop.

This oilfield is known to contain hydrogen sulfide (H_2S) gas, so workers should undergo proper training to become familiar with working safely in an area with H_2S hazards, be aware of evacuation procedures, and take all necessary precautions. The risk from H_2S should decrease once oilfield operations stop and all wells are plugged.

4.6.1.2 Utility Clearance

Prior to commencement of field activities, Underground Services Alert (USA) will be notified of the intent to conduct excavation activities and prior to the initiation of any intrusive subsurface work. A USA ticket number for the project will be kept current throughout excavation activities to be performed. All proposed locations of subsurface disturbance with mechanical equipment will be clearly marked with white paint or flagging as required by USA. USA will contact all utility owners of record within the site vicinity and notify them of the intended excavation activities. All utility owners of record, or their designated agents, are expected to clearly mark the position of their utilities on the ground surface throughout the area designated for excavation.

If necessary, a geophysical survey will be conducted by an independent subcontractor to help identify subsurface lines and obstructions using methods such as magnetometer and ground penetrating radar. These technologies are often used to identify underground tanks, drums, and conduits.

4.6.1.3 Permitting

Santa Barbara County Building and Safety Division – Land Use and Grading Permit
Land Use, Grading and Stockpile permit applications to complete the earthwork elements for the Solomon Hills project will be completed and submitted to the Santa Barbara County Planning and Development – Building and Safety Division (SBCBD). The final Land Use Permit and Grading Permit are to be issued by SBCBD for site grading activities.

Santa Barbara County Air Pollution Control District
The estimated volume of impacted soil to be removed over the course of the project is expected to exceed 1,000 cubic yards and will require the completion of SBCAPCD's Soil Excavation Permit Application Form -07C prior to initiating remediation activities. SBAPCD may also require the preparation and submittal of an Air Quality Monitoring Plan (AQMP).

Storm Water Pollution Prevention Plan
Regulations provide that discharges of storm water to waters of the United States from construction projects that encompass one (1) or more acres of soil disturbance are effectively prohibited unless the discharge is in compliance with an NPDES Permit. The proposed excavation and grading to be conducted on the Subject Property involve the disturbance of greater than 1 acre of soil; therefore, a Storm Water Pollution Prevention Plan (SWPPP) is expected to be needed for this project.

County of Santa Barbara Energy, Minerals, and Compliance Division and CalGEM
Permits will be procured for abandonment of oil wells and removal of oilfield-related infrastructure as necessary.

4.6.1.4 Notifications

Public notifications of the commencement of remediation activities will be completed during the land use and grading permitting process and will comply with applicable noticing requirements. Other notifications will include:

- Adjacent landowners will be notified 30 days prior to remediation activities.
- SBCAPCD will be notified 7 days prior to field activities, allowing them to make an initial site visit to observe site operations and to confirm the air monitoring program is being implemented.
- EHS will be notified at least 48 hours prior to initiating field activities.
- SBCBD grading inspector will be notified 48 hours prior to field activities to make a site visit and observe grading activities.
- CalGEM and County of Santa Barbara Energy, Minerals, and Compliance Division.

4.7 Excavation Activities

Soil excavation activities will be performed by qualified and licensed contractors under the oversight of an environmental professional field manager as follows:

- Mobilization and staging of equipment.
- Removal and stockpiling of clean overburden soil.
- Excavation of impacted soil, including air monitoring.
- Loading, transport, and disposal of soil at an appropriate licensed facility.

Excavations will be completed in a sequence according to the schedule for various field activities onsite and may change depending on field work being performed that day/week by other crews re-abandoning oil wells and removal of oilfield infrastructure.

The sections below describe how different material types will be managed during remediation activities.

4.7.1 Clean Overburden

Initially, any "clean"[1] overburden that exists will be removed from the top of each excavation area. Overburden is typically present at shallow depths and overlies deeper impacted soil that requires remediation. An initial determination of overburden will be based on laboratory analysis or on the absence of visual, odor, and field instrument measurement indications of impact. Such soil will be managed as follows:

1. Segregated overburden soil that is considered clean will be stockpiled separately near each excavation.
2. Each clean overburden stockpile will be measured and the volume estimated.
3. Samples will be collected for analysis from each stockpile of overburden material. The total volume of overburden will be used to determine the appropriate number of samples to be collected to confirm that the soil is appropriate for re-use as part of the grading at the Subject Property. Sampling frequencies will generally follow DTSC's 2001 Clean Imported Fill Advisory.
4. Samples will be analyzed for TPH-CCID by EPA Method 8015B and for VOCs by EPA Method 8260B.
5. If results confirm concentrations of COCs are below site cleanup goals, the soil will be utilized as part of site grading operations. If concentrations exceed site cleanup levels, the soil will be transported offsite for disposal.

[1] "Clean" overburden is soil that has no appearance or odor that indicates impact by chemical compounds; however, confirmation sampling will be performed to ensure it can be reused onsite.

4.7.2 Impacted Soil

Impacted soil with concentrations exceeding cleanup goals will be excavated and managed by one of several methods outlined herein, and either remediated onsite, placed in deep fill or beneath commercial areas capped by parking lots away from buildings, or transported offsite for disposal. The final depths and dimensions of excavations will depend on the extent of soil impacts discernable by field observations and ultimately by the results of confirmation samples.

Excavation activities will be directed by the environmental professional as follows:

- A licensed surveyor will stake all previous sampling locations requiring remediation.
- Excavation will typically begin at the location of previous sample point known to exceed site cleanup goals. These areas displayed noticeable discoloration and odor during site investigation sampling; therefore, the visual/odor impact that exists at these borings may be used as an indication of soils that need to be removed.
- Excavation will continue until soil becomes noticeably cleaner based on observations of discoloration, staining, odor, and VOC measurements using a PID field instrument or equivalent.
- When the environmental professional has determined that impacted soils have been removed, excavation will stop and confirmation samples will be collected. Confirmation samples will be collected according to the protocols provided below.
- The results of confirmation samples will be compared against site cleanup goals to determine whether additional removals are required. If excavations grow to unreasonable sizes or access constraints are encountered, the results will be further evaluated for site-specific health risk.
- Impacted soil will either be remediated onsite, placed in deep fill or beneath commercial areas capped by parking lots away from buildings, or loaded into end dump tractor trailers for transport to an off-site approved landfill.

The results of confirmation soil samples that represent soil remaining onsite will be used to verify that remediation of the site meets the health risk standards for a residential scenario.

If initial confirmation samples indicate that any remaining soil does not meet the residential standards, additional soil will be excavated to remove those areas that present an unacceptable risk. Confirmation samples will be collected from the extended or deepened portions of the remediation area and again compared against the site cleanup goals. This is an iterative process that will continue until the entire confirmation sample set is included in the HHSE calculation and the cancer risk and noncancer hazard is considered safe and acceptable for a residential scenario. At this point, remediation will be considered complete.

4.7.3 Debris

Debris generated as a result of the excavation and soil handling activities will be segregated as much as possible. If needed, a screening device may be used to screen out larger debris pieces

that will be stockpiled and transported offsite to be disposed of at an appropriate facility. Debris anticipated includes timbers, concrete and piping. Piping/steel will be shipped to PCEC at their neighboring Orcutt Hills facility, or transported to a local scrap facility. If quantities are sufficient, concrete debris may be crushed onsite for recycling and used as road base or repurposed for other onsite re-use as allowed by Santa Barbara County and CalGEM.

4.8 Confirmation Sampling and Analysis

This section outlines the collection and analysis of confirmation samples to determine when excavation has effectively removed soils with impacts exceeding site cleanup goals.
Three types of confirmation samples will be collected and analyzed. Sampling protocols are included in Appendix F. Confirmation samples will be collected from clean overburden to ensure that it is appropriate for re-use onsite.

4.8.1 Excavation Samples

Confirmation samples will be collected from the bottoms and sidewalls of remedial excavations to ensure that impacted soil has been effectively removed. Samples will be collected as summarized below:

- Excavation sidewall samples (laterally) – one per 40 linear feet of sidewall, minimum of four for square-shaped excavations. At cone (round)-shaped excavations at oil well casings, a minimum of three sidewall samples will be collected.
- Excavation sidewall samples (vertically) – one per 15 feet of depth, generally mid-depth.
- Excavation bottom samples – one every 30 by 30 square foot area.

The number of samples will increase when dimensions grow beyond the thresholds noted above.

Excavation confirmation samples will be analyzed as follows:

- TPH carbon chain (C8-C44; GRO, DRO, ORO) by EPA Method 8015M; and
- VOCs by EPA Method 8260B.

In new areas of impact not previously characterized, or where an area of impacts is proposed to be left in place, at least one sample will also be analyzed for:

- PAHs by EPA Method 8270C SIM;
- Title 22 Metals by EPA Method 6010B/7471A

4.8.2 Clean Overburden Samples

Samples will be collected from clean overburden soil to determine whether it can be re-used onsite. Sampling frequencies will be in general accordance with DTSC's 2001 *Advisory for Clean Imported Fill* and will be analyzed for:

- TPH carbon chain (C8-C44; GRO, DRO, ORO) by EPA Method 8015M; and
- VOCs by EPA Method 8260B.

Additional analyses will be performed if other COCs were found in the AOC from which the overburden was generated, e.g. PAHs or metals.

Results will be compared against site cleanup goals or used to update the site-specific risk assessment.

4.9 Soil Handling, Profiling, Transportation and Disposal

Excavated soil not immediately loaded into trucks will be temporarily stockpiled onsite. At the end of each work day, stockpiles of odorous of discolored soil will be covered with plastic sheeting secured with sand bags.

The first preference for impacted soil is to retain it onsite, but relocate it, and place it at depth (greater than 10 feet below final grade) in Planning Area 'PL-O', a proposed commercial lot at the eastern edge of the project near Highway 101, beneath paved parking lots, or beneath park sites. This lot has a net import volume requirement of 335,000 cy and fill depths up to 30 feet. This will minimize the impact of truck trips that would otherwise be needed to transport the material to offsite landfills, many of which are over 100 miles away. This may require approvals by other agencies, such as Regional Water Quality Control Board, or trigger development restrictions for this particular lot. The location and elevation of impacted soil placed onsite or remaining in place will be surveyed and documented in environmental reports filed with government agencies.

Where offsite transport and disposal of impacted soil is necessary, the soil will be disposed of at a properly licensed and permitted landfill facility or other licensed acceptance facility. All transportation activities will be performed in strict compliance with applicable regulations and ordinances. The selected transportation company will be certified as a hazardous waste hauler, permitted to haul contaminated waste material if dictated by the concentrations of chemicals in the soil determined through waste profiling. All Department of Transportation safety regulations will be strictly followed. The facility of preference depends on a number of factors such as distance, acceptance criteria, and costs. Below is a list of potential disposal facilities and distances from the Site:

- Santa Maria Regional Landfill – (non-haz soil). The facility's non-hazardous hydrocarbon-impacted soils (NHIS) program has been temporarily suspended, but is expected to resume next year - 13 miles from the Site.
- Waste Connections' Cold Canyon Landfill, San Luis Obispo (non-haz soil) – 31 miles.
- Waste Management's Simi Valley Landfill (non-haz soil) – 135 miles.
- Waste Connections' Chiquita Canyon Landfill (non-haz soil) – 136 miles.
- Waste Management's Kettleman Hills Facility (hazardous waste) – 121 miles.
- Waste Management's McKittrick Waste Landfill (hazardous waste) – 110 miles.
- U.S. Ecology, Beatty, NV (hazardous waste) – 365 miles.

Field managers will track the manifest paperwork for each truckload of material that is transported offsite. Weight tickets and final manifests for material disposed offsite will be included in the final RAP completion report.

4.10 Option for Soil Treatment via Bioremediation

Given the ample space and duration of this project, bioremediation may be an appropriate and acceptable method for treating the soil to reduce the concentrations of petroleum hydrocarbons to acceptable levels so that the soil can be re-used onsite. This option would minimize the need for offsite transport and trucking, thereby reducing the impacts of the project in terms of truck trips, emissions, and landfill capacities.

Approvals and permits would be required from both EHS and other regulators such as the RWQCB and SBAPCD. Treatment operations, re-use criteria, testing, monitoring, and reporting would be performed in compliance with applicable permits and regulatory approvals.

Soil with petroleum hydrocarbon impacts would be placed in designated treatment areas for regular tilling, watering, and conditioning to establish and maintain optimal conditions for the biodegradation of hydrocarbons. The soil would be regularly plowed and/or disced to break up any clumps and to introduce and maintain optimal oxygen levels. Moisture conditioning and additives such as bacteria and enzymes would be incorporated as appropriate to facilitate the process. The soil would be treated in lifts with a thickness of approximately 18 inches. Upon achieving approved re-use criteria as determined by confirmation sampling, the top lift would be removed and placed in an appropriate portion of the Site as engineered compacted fill, then the process repeated. Soil removals and final placement would be documented by field survey. Based on the levels achieved, there may be restrictions on how and where the soil could be re-used. For example, it might be placed beneath roadways, in commercial lots beneath parking lots, or beneath park sites.

Treatment areas would be constructed with containment berms to prevent stormwater run-on and run-off, and would be lined with plastic if necessary.

If desired, a bench-scale study might be performed to evaluate the efficacy of this option.

4.11 Grading Operations

Grading and design plans for the Solomon Hills development call for large earthwork volumes with significant cut and fill depths. The soils report recommends the removal of unconsolidated alluvium, artificial fill, slopewash, weathered bedrock, and landslide materials prior to placement of fill. The estimated depths of removals for alluvium in the canyons, slopewash, and weathered bedrock are 5 to 10 feet (Allan E. Seward Engineering Geology, Inc., 2023).

Grading for project development will not be performed in areas of oilfield operations until field abandonment activities are completed and environmental clearances have been obtained. It expected that clearances from EHS will be issued on an area by area basis.

4.12 Soil Vapor Survey

Post-remediation soil vapor sampling for methane and/or VOCs will be performed in areas where residual concentrations of TPH or VOCs are left in place, if they are in the vicinity of areas to be developed with occupied structures.

5.0 Soil Management Procedures

5.1 Post-Closure Soil Management

After environmental clearances are obtained from the environmental professional and EHS, site grading and development activities should be performed under a Soil Management Plan (SMP). An SMP outlines the procedures and methodologies used to minimize potential environmental risks due to future Site activities, on-site movement of soil and waste management, and addresses the following items:

- Procedures and protocols to be used at the Subject Property during any future excavation and construction earthwork activities;
- Compliance with environmental regulations;
- Screening criteria for re-use of excavated soils;
- Worker safety guidelines and soil management/handling protocols in the event that potentially contaminated soil is encountered or disturbed;
- Contingency procedures to address unexpected environmental conditions, if encountered;
- Outlines record keeping procedures and reporting.

Given the potential of encountering impacted soil during any future major earthwork performed on Subject Property, an SMP will guide construction and earthwork contractors in the best management practices (BMPs) for their excavations, utility installations, grading, and compaction, and general earthwork activities.

An SMP will minimize undue delays resulting from the discovery of previously unidentified environmental conditions during grading activities by anticipating potential problems that can slow down or stop the project and establishing written procedures on how such items will be addressed during future grading and redevelopment.

6.0 References

Allan E. Seward Engineering Geology, Inc., 2023. Geotechnical Report, Solomon Hills, General Plan Amendments and Specific Plan. October 20.

DTSC, 2001. Information Advisory for Clean Imported Fill Material. October.

Harding ESE, 2001. Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California. October 22.

Kearney, 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science, University of California. March.

USGS, 2022. Hydrogeologic Characterization of the San Antonio Creek Valley Watershed, Santa Barbara County, California. Report 2022-5001. January 31.

Waterstone Environmental, Inc., 2004. Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California. September 6.

Waterstone Environmental, Inc., 2007. Summary of Site Characterization Activities for Breitburn Energy's Newlove and Careaga Leases at the Orcutt Hill Oil Field, Orcutt, CA. October 5.

Tables

Table 1
Sampling and Analysis Matrix
Solomon Hills Development (Newlove and Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Location ID	Lease	Well/Location	Sample Depths (ft bgs)				
			Soil				Soil Vapor
			TPH (8015M)	VOCs (8260B)	SVOCs (8270C) Title 22 Metals (6010B/7471A)	SVOCs (8270C) PCBs (8082)	VOCs (8260B)
CL-W-61	Careaga	Well #61	5,10,15	5,10,15	5	--	10,15
CL-W-60	Careaga	Well #60	5,10,15	10	10	--	--
CL-W-74	Careaga	Well #74	5,10,15	10	5,10	--	--
CL-TH1	Careaga	Test Header/ Pipe Corridor	2,5,10	5	2,10	--	10
CL-TR1	Careaga	Test Header/ Pipe Corridor	2,5	5	2	--	--
CL-W-6	Careaga	Well #6 Section 31	5,10,15	10	10	--	--
CL-W-77	Careaga	Well #77	5,10,15	10,15	10	--	--
CL-W-45	Careaga	Well #45	5,10,15	10	5	--	--
CL-W-75	Careaga	Well #75	5,10,15	10	10	--	--
CL-W-37A	Careaga	Well 37A (Abandoned)	5,10,15	10,15	10	--	--
TF3, TF4	Careaga	Section 32 Tank Battery	2,5,10,15	5,10	2	--	10
CL-W-78	Careaga	Well #78	10,20,25,30	10,20,25,30	20	--	10,20
CL-W-63	Careaga	Well #63	10,20,25	10,20,25	10	--	10,20
CL-FEB1	Careaga	Former SFE Tank Battery	2,5,15	5,15	2	--	10,15
CL-W-B-5	Careaga	Well B-5	5,10,15	10	10	--	--
CL-SEP1	Careaga	Oil Separators	2,5,10	5	2	--	10
CL-T-1	Careaga	Pole/Transformer Storage Area	1,2,5	--	--	1,2	--
CL-W-6(32)	Careaga	Well #6 Section 32	5,10,20	10,20	20	--	10,20
AD-2	Newlove	Former Auto Bodies Dump	--	--	--	--	10,20
N-W-22	Newlove	Well #22	5,10,15	10	10	--	--
N-W-46	Newlove	Well #46	5,10,15	10	10	--	--
N-W-48	Newlove	Well #48	5,10,15	10	10	--	--

Notes:

ft bgs	feet below ground surface	SVOCs	semi-volatile organic compounds
TPH	total petroleum hydrocarbons	PCBs	poly chlorinated biphenyls
VOCs	volatile organic compounds	--	not sampled/not analyzed

Table 2
Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-W-6	5	1/31/2024	<50	<50	<99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<82	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	<4.1	<4.1	ND
		20		<9.9	**18**	**26**	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.3	<4.7	<4.7	ND
Careaga	CL-W-37A	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<84	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.4	<4.2	<4.2	ND
		15		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
Careaga	CL-W-45	5	1/30/2024	<9.9	**12**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<92	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<4.6	<4.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	<9.9	**17**	**22**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	**46**	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**4.7**	<3.6	<3.6	**12**	<3.6	**12**	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<10	**19**	**30**	<77	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	ND
		10		<9.9	<9.9	<20	<69	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<6.9	<3.5	<3.5	ND
		15		<9.9	<9.9	<20	<69	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-63	10	1/30/2024	<10	<10	<20	<90	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<9.0	<4.5	<4.5	ND
		20		**320**	**3,800**	**1,500**	<89	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		25		<10	**24**	<20	<130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	ND
Careaga	CL-W-74	5	1/30/2024	<9.9	**11**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	**1,400**	**76**	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	**19**	<20	**150**	**85**	**37**	**7.6**	**5.2**	**7.6**	<4.2	<4.2	**5.7**	**4.5**	<4.2	**9.3**	<4.2	**11**	**19**	**30**	ND
		15		<10	**11**	<20	<69	**59**	**9.2**	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-78	10	1/30/2024	<9.9	<9.9	<20	<100	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	ND
		20		**1,600**	**7,200**	**2,800**	<4,600	**730**	**13,000**	**9,400**	<230	**12,000**	**1,800**	**1,200**	**9,100**	<230	<230	<230	**7,200**	<460	<230	<230	ND
		25		<10	<10	<20	<78	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.8	<3.9	<3.9	ND
		30		<9.9	<9.9	<20	<75	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.5	<3.8	<3.8	ND
Careaga	CL-W-B-5	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
Careaga	CL-SEP1	2	1/30/2024	<50	**61**	**120**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.8	<4.4	<4.4	ND
		10		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-TF3	2	1/31/2024	<50	<50	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<50	<50	<100	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	ND
		10		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<50	**180**	**370**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	**31**	**23**	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		10		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<9.9	**13**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<73	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	ND
		10		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TR1	2	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<110	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	ND
Newlove	N-W-22	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<73	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.3	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<75	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.5	<3.7	<3.7	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				NA	260[3]	12,000[3]	70,000,000[2]	330[1]	5,800[2]	1,900,000[2]	33,000,000[2]	2,000[1]	2,400,000[1]	--	3,800,000[2]	1,100,000[1]	940[2]	300,000[2]	2,200,000[1]	550,000[2]	640,000[2]	580,000[2]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
bgs	below ground surface
	Result exceeds screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 3
Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	All Other SVOCs	Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**260**	<250	<250	**2,000**	ND	**1.7**	**35**	<0.49	<0.49	**--**	**7.6**	**1.2**	**2.9**	**1.8**	**1.9**	**3.3**	**9.1**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<250	<250	<250	**1,600**	ND	**1.0**	**43**	<0.48	**2.2**	**--**	**10**	**6.2**	**3.3**	**3.9**	**1.6**	**12**	**15**	**13**	ND
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**700**	ND	<0.98	**18**	<0.49	<0.49	**--**	**5.1**	**1.3**	**1.4**	**1.7**	**1.2**	**2.4**	**8**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	<250	<250	<250	**2,100**	ND	**7.2**	**45**	**0.99**	**0.59**	**--**	**17**	**14**	**2.5**	**5.4**	**7.7**	**18**	**29**	**13**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**13**	**50**	**1.2**	**0.51**	**--**	**26**	**5.3**	**28**	**5.8**	**2.1**	**50**	**35**	**82**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<250	<250	<250	**670**	ND	<0.98	**38**	<0.49	<0.49	**--**	**6.3**	**1.6**	**3.7**	**2.8**	**1.1**	**4.9**	**7.9**	**11**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	**17,000**	<12,000	<12,000	ND	<0.98	**14**	<0.49	<0.49	**--**	**22**	<0.49	**1.8**	**4.2**	**1.2**	**4.1**	**8.6**	**15**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	<250	<250	<250	<250	ND	**3.1**	**80**	<0.48	<0.48	**--**	**22**	**1.2**	**4.2**	**8.1**	**2.4**	**7.6**	**27**	**9.8**	ND
		10		<250	<250	<250	**1,900**	ND	**4.2**	**170**	<0.48	**53/56**	**0.69**/<0.25	**26**	**1.7**	**4.9**	**3.1**	**1.9**	**41**	**34**	**39**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,200**	ND	**1.7**	**30**	<0.49	<0.49	**--**	**17**	**1.9**	**5.6**	**4.4**	**2.3**	**7.4**	**17**	**13**	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	<0.98	**32**	<0.49	<0.49	**--**	**6.5**	**1.8**	**3.2**	**2.3**	**1.2**	**5.9**	**8.8**	**6.5**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	<12,000	**15,000**	<12,000	ND	<0.97	**21**	<0.49	<0.49	**--**	**6.0**	**0.88**	**1.8**	**1.6**	<0.97	**4.7**	**11**	**5.2**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.0**	**22**	<0.49	<0.49	**--**	**9.7**	**0.80**	**3.7**	**2.8**	**1.8**	**3.9**	**8.8**	**6.0**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**	**Di-n-octyl-phthalate**	**1-Methylnaph-thalene**	**2-Methylnaph-thalene**	**Phenol**	**All Other SVOCs**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium 6010B/6020**	**Cadmium (STLC/TCLP) (mg/L)**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Molybdenum**	**Nickel**	**Vanadium**	**Zinc**	**All Other Metals**
Careaga	CL-FEB1	2	1/31/2024	<250	<250	<250	<250	ND	<0.99	**30**	<0.50	<0.50	--	**5.4**	**1.1**	**2.4**	**2.6**	**1.9**	**3.7**	**7.7**	**5.7**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	<5,000	<5,000	<5,000	<5,000	ND	**1.5**	**29**	<0.49	<0.49	--	**6.6**	**1.4**	**6.5**	**11**	**4.0**	**4.7**	**13**	**16**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	<2,500	<2,500	<2,500	<2,500	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2		<250	<250	<250	<250	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF3	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	**1.2**	**110**	<0.49	**0.74**	--	**7.3**	**1.4**	**4.7**	**3.3**	**2.3**	**6.2**	**10**	**52**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	<0.98	**36**	<0.49	**0.89**	--	**4.9**	**0.91**	**3.3**	**4.2**	**4.4**	**3.7**	**7.8**	**13**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<2,500	<2,500	<2,500	<2,500	ND	**1.3**	**24**	<0.48	<0.48	--	**7.6**	**0.84**	**3.2**	**3.0**	**1.8**	**3.6**	**8.5**	**8.6**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**3.0**	**12**	<0.48	<0.48	--	**11**	**0.68**	**2.2**	**3.1**	**2.9**	**3.6**	**14**	<4.8	ND
Careaga	CL-TR1	2	1/30/2024	<250	<250	<250	<250	ND	**1.6**	**35**	<0.50	<0.50	--	**6.1**	**1.3**	**3.3**	**2.3**	**3.4**	**4.3**	**10**	<5.0	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**2,000**	ND	**4.8**	**18**	<0.49	<0.49	--	**8.0**	**0.77**	**1.6**	**3.5**	**19**	**4.3**	**15**	**5.8**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.1**	**16**	<0.48	<0.48	--	**10**	**1.2**	**2.0**	**2.6**	**1.5**	**3.6**	**14**	**12**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,100**	ND	**1.5**	**38**	<0.48	<0.48	--	**15**	**2.1**	**4.4**	**3.6**	<0.95	**8.5**	**19**	**16**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			Residential Screening Levels	630,000[1]	9,900[1]	240,000[4]	19,000,000[1]	--	12[3]	15,000[4]	16[4]	78[4]	1/1**	120,000[2]	23[4]	3,100[4]	80[4]	390[4]	820[4]	390[4]	23,000[4]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface
	Detection exceeded screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 The screening level of 12 ppm for arsenic is within the range of naturally-occurring background levels for California soils as cited in Bradford et. al., "Background Concentrations of Trace and Major Elements in California Soils", Kearney Foundation Special Report, UC-Riverside and CAL-EPA DTSC, March 1996.

4 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 4
Soil Analytical Results for PCBs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	PCBs EPA Method 8082 (µg/kg)
Careaga	CL-T-1	1	1/30/2024	<50
		2		<50
			Residential Screening Level	170

Notes:

ND/<	Not Detected above noted Reporting Limit
PCBs	Polychlorinated Biphenyls
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface

Table 5
Soil Vapor Analytical Results - Solomon Hills Development (Newlove & Careaga Leases)
Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Volatile Organic Compounds EPA Method 8260B ($\mu g/m^3$) Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other VOCs
Careaga	CL-W-6(32)	10	1/31/2024	**9.0**	**45**	**13**	**13**	<40	<12	**17**	<12	**10**	<8	**134**	<8	**37**	**10**	**130**	ND
		20		<8	**31**	**14**	**10**	<40	<12	**12**	<12	<8	<8	**68**	<8	**27**	<8	**99**	ND
Careaga	CL-W-61	10	1/31/2024	**25**	**21**	<8	<8	<40	<12	<8	<12	<8	<8	**221**	<8	**19**	<8	**98**	ND
		15		**67**	**23**	<8	<8	<40	<12	<8	<12	<8	<8	**300**	**46**	**16**	<8	**95**	ND
		15 REP		**74**	**23**	<8	<8	<40	<12	<8	<12	<8	**9.0**	**313**	**76**	**16**	<8	**89**	ND
Careaga	CL-W-63	10	1/31/2024	**12**	**14**	<8	<8	<40	<12	<8	<12	<8	<8	**100**	<8	**13**	<8	**70**	ND
		20		**561**	**2,520**	**2,380**	**483**	<40	<12	**787**	**1,210**	<8	<8	**959**	<8	**1,220**	**301**	**4,127**	ND
Careaga	CL-W-78	10	1/31/2024	**553**	**6,540**	**2,900**	**602**	**67**	**220**	**2,290**	**1,200**	<8	<8	**160**	<8	**2,960**	**23**	**2,588**	ND
		20		NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
Careaga	CL-FEB1	10	1/31/2024	**8**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	--	ND
		15		**16**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**20**	<8	<8	<8	--	ND
Careaga	CL-SEP1	10	1/31/2024	**12**	**56**	**26**	**10**	<40	<12	**27**	**16**	**9.0**	<8	**52**	<8	**40**	<8	**99**	ND
Careaga	CL-TF3	10	1/31/2024	**11**	**9.0**	<8	<8	<40	<12	<8	<12	<8	<8	**33**	<8	**12**	<8	**16**	ND
Careaga	CL-TF4	10	1/31/2024	**9.0**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	**19**	ND
Careaga	CL-TH1	10	1/31/2024	**232,000**	**35,600**	**8,760**	<2400	<12000	<3600	**5,900**	<3600	<2400	<2400	**55,900**	<2400	**9,200**	**4,770**	**71,200**	ND
Newlove	AD-2	10	1/31/2024	**43**	**20**	<8	<8	<40	<12	<8	<12	<8	<8	**106**	<8	**19**	<8	**78**	ND
		20		**17**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**35**	**9**	**9**	<8	--	ND
Indoor Air Screening Level				0.097	1.1	--	--	0.083	--	1,000	--	940	0.46	310	0.48	63	63	100	
Residential Screening Level AF= 0.03				3.2	37	--	--	2.8	--	33,333	--	31,333	15.3	10,333	16	2,100	2,100	3,333	
Residential Screening Level AF= 0.001				97	1,100	--	--	83	--	1,000,000	--	940,000	460	310,000	480	63,000	63,000	100,000	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
µg/m3	micrograms per cubic meter
bgs	below ground surface
NF	No flow

Screening Levels:
DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022). Unless Otherwise Noted (AF = 0.03).

AF = Attenuation Factor, applied according to Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion (February 2023).
* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) with appropriate AF because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

Table 6
Summary of Estimated Remediation Soil Volumes
Solomon Hills Development, Orcutt Oil Field
Orcutt, CA

Item/Feature	Est. Qty.	Assumed Basis	Assumed Size L x W x H	Ea (cy)	Subtotal (cy)	Tons
Wells/ Well Pads	60	25%	Conical Radius 20', Depth 12'	186	2,791	4,187
Sumps	10		25' x 25' x 7'	162	1,620	2,431
Tank Batteries	3		75' x 35' x 5'	486	1,458	2,188
Pipes			2,000' x 10 x 4'	2,963	2,963	4,444
Roads	184000	sf, 4 inches thick	0.33		2,272	3,407
Other Facilities	10		25' x 35' x 5'	116	1,157	1,736
Former Dump D-2	1		25' x 25' x 10'	231	231	347
			Subtotal		12,493	18,740
			Contingency	10%	1,249	1,874
Conversion Factor	1.5	tons/cy	**Grand Total**		**13,743**	**20,614**

Note: These estimates are based on available information for these oilfield facilities, the results of site investigations, various assumptions outlined herein, and the proposed site development.

Figures

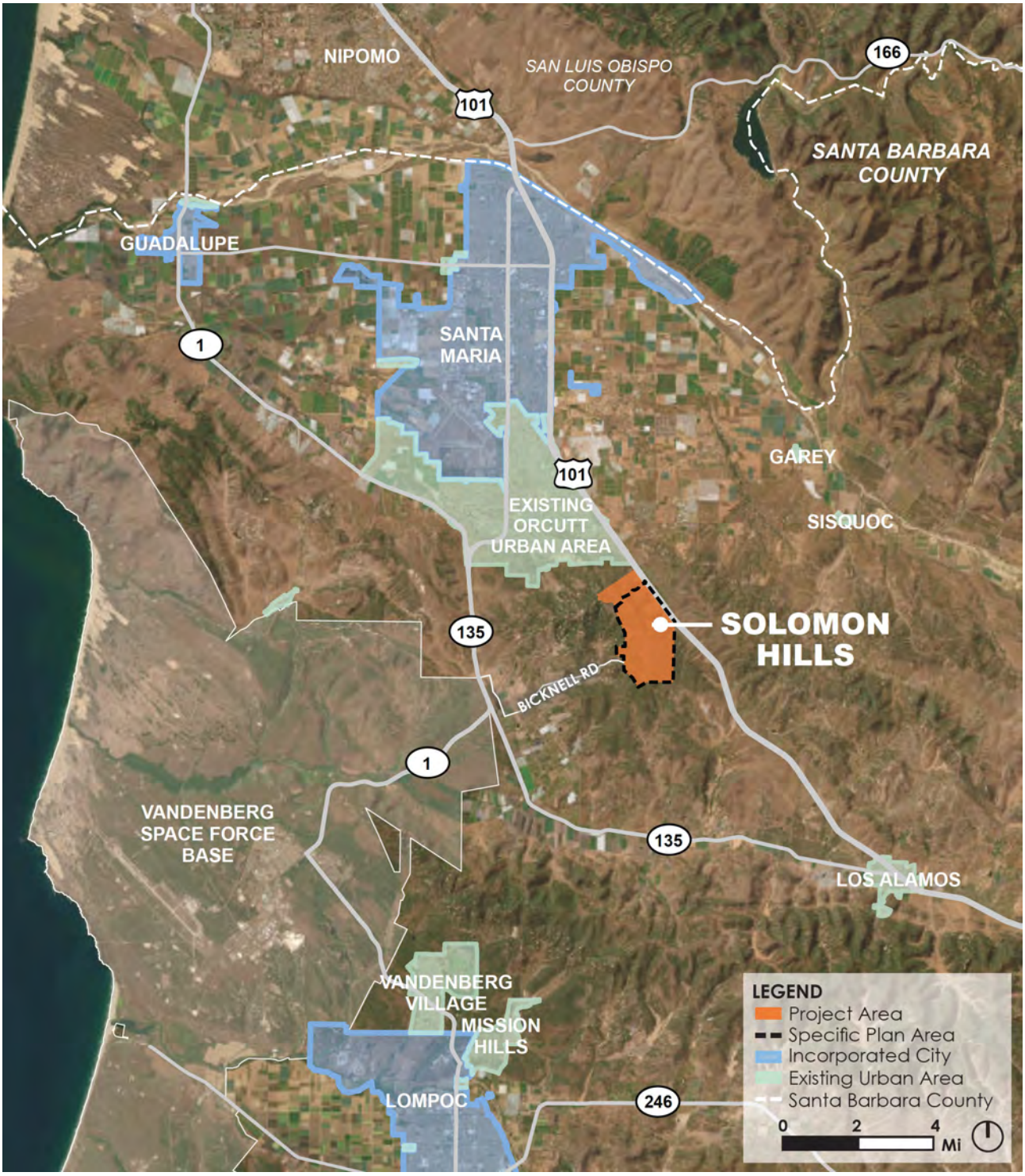


Figure 1
Subject Property Location Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

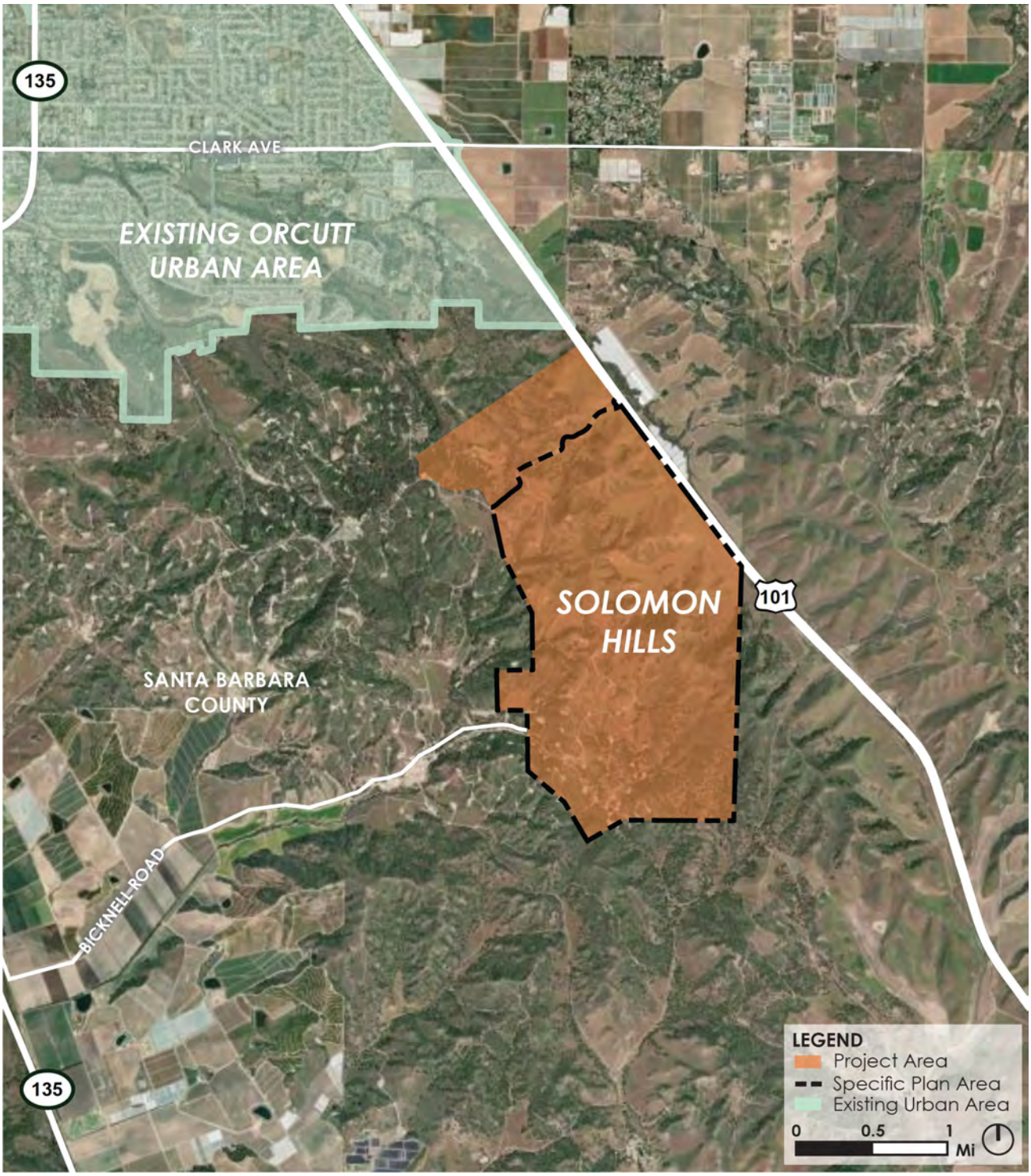


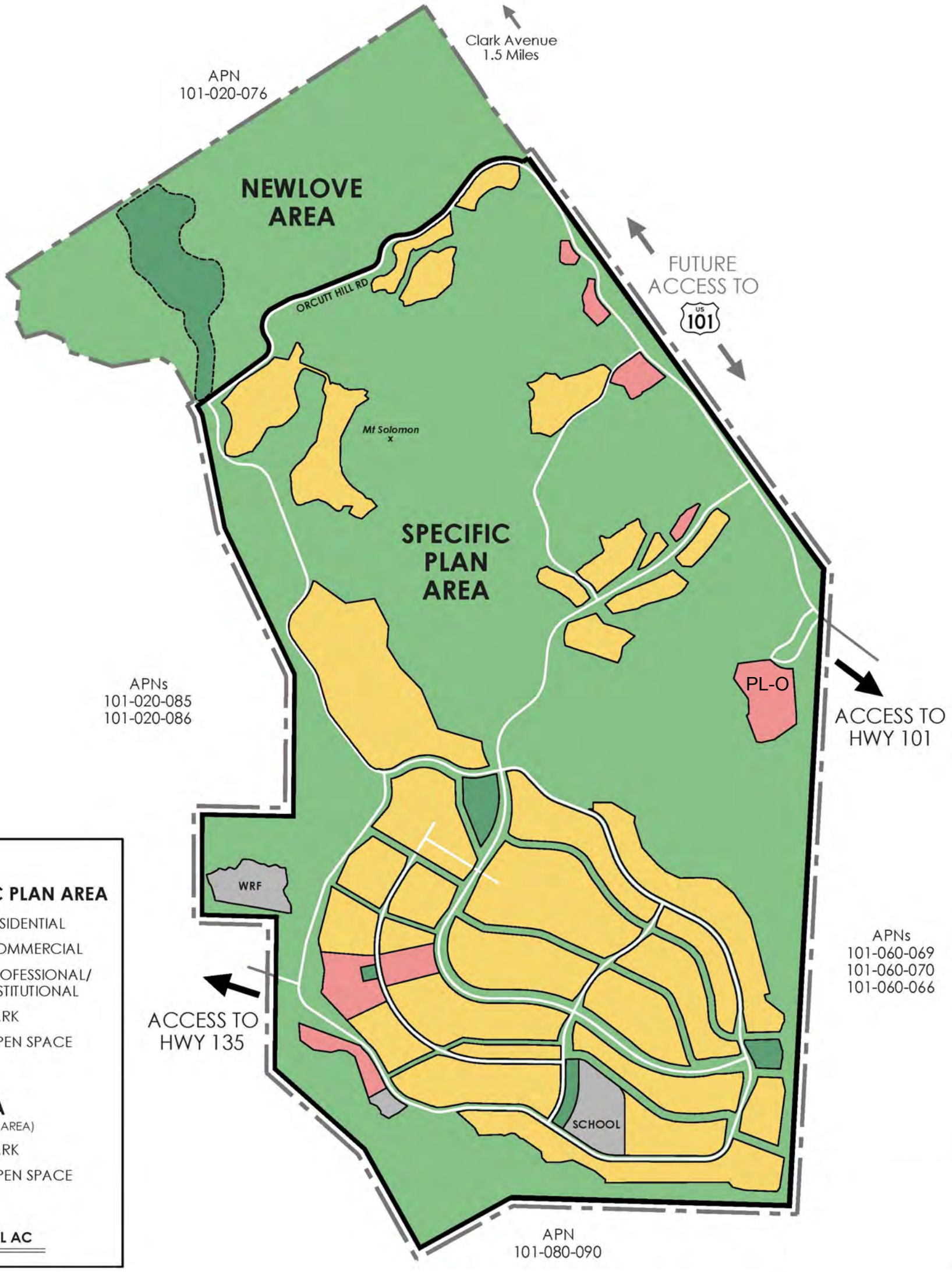
Figure 2
Subject Property Vicinity Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

SOLOMON HILLS
AREA DESIGNATIONS MAP
SANTA BARBARA COUNTY, CA



LEGEND

SPECIFIC PLAN AREA

546 AC	RESIDENTIAL
41 AC	COMMERCIAL
25 AC	PROFESSIONAL/ INSTITUTIONAL
41 AC	PARK
963 AC	OPEN SPACE
1,616 AC	

NEWLOVE AREA
(OUTSIDE SPECIFIC PLAN AREA)

31 AC	PARK
256 AC	OPEN SPACE
287 AC	

1,903 TOTAL AC

Figure 3
Development Map

Solomon Hills
Santa Barbara County, CA

Legend

NORTH

Approximate Scale
0 mi 0.125 mi 0.25 mi

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST., ANAHEIM, CA

Drawn By: TD	Project No:
Approved By: MS	Date: 5/27/2024



Figure 4
Grading Plan

Solomon Hills
Santa Barbara County, CA

NORTH

Approximate Scale

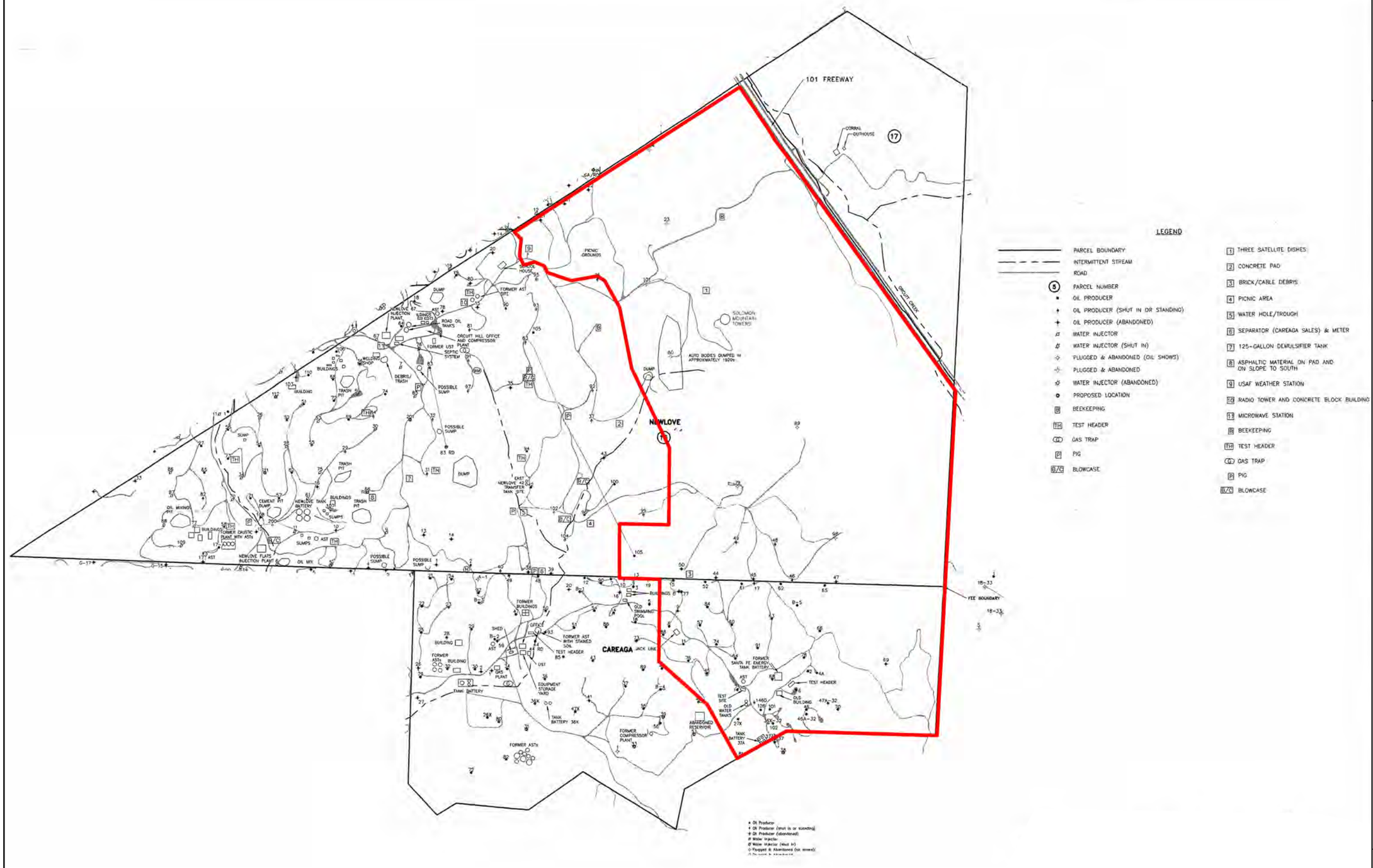
0' 200' 400'

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Figure 5
Environmental Features Site Plan

Solomon Hills
Santa Barbara County, CA



Reference: Harding ESE Env Site Assessment, Orcutt Hill Area, Santa Barbara County, California. Figure 2, October 22, 2001.

NORTH

0 1000' 2000'

Approximate Scale

Legend

Approximate Subject Property Boundary

WATERSTONE ENVIRONMENTAL, INC.
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Approved By: MS	Date: 5/21/24

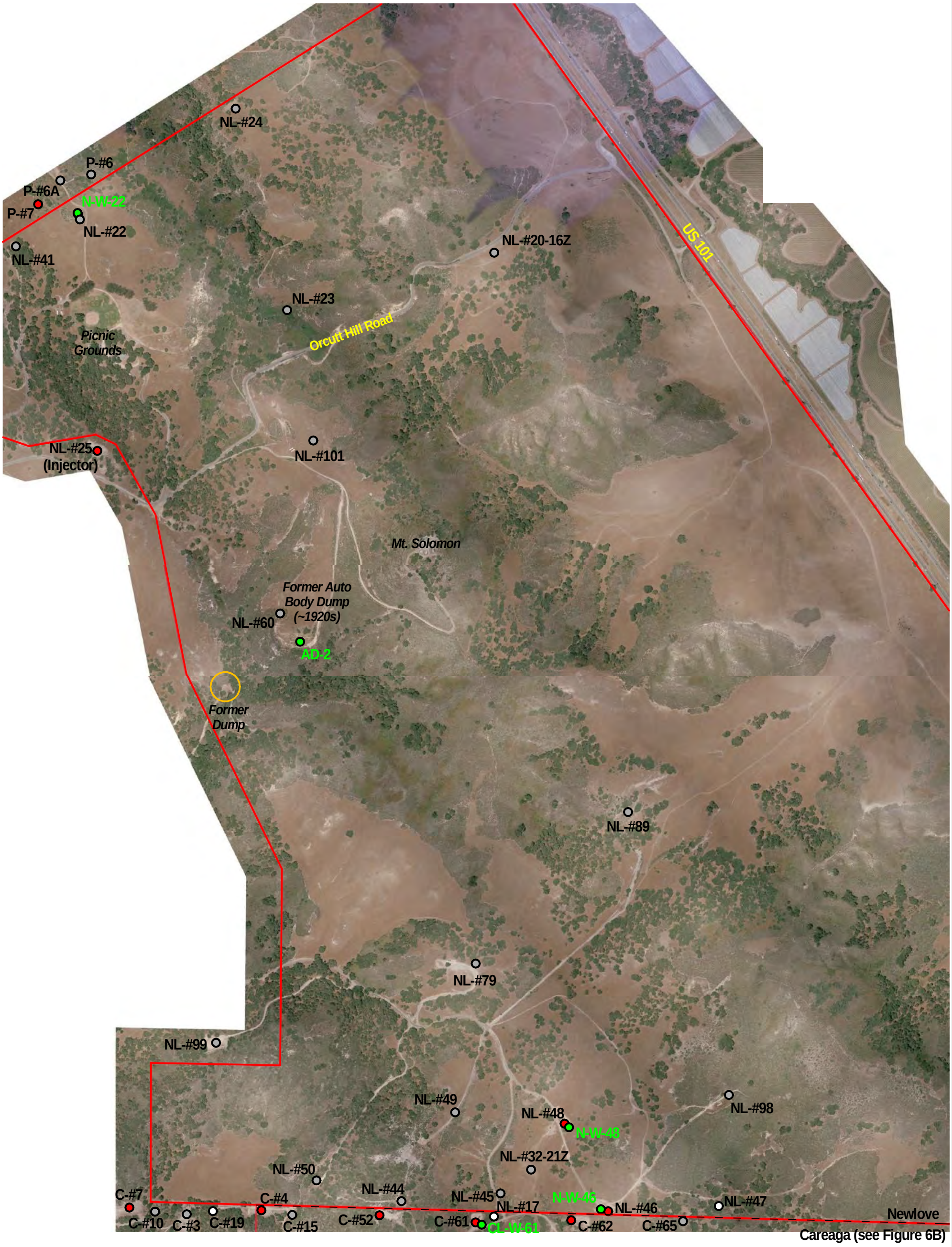


Figure 6A
Site Features, Sample Locations, and Areas of Proposed Remediation - Newlove

Solomon Hills
North - Newlove Area

Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

NORTH

Approximate Scale
0' 400' 800'

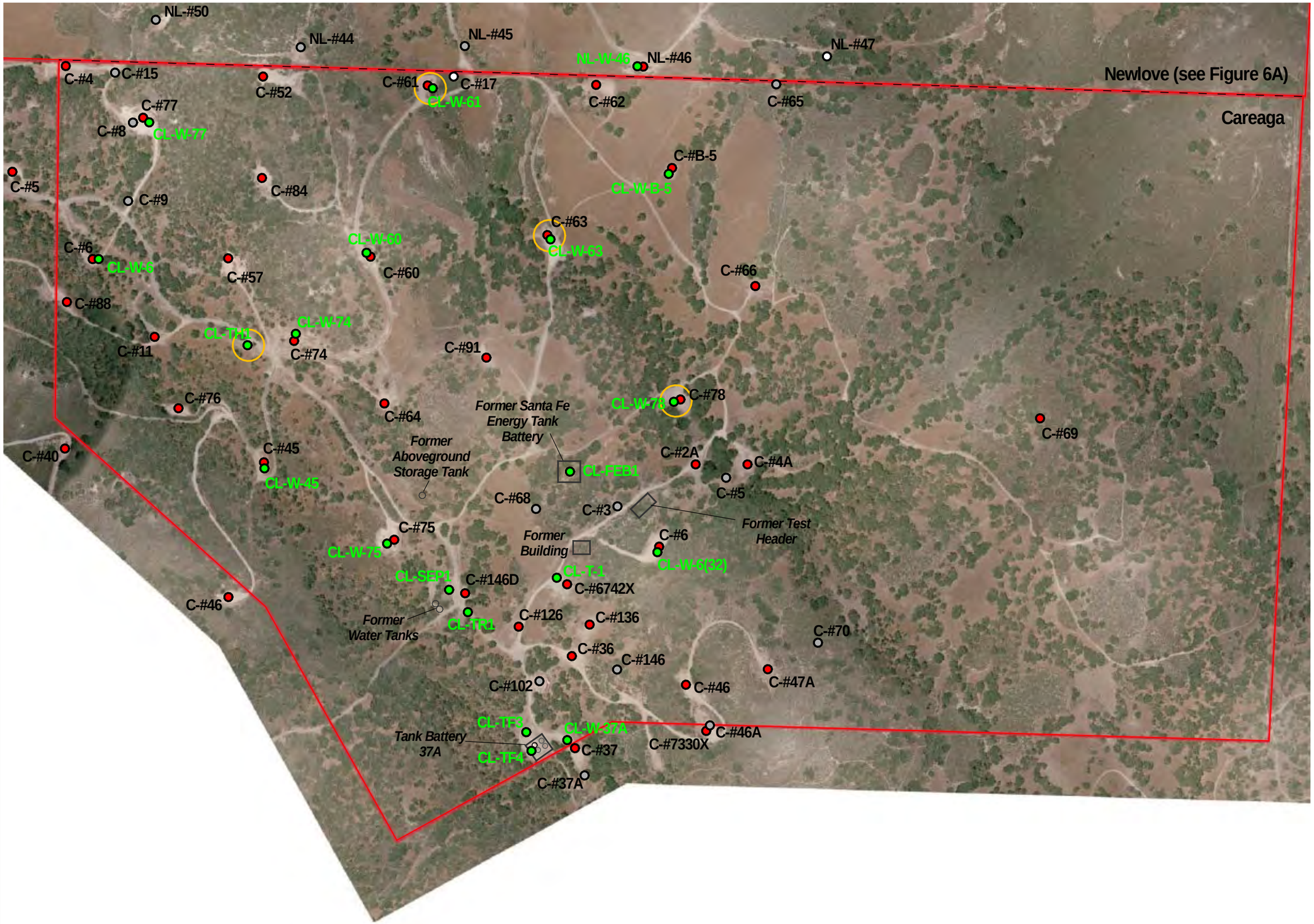
WATERSTONE ENVIRONMENTAL, INC.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

Figure 6B
Site Features, Sample Locations, and Areas of Proposed Remediation - Careaga

Solomon Hills
South - Careaga Area



Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

NORTH

Approximate Scale

0' 250' 500'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Appendix A
Well Summary and Status

Table 1.

Solomon Hills Well Data

(Project Boundary)

COUNT	*LEASE NAME*	*WELL #*	*API #*	*STATUS*	*CURRENT ELEVATION*	*FINISH GRADE ELEVATION*	*ELEVATION CHANGE*
1	CAREAGA	C-#68	0408302102	PLUGGED	850	942	92
2	CAREAGA	C-#3	0408322209	PLUGGED	855	941	86
3	CAREAGA	C-#6742X	0408322214	ACTIVE	838	918	80
4	CAREAGA	C-#6	0408322220	ACTIVE	862	936	74
5	CAREAGA	C-#5	0408322211	PLUGGED	868	936	68
6	CAREAGA	C-#2A	0408322208	ACTIVE	869	936	67
7	CAREAGA	C-#4A	0408322210	ACTIVE	873	936	63
8	CAREAGA	C-#91	0408302123	ACTIVE	885	943	58
9	NEWLOVE	NL-#32-21Z	0408322428	PLUGGED	937	994	57
10	CAREAGA	C-#78	0408302111	ACTIVE	882	936	54
11	CAREAGA	C-#66	0408302100	ACTIVE	908	956	48
12	CAREAGA	C-#B-5	0408320317	IDLE	935	976	41
13	CAREAGA	C-#65	0408302099	PLUGGED	967	1006	39
14	CAREAGA	C-#62	0408302096	ACTIVE	972	1002	30
15	CAREAGA	C-#63	0408302097	ACTIVE	941	969	28
16	CAREAGA	C-#126	0408322108	ACTIVE	834	860	26
17	CAREAGA	C-#11	0408302047	ACTIVE	921	946	25
18	NEWLOVE	NL-#60	0408302313	PLUGGED	1034	1055	21
19	CAREAGA	C-#136	0408321379	ACTIVE	834	853	19
20	CAREAGA	C-#146D	0408322196	ACTIVE	846	860	14
21	CAREAGA	C-#75	0408302108	ACTIVE	887	901	14
22	NEWLOVE	NL-#45	0408302300	PLUGGED	964	974	10
23	CAREAGA	C-#77	0408302110	IDLE	913	922	9
24	NEWLOVE	NL-#46	0408302301	ACTIVE	999	1006	7
25	NEWLOVE	NL-#47	0408302302	CANCELED	999	1006	7
26	CAREAGA	C-#57	0408302091	ACTIVE	955	960	5
27	CAREAGA	C-#69	0408302103	PLUGGED	968	970	2
28	CAREAGA	C-#64	0408302098	ACTIVE	945	946	1
29	NEWLOVE	NL-#20-16Z	0408322439	PLUGGED	782	783	1
30	CAREAGA	C-#9	0408302045	PLUGGED	874	871	-3
31	NEWLOVE	NL-#48	0408302303	ACTIVE	1011	1008	-3
32	CAREAGA	C-#61	0408302095	ACTIVE	982	976	-6
33	CAREAGA	C-#17	0408302053	CANCELED	973	966	-7
34	NEWLOVE	NL-#50	0408302305	PLUGGED	938	930	-8
35	CAREAGA	C-#8	0408302044	PLUGGED	913	903	-10
36	CAREAGA	C-#74	0408302107	ACTIVE	967	956	-11
37	NEWLOVE	NL-#98	0408302339	PLUGGED	1064	1036	-28
38	NEWLOVE	NL-#101	0408302341	PLUGGED	1119	1091	-28
39	NEWLOVE	NL-#79	0408302324	PLUGGED	1050	1021	-29
40	CAREAGA	C-#60	0408302094	ACTIVE	998	956	-42
41	CAREAGA	C-#45	0408302079	ACTIVE	1000	954	-46
42	NEWLOVE	NL-#49	0408302304	PLUGGED	1051	1001	-50
43	CAREAGA	C-#70	0408302104	PLUGGED	986	936	-50
44	CAREAGA	C-#84	0408302117	ACTIVE	1025	956	-69
45	NEWLOVE	NL-#44	0408302299	PLUGGED	1073	963	-110
46	CAREAGA	C-#52	0408302086	ACTIVE	1067	956	-111
47	NEWLOVE	NL-#21	0408302280	PLUGGED	1076	NA	NA
48	NEWLOVE	NL-#22	0408302281	PLUGGED	993	NA	NA
49	NEWLOVE	NL-#23	0408302282	PLUGGED	897	NA	NA
50	NEWLOVE	NL-#24	0408302283	PLUGGED	748	NA	NA
51	NEWLOVE	NL-#41	0408302296	PLUGGED	1071	NA	NA
52	NEWLOVE	NL-#89	0408302331	PLUGGED	988	NA	NA
53	CAREAGA	C-#4	0408302040	ACTIVE	873	NA	NA

Table 1.

Solomon Hills Well Data

(Project Boundary)

COUNT	*LEASE NAME*	*WELL #*	*API #*	*STATUS*	*CURRENT ELEVATION*	*FINISH GRADE ELEVATION*	*ELEVATION CHANGE*
54	CAREAGA	C-#6	0408302042	ACTIVE	858	NA	NA
55	CAREAGA	C-#15	0408302051	PLUGGED	887	NA	NA
56	CAREAGA	C-#36	0408320677	ACTIVE	829	NA	NA
57	CAREAGA	C-#46	0408321223	ACTIVE	907	NA	NA
58	CAREAGA	C-#47A	0408321822	IDLE	978	NA	NA
59	CAREAGA	C-#76	0408302109	ACTIVE	1001	NA	NA
60	CAREAGA	C-#88	0408302120	ACTIVE	935	NA	NA
61	CAREAGA	C-#102	0408322215	PLUGGED	830	NA	NA
62	CAREAGA	C-#146	0408321957	PLUGGED	858	NA	NA

NA - Denotes in open space not in development boundary.
Active Wells = 30
Inactive or Plugged Wells = 32

Appendix B

Groundwater Basins of Santa Barbara County



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

Department of Public Works
County of Santa Barbara

Key to Features

Groundwater Basins

- CARPINTERIA
- CUYAMA VALLEY
- FOOTHILL
- GOLETA
- MONTECITO
- SAN ANTONIO CREEK VALLEY
- SANTA BARBARA
- SANTA MARIA RIVER VALLEY
- SANTA YNEZ RIVER VALLEY

This map is for reference only. Although every effort has been made to ensure the accuracy of information, errors and conditions originating from physical sources used to develop the database may be reflected on this map. Santa Barbara County shall not be liable for any errors, omissions, or damages that result from inappropriate use of this document. No level of accuracy is claimed for the boundary lines shown hereon and lines should not be used to obtain coordinate values, bearings or distances.

N
W E
S

Feet
0 5,000 10,000 20,000 30,000 40,000

Coordinate System: State Plane California Zone V NAD 1983

Santa Barbara County Groundwater Basins

Prepared By:
Santa Barbara County Water Agency
February 2019

Appendix C

Report Excerpts – Waterstone Phase II 2006

WATERSTONE ENVIRONMENTAL, INC.

2936 East Coronado Street * Anaheim, CA 92806
714-414-1122 * Fax: 714-414-1166
E:Mail: nberesky@waterstone-env.com

October 5, 2007

Randy Wheeler
Principal
Pacific Terra Holdings, LLC
3010 Old Ranch Parkway, Suite 450
Seal Beach, CA 90740

Jackson Washburn
President
BreitBurn Land Co.
515 South Flower St., Suite 4800
Los Angeles, CA

RE: Summary of Site Characterization Activities for BreitBurn Energy's Newlove and Careaga Leases at the Orcutt Oil Field, Orcutt, CA

Dear Sirs:

At your request, Waterstone Environmental, Inc. (Waterstone) has prepared this summary report of site characterization activities Waterstone performed at two of BreitBurn Energy's leases located in the Orcutt Oilfield. Waterstone performed soil sampling in and adjacent to over 100 oilfield features located on the Newlove and Careaga Leases (Subject Property) to evaluate environmental conditions and determine whether remedial action is required.

Introduction

The Orcutt Hill Oilfield is located in the Santa Maria Basin in the northwestern portion of Santa Barbara County, approximately 10 miles south of Santa Maria, California. The Orcutt Hill Oilfield consists of over 10,000 acres and includes the following fees/leases:

- Pinal Fee
- Hobbs Fee
- Dome Fee
- Kaiser Fee
- Elasser Fee
- Folsom Fee
- Newlove Fee
- Careaga Fee
- Fox Lease
- Hartnell-Squires Lease
- Harris-Graciosa Lease
- Cal Coast Lease

This report includes an evaluation of the Newlove and Careaga leases only.

All of the properties are located west of Highway 101 as shown on Figure 1. The main entrance to the Orcutt Hill area oilfield is on Pinal Grade Road, accessed from the north along Rice Ranch Road. The Newlove Fee is located in the central portion while the Careaga Fee is located in the southwestern portion of the Orcutt Hill Oilfield.

At the time of Waterstone's sampling activity in 2006, the Subject Property was used for oil production and cattle grazing. The surrounding area consists mostly of ungraded vacant land, oilfields, vineyards and ranch-style residences. The area is very hilly with steep slopes and densely vegetated canyons. There has been no historical use or storage of chemical compounds in these areas and they were not sampled during Waterstone's environmental investigation.

Improvements at the Subject Property consist of oil production facilities including associated wells, pipelines, buildings, storage areas, test sites, aboveground storage tanks, compressor plant, water injection facilities, and areas of historical use such as pits and sumps.

The following previous reports were used by Waterstone to determine appropriate sampling locations for this study:

- October 22, 2001, Harding ESE; *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.*

- September 6, 2004, Waterstone Environmental, Inc.; *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.*

Field Work

Waterstone's evaluation was based on the map shown in Figure 2 that was generated by Harding ESE in its report dated October 22, 2001, *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.* This map shows the features listed on Table 1 that became the basis for choosing sampling locations. Waterstone and its subcontracted surveyor (Land Development Consultants of Anaheim, CA) performed 3 site visits to mark locations and survey features from the Harding ESE map that have no current means of identification onsite today.

Initially, the Newlove lease was evaluated. Two field episodes were performed to evaluate soil near wells, tank farms, compressors, and other oil field features that are listed on Table 1. The first field episode was to sample initial locations in worst-case scenario areas in June of 2006. After receipt of that data, a second sampling episode was performed to provide additional stepout locations based on the first set of analytical results. The Careaga lease was sampled in December 2006. The features sampled are shown on Table 1. Sampling locations were limited to topographically accessible areas and worst case scenario areas where chemical compounds were know or suspected to have been used or stored in the past.

Samples were collected using a hand auger or GeoProbe direct-push soil sampling rig to collect undisturbed samples according to standard soil sampling protocols included as Attachment A.

Over 100 locations were sampled on the Newlove and Careaga leases and over 400 samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range)
- Volatile organic compounds (VOCs) by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Title 22 Metals by EPA Method 6000/7000 series
- Polychlorinated biphenyls by EPA Method 8082 (one sample from each of the dump, pit, sump, building, and transformer areas)
- Pesticides by EPA Method 8082 (one sample from each of the dump, pit, sump building, and transformer areas)

Sample locations are shown on Figure 3. Inset Areas 1, 2, 3, and 4 show detailed maps where specific sampling locations can be discerned.

Results

Sampling results for all samples analyzed for PCBs and pesticides indicate that none of these compounds were detected in the 24 samples that were analyzed. Analytical results for TPH, VOCs, and SVOCs are shown on Table 1. Metals results are shown on Table 2.

TPH results higher than 3500 parts per million (ppm) are shaded in yellow on Table 2 for ease of review. Waterstone uses 3500 ppm as a threshold concentration for total TPH to conservatively evaluate what may be considered elevated if a risk assessment were performed. Only 14 of the 437 samples (3%) analyzed contained total TPH in excess of 3500 ppm and only 6 of these are over 10,000 ppm for total TPH.

TPH in excess of 3500 ppm was detected at the 10 following features:

- 3 of 37 oil wells sampled (all 3 on Careaga)
- 1 of 12 locations sampled at compressor, condensate, caustic, or injection plant locations (the 1 is on Careaga)
- 1 of 1 location at the fuel loading station at Careaga
- 2 of 22 locations sampled at pits, dumps, and sumps (both on Newlove)
- 2 of 23 locations sampled at current and former aboveground tanks
- 1 of 6 locations sampled at blow casings, pigs, or test headers.

VOC and SVOC concentrations were mostly not detected. Where these compounds were detected, they were commonly associated with elevated TPH. Metals concentrations were not detected at concentrations above background levels. Laboratory analysis data sheets have not been attached to this summary report but can be provided on request.

Conclusions

Based on Waterstone's investigation, the following conclusions can be made:

- TPH has been detected at 3% of the sampled features at concentrations that may require some future action.
- Future property use will dictate the need and scope of any further assessment or remedial activities.
- Sampling results were biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the site that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for chemical use and storage.

Please call me if you have any questions.

Sincerely,

Nancy Beresky, PG 7965
Principal Hydrogeologist
Waterstone Environmental, Inc.

Attachments: Tables 1, 2, 3
Figures 1, 2, 3 and Insets 1, 2, 3, 4
Attachment A

Table 1
Features Sampled on the Newlove and Careaga Leases
BreitBurn Energy - Orcutt Oil Field
Orcutt, CA

Sampled Features	Abbreviation for Sample ID	# of Features	# of Borings
Newlove Lease Sampling:			
Auto Dump	AD-	3	3
Blow Case	BC-	2	2
Buildings	B-	1	1
Caustic Plant AST	CPA-	2	2
Cement Pits	CP-	2	2
Condensate Plant	CON-	2	2
Discharge Point	DP-	2	2
Dumps	D-	4	3
Former Tanks	FT-	2	2
Gas Scrubber	GS-	2	2
Injection Plant	IP-	4	4
Injection Plant Valves	IPV-	2	2
Lube Oil Tank	LOT-	1	1
Oil Mixing Pit	OMP-	7	7
Pig	P-	2	2
Sumps	S-	4	4
Tank Battery	TB-	4	6
Test Header	TH-	2	2
Transformers	T-	5	5
Trash Pits	TP-	1	1
Wells	W#__-	15	15
Total		***69***	***70***
Careaga Lease (CL) Sampling:			
Brea	B-	1	2
Compressor Plant	CL-CPlant-	1	2
Drainage Way	DR1-	1	1
Drum Storage	CL-DS-	1	2
Dump	CL-D	1	1
FRM Energy Battery	CL-FEB-	1	2
Fuel Loading	FI-	1	1
Gas AST	CL-GAST-	1	1
Sump	CL-S-	1	1
Tank Farm	CL-TF-	3	9
Wells	CL-W#___-	22	13
Total		***34***	***35***

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

on Subject Property

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
AD - 1	7/20/2006	2	6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	5.3	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	5.9	ND	ND	ND	---	---	---	---
AD - 2		2	6	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	6	ND	ND	ND	---	---	---	---
AD - 3		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	5.3	ND	ND	ND	---	---	---	---
B - 1	7/21/2006	1	12	2.8	ND	ND	---	---	---	---
		3	22	ND	ND	8.4	All compounds Not Detected		All compounds Not Detected	
		5	16	4.8	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	28	ND	2.2	20	---	---	---	---
BC - 1	6/14/2006	1	430	ND	200	221	---	---	---	---
		3	4000	640	2080	1279	---	---	---	---
		5	4100	913	2090	1062	1,1,2,2-Tetrachloroethane 1,2,4-Trimethylbenzene Ethylbenzene Isopropylbenzene Naphthalene n-Butylbenzene n-Propylbenzene sec-Butylbenzene	95 43 16,000 1,900 320 100 10,000 660	---	---
BC - 2	6/15/2006	1	ND	ND	ND	ND	All compounds Not Detected		---	---
		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CON - 1	7/21/2006	3	9.1	ND	ND	ND	---	---	---	---
		5	12	ND	ND	1.9	---	---	---	---
		10	7.7	2.7	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CON - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	6	ND	ND	ND	---	---	---	---
		15	5.4	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 1	7/19/2006	2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 2	7/20/2006	2	19	ND	ND	ND	---	---	---	---
		5	13	ND	ND	ND	---	---	---	---
		10	23	4	ND	7.8	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
CPA - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	20	ND	ND	4.1	All compounds Not Detected		All compounds Not Detected	
		15	17	ND	ND	11.8	---	---	---	---
CPA - 2		3	180	ND	ND	141	---	---	---	---
		5	19	ND	ND	13.8	All compounds Not Detected		All compounds Not Detected	
		10	8.3	ND	ND	1.8	---	---	---	---
		15	22	ND	ND	17.5	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
D - 1	7/20/2006	2	7.2	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	5.2	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
D - 2		2	26	ND	2.1	19.7	---	---	---	---
		5	30	ND	4.4	21.2	---	---	---	---
		10	450	ND	170	268	---	---	---	---
		15	48	ND	24.7	48.2	All compounds Not Detected		All compounds Not Detected	
		20	2700	83	1470	1134	---	---	---	---
D - 4	7/18/2006	2	14	11	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	7.1	ND	ND	ND	---	---	---	---
		15	10	6.2	ND	ND	---	---	---	---
		19	5.2	ND	ND	ND	---	---	---	---
DP - 1	6/13/2006	1	5	ND	ND	ND	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
DP - 2		1	300	ND	152	145.8	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
FT - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	6.2	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
FT - 2		3	26	ND	2.5	17.4	---	---	---	---
		5	20	ND	ND	12.2	---	---	---	---
		10	24	ND	ND	8.9	All compounds Not Detected		All compounds Not Detected	
		15	21	ND	ND	8.6	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
GS - 1	6/14/2006	3	15	ND	ND	ND	---	---	---	---
		5	19	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
GS - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 1	6/14/2006	3	2300	23	860	1390	---	---	---	---
		5	54	ND	ND	34.8	---	---	---	---
		10	ND	ND	15.2	101	---	---	---	---
		15	130	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 2		3	460	6.1	119.6	331	---	---	---	---
		5	470	ND	108	355	All compounds Not Detected		All compounds Not Detected	
		10	33	ND	ND	7.7	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 3		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	23	ND	ND	5.4	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 4		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
IPV - 1	6/14/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	11	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IPV - 2		3	18	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	17	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	30	ND	ND	8.1	---	---	---	---

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Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
LOT - 1	7/18/2006	1	1400		470	853	---	---	---	---
		3	34000	2130	17200	14300	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene p-Isopropyltoluene Toluene	270 69 100 300 67 500 130 95 280 33 120	---	---
		5	6400	969	3780	1600	---	---	---	---
OMP - 1	6/12/2006	2	8900	731	4210	3930	1,3,5-Trimethylbenzene	2	All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 2		2	290	ND	113.8	176.1	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 3		2	5.5	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND				
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
OMP - 4		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
OMP - 5		2	ND	ND	ND	ND	---	---	---	---
		5	11	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 6		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	1,2-Dibromo-3-chloropropane	17	All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 7		2	11	ND	ND	ND	---	---	---	---
		5	9.5	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
P - 1	7/18/2006	1	100	15.6	42	43.3	---	---	---	---
		3	8.1	5.3	ND	ND	All compounds Not Detected		---	---
		5	5.5	ND	ND	ND	---	---	---	---
P - 2	7/21/2006	1	25	ND	ND	4.2	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		---	---
		5	47	ND	ND	29.4	---	---	---	---
S - 1	6/14/2006	5	23	ND	ND	12.7	---	---	---	---
		10	28	ND	9.6	ND	---	---	---	---
		15	40	ND	3.6	13.5	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 2		5	24	ND	ND	12.2	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
S - 3		5	310	ND	85.6	219	---	---	---	---
		10	370	6.8	93.2	260	All compounds Not Detected		All compounds Not Detected	
		15	38	ND	ND	6.1	---	---	---	---
		20	22	ND	ND	ND	---	---	---	---

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Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
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Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
S - 4	6/13/2006	5	ND	ND	ND	ND	---	---	---	---
		10	24	ND	ND	3.7	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 8	7/19/2006	5	160	ND	29.6	117	---	---	---	---
		10	49	ND	7.9	37	---	---	---	---
		15	28	ND	1.9	22	---	---	---	---
		20	16	ND	ND	6	All compounds Not Detected		All compounds Not Detected	
S - 9		5	170	ND	10	145	---	---	---	---
		10	34	ND	8.1	23.5	All compounds Not Detected		All compounds Not Detected	
		15	23	ND	2.2	13.9	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
T - 1	7/18/2006	surface	190	ND	60.9	117	---	---	---	---
		1	44	ND	ND	16.3	---	---	---	---
		3	60	ND	ND	19.3	---	---	---	---
T - 2		surface	49	ND	ND	37.3	---	---	---	---
		1	220	ND	27.5	185.5	---	---	---	---
		3	25	ND	ND	5.2	---	---	---	---
T - 3		surface	530	ND	187.7	331	---	---	---	---
		1	180	2.4	64	108.8	---	---	---	---
		3	330	3.9	95.6	226	---	---	---	---
T - 4		surface	14	ND	ND	3.1	---	---	---	---
		1	10	ND	ND	ND	---	---	---	---
		3	10	ND	ND	ND	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
T - 5		surface	330	ND	238	91	---	---	---	---
		1	420	ND	108	285	---	---	---	---
		3	20	ND	ND	ND	---	---	---	---
TB - 1	6/13/2006	3	46	ND	8.8	32.1	---	---	---	---
		5	17	ND	ND	10	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 2		3	120	ND	31.7	86	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	5.5	ND	ND	ND	---	---	---	---
		15	5.6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 3		3	8900	1270	4450	3230	---	---	---	---
		5	440	50.8	207	181	---	---	---	---
		10	8.7	ND	ND	ND	---	---	---	---
		15	16	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 4		3	36	ND	3.9	23.5	---	---	---	---
		5	17	ND	ND	9.1	---	---	---	---
		10	240	ND	76.4	160	All compounds Not Detected		All compounds Not Detected	
		15	6.8	ND	ND	ND	---	---	---	---
TB - 5	6/15/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
TB - 6		3	18	ND	1.8	9.4	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
TH - 1	7/18/2006	1	14	ND	ND	2.2	All compounds Not Detected		---	---
		3	6.4	ND	ND	ND	---	---	---	---
		5	8.7	2.4	ND	ND	---	---	---	---
TH - 2		1	47	ND	12.6	28.4	---	---	---	---
		3	8.7	ND	ND	ND	---	---	---	---
		5	9	ND	ND	ND	All compounds Not Detected		---	---

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Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
TP - 1	7/20/2006	2	1100	ND	375	756	---	---	---	---
		5	3500	ND	1040	2400	---	---	---	---
		10	330	ND	22.3	279	All compounds Not Detected		All compounds Not Detected	
		15	110	ND	19.5	80.9	---	---	---	---
		20	86	ND	9.4	66.8	---	---	---	---
W - 1 - 37	6/16/2006	5	5.5	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	6.5	ND	ND	ND	---	---	---	---
W - 2 - 100		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 3 - 40		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 4 - 108	6/15/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 5 - 70		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 6 - 86		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 7 - 27		5	1900	14	929	905	---	---	---	---
		10	1600	295	790	517	Naphthalene p-Isopropyltoluene	470 69	2-Methylnaphthalene	1,100
W - 8 - 82		5	17	11	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 9 - 109		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 10 - 48	6/16/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	26	ND	ND	17.8	---	---	---	---
W - 11 - 99		5	11	ND	ND	1.9	---	---	---	---
		8.5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 12 - 102	6/15/2006	5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 13 - 94		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 14 - 60	6/16/2006	5	5.5	ND	ND	ND	---	---	---	---
		10	7.7	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 15 - 61	7/18/2006	5	27	ND	ND	ND	---	---	---	---
		10	43	6.8	ND	6.1	All compounds Not Detected		All compounds Not Detected	

on Subject Property

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			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-37AG	12/5/2006	10	<5.0	<1.8	<1.8	<1.8	All	...not detected	All compounds...	...not detected
CL-37A-G	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	Phenol	460
CL-B1-1	11/29/2006	3	16	<1.8	<1.8	11.7	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-B1-2	11/29/2006	3	17	<1.8	<1.8	10.3	All compounds...	...not detected	All compounds...	...not detected
		5	300	<18	53	232	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-CPlant1-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
CL-CPlant-3	12/4/2006	3	210	<1.8	138.3	68	---	---	---	---
		5	140	<1.8	103.4	36.7	---	---	---	---
		10	99	<1.8	72.1	24.8	---	---	---	---
		15	12000	3130	8200	240	sec-Butylbenzene 1,1,2,2-Tetrachloroethane	50 74	All compounds...	...not detected
CL-D1-1	12/4/2006	3	110	<3.6	13.7	87.9	All compounds...	...not detected	---	---
		5	220	<3.6	47.8	165	---	---	---	---
		10	72	<3.6	13.7	52.2	---	---	---	---
		15	56	<3.6	15.9	37.1	---	---	---	
CL-DR1-1	12/1/2006	5	5.8	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	9.9	3.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-DS1-1	12/1/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	6.9	<1.8	<1.8	<1.8	---	---	---	---
		15	9.3	<1.8	<1.8	3.6	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-DS1-2	12/1/2006	3	<10.0	<3.6	<3.6	<3.6	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	40	<1.8	5.3	32.3	---	---	---	---
CL-F1-1	12/1/2006	1	14000	1340	8100	4120	---	---	---	---
		3	23	<3.6	<3.6	<3.6	1,1-Dichloropropene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene Toluene	2 34 10 38 25 13 40 15 15 6.1 24	All compounds...	...not detected
		5	1100	247	611	260	---	---	---	---
		10	6.4	2.2	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-1	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	5.8	<1.8	<1.8	3.9	---	---	---	---
		8	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-2	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	Chlorobenzene Benzene	12 2.5	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-GAST1-1	12/1/2006	3	6.6	2.1	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	520	<9.0	173	330	---	---	---	---
		10	12	<3.6	<3.6	<3.6	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-S1-1	12/1/2006	3	1100	13	506	585	---	---	---	---
		5	810	166	419	228	Naphthalene	29	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-1	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-2	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---

on Subject Property

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-TF1-3	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-4	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-1	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-3	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
on Subject Property										
CL-TF3-1	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF3-2	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Phenol	380
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-136G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	420
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-146DG	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-147G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	27	<1.8	14.7	3.8	---	---	---	---
CL-W-46G	12/6/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-47AG	12/6/2006	5	5.8	<1.8	<1.8	<1.8	---	---	---	---
		10	8.5	<1.8	<1.8	1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	4,200

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Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-W-47P	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-61P	12/5/2006	5	12000	2690	6200	2820	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Ethylbenzene Isopropylbenzene Naphthalene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	1,100 55 41 73 1,500 180 310 240	2-Methylnaphthalene Bis(2-ethylhexyl)phthalate	5,500 6,000
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-62P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	3,400
CL-W-63P	12/5/2006	10	7100	2354	3600	1107	---	---	---	---
		15	12000	3997	6130	2130	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Butylbenzene n-Propylbenzene o-Xylene p-Isopropyltoluene sec-Butylbenzene tert-Butylbenzene	270 200 2,900 5,900 370 14,000 1,400 1,800 140 690 5,100 290	Naphthalene	17,000
CL-W-74P	12/6/2006	5	5.2	<1.8	<1.8	3.3	All compounds...	...not detected	All compounds...	...not detected
		10	5.5	<1.8	<1.8	3.4	---	---	---	---

on Subject Property

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Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-W-78P	12/6/2006	5	1100	391	408	298	---	---	---	---
		10	240000	86000	116000	37000	1,2,4-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Butylbenzene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	37,000 12,000 29,000 19,000 23,000 19,000 6,000 19,000 8,200 12,000	2-Methylnaphthalene	24,000
		15	6600	1973	3440	1210	---	---	---	---
CL-W-91P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-92P	12/6/2006	5	<5.0	<1.8	<1.8	3.4	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	660
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-93P	12/7/2006	5	49	<3.6	<3.6	35.3	All compounds...	...not detected	All compounds...	...not detected
		10	19	<3.6	<3.6	8.2	---	---	---	---

--- = Not Analyzed ND=Not Detected
TPH - total petroleum hydrocarbons
ug/kg - micrograms per kilogram or parts per billion
mg/kg - milligrams per kilogram or parts per million

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
AD-1-2	07/20/2006	2	ND	24	ND	ND	23	2.6	8.3	5.3	0.041	ND	16	ND	21	35
AD-2-10	07/20/2006	10	2.9	21	ND	0.73	13	1.7	5	2.6	0.02	ND	8.8	ND	14	21
AD-3-10	07/20/2006	10	ND	29	ND	ND	10	ND	3.9	3.6	0.027	ND	2.7	ND	9.6	13
B-1-1	07/21/2006	1	9.4	65	0.58	ND	38	4.9	12	7.7	0.12	2.1	22	ND	43	39
CON-1-10	07/21/2006	10	4.3	37	ND	ND	29	3.6	8.5	4.2	0.029	ND	24	ND	20	31
CP-1-10	07/19/2006	10	2.6	28	ND	ND	8.7	2	4.4	2.3	ND	ND	7.9	ND	10	13
CP-2-15	07/20/2006	15	7	59	ND	ND	37	4.4	15	6.2	0.037	ND	19	ND	32	47
CPA-1-10	07/19/2006	10	5.3	70	ND	0.5	27	3.5	9.2	4.9	0.033	ND	18	ND	30	31
CPA-2-5	07/19/2006	5	4	52	ND	0.55	16	2.5	5.9	3.2	ND	ND	13	ND	19	19
D-1-20	07/20/2006	20	3.1	45	ND	ND	12	2.1	6.1	4.7	0.03	3.5	11	ND	13	31
D-2-15	07/20/2006	15	7	40	0.52	2.2	61	25	21	4.1	0.13	3.4	31	ND	35	150
D-4-5	07/18/2006	5	ND	28	ND	ND	5.8	ND	4.1	4.8	ND	ND	2.6	ND	8.7	9.3
DP-1-3	06/13/2006	3	2.7	34	ND	0.56	9.3	1.9	4.2	3.2	ND	ND	8.5	ND	11	16
DP-2-3	06/13/2006	3	3	53	ND	ND	5.6	1.6	2.8	3.8	ND	ND	5.8	ND	9.2	9.2
FT-1-5	07/19/2006	5	ND	4.4	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	2.6	11
FT-2-10	07/19/2006	10	3.5	48	ND	ND	13	3.1	6.2	3.6	ND	ND	10	ND	16	17
GS-1-10	06/14/2006	10	2.7	24	ND	ND	4.4	1.8	3.2	2.5	ND	ND	4.9	ND	6.8	14
GS-2-15	06/14/2006	15	2.3	18	ND	ND	3.8	1.1	2.7	ND	ND	ND	3.2	ND	5.6	21
IP-1-15	06/14/2006	15	ND	20	ND	0.74	3.8	1.3	3.6	2.3	ND	ND	4.6	ND	6	25

on Subject Property

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Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
IP-2-5	06/14/2006	5	ND	37	ND	ND	1.9	ND	3.2	3	0.033	ND	2.4	ND	4.7	7.8
IP-3-3	06/14/2006	3	2.5	22	ND	ND	4.7	ND	2.9	2.2	ND	ND	4.8	ND	6.3	38
IP-4-10	06/14/2006	10	2.8	25	ND	0.56	5.3	1.8	3.3	2.8	ND	ND	6.5	ND	7.4	42
IPV-1-5	06/14/2006	5	ND	15	ND	ND	1.4	2.9	ND	ND	ND	ND	4.6	ND	2.7	ND
IPV-2-3	06/14/2006	3	ND	22	ND	ND	3.1	1.5	2.7	ND	ND	ND	3.5	ND	4.9	8.4
LOT-1-3	07/18/2006	3	4.1	26	ND	ND	9.7	2.7	5.2	3.1	ND	ND	12	ND	18	15
OMP-1-2	06/12/2006	2	ND	430	ND	ND	12	1.8	31	11	0.14	ND	18	ND	21	94
OMP-2-2	06/12/2006	2	ND	8.9	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	2.1	ND
OMP-3-20	06/12/2006	20	ND	16	ND	ND	5.3	ND	2.1	2.3	0.02	ND	4.8	ND	5.7	8.1
OMP-4-5	06/12/2006	5	3.5	28	ND	ND	9.4	1.5	4.3	3.2	0.02	ND	7.1	ND	11	18
OMP-5-15	06/12/2006	15	4.9	20	ND	0.66	7.4	2	3.4	2.8	0.023	ND	6.7	ND	9.7	14
OMP-6-15	06/12/2006	15	2	39	ND	ND	13	1.5	7.5	4.9	0.042	3.1	4.7	ND	10	15
OMP-7-15	06/12/2006	15	2.7	25	ND	ND	7.8	1.6	2.8	2.9	0.02	ND	4.3	ND	12	8.5
S-1-15	06/14/2006	15	2.3	33	ND	0.98	5.4	1.9	6.2	3	ND	ND	9	ND	9.6	15
S-2-5	06/14/2006	5	3.7	33	ND	0.53	5.9	2.8	4.9	2.9	ND	ND	7.7	ND	9.7	13
S-3-10	06/14/2006	10	3.8	37	ND	0.74	5.4	2.3	5.3	2.6	ND	ND	9.2	ND	10	11
S-4-15	06/13/2006	15	13	32	ND	ND	35	4.1	10	3.3	0.029	4.1	25	ND	25	58

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Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
S-8-20	07/19/2006	20	5.9	65	ND	0.61	32	4.2	13	6.3	0.029	ND	21	ND	35	44
S-9-10	07/19/2006	10	2.3	29	ND	ND	7.8	1	3.1	2	ND	ND	5.9	ND	12	14
TB-1-15	06/13/2006	15	6.2	25	ND	ND	25	2.7	9.7	3	0.036	ND	28	ND	16	43
TB-2-15	06/13/2006	15	2.8	45	ND	ND	27	2.2	9.7	4	ND	3.2	7.5	ND	20	29
TB-3-15	06/13/2006	15	2.1	26	ND	ND	22	1.9	9.2	2.5	ND	2.7	7.9	ND	12	30
TB-4-10	06/13/2006	10	14	89	ND	2.2	31	12	11	5.5	ND	3.9	40	ND	28	49
TB-5-5	06/15/2006	5	ND	12	ND	ND	4.4	ND	ND	ND	0.025	ND	2.5	ND	4.9	ND
TB-6-3	06/15/2006	3	ND	19	ND	ND	6.5	ND	2.4	2.5	ND	ND	2.3	ND	4.5	ND
TP-1-10	07/20/2006	10	3.6	43	ND	0.5	9.7	1.4	5.4	2.7	0.15	ND	12	ND	26	16
on Subject Property																
W-10-48-5	06/16/2006	5	ND	24	ND	ND	5.5	ND	3.6	2.5	ND	ND	3.9	ND	7	7.2
W-11-99-8.5	06/16/2006	8.5	ND	17	ND	ND	3.2	ND	ND	ND	ND	ND	4.4	ND	9.7	5.8
W-12-102-10	06/15/2006	10	2.3	33	ND	ND	4.5	1.3	3.8	2.7	ND	3.2	4.1	ND	7.2	8.7
W-1-37-5	06/16/2006	5	ND	55	ND	ND	4.5	ND	2.3	2.8	ND	ND	3.2	ND	7.3	ND
W-13-94-5	06/15/2006	5	ND	4.3	ND	ND	2.3	3.9	ND	ND	ND	ND	ND	ND	3.3	ND
W-14-60-10	06/16/2006	10	3.6	390	ND	0.71	16	ND	7	10	0.11	ND	4.3	ND	9	18
W-15-61-10	07/18/2006	10	7.9	54	ND	0.51	21	2	7.5	3.4	ND	2.6	15	ND	27	22
W-2-100-10	06/16/2006	10	ND	9.5	ND	ND	2.2	ND	ND	ND	ND	ND	2.7	ND	3.6	5.9
W-3-40-10	06/16/2006	10	ND	11	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	1.6	ND
W-4-108-5	06/15/2006	5	ND	28	ND	ND	5.5	1.1	2.8	2.4	ND	ND	4.5	ND	7.1	9.3
W-5-70-10	06/15/2006	10	ND	27	ND	ND	6.2	1.1	3.7	3	ND	ND	4.3	ND	6.8	11

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Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
W-6-86-5	06/15/2006	5	ND	17	ND	ND	2.7	ND	2	ND	ND	ND	ND	ND	3.4	5.7
W-7-27-10	06/15/2006	10	ND	20	ND	ND	3.6	ND	2.1	2.7	ND	ND	3.2	ND	4.8	5.2
W-8-82-10	06/15/2006	10	ND	20	ND	ND	2.6	ND	ND	2.1	ND	ND	ND	ND	2.1	ND
W-9-109-5	06/15/2006	5	ND	5.9	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	2.1	28
CL-37A-G	12/05/2006	5	ND	22	ND	ND	5.1	ND	2	2.2	ND	ND	4.3	ND	7.3	8.4
CL-B1-1	11/29/2006	3	ND	30	ND	ND	5.2	1.5	3.6	2.8	ND	ND	3.1	ND	6.7	12
CL-B1-2	11/29/2006	3	2	28	ND	ND	4.3	1.3	2.4	3	ND	ND	3	ND	6.3	6.4
CL-CPlant1-2	12/04/2006	20	5.5	34	ND	0.66	5.6	2.2	3.7	2.5	ND	2.4	4.9	ND	7.3	11
CL-CPlant-3	12/04/2006	15	9.9	23	ND	ND	5	2	2.7	2.2	ND	7.8	4.6	ND	8.4	10
CL-D1-1	12/04/2006	3	6.1	89	ND	0.57	10	1.4	9.4	14	0.037	5.7	6.5	ND	24	160
CL-DR1-1	12/01/2006	5	5.4	63	ND	ND	13	2.2	5	4.6	ND	2.8	7.3	ND	22	11
CL-F1-1	12/01/2006	3	3.4	92	ND	ND	8.5	1.8	5.3	5.6	ND	ND	6.4	ND	15	12
CL-FEB1-2	12/06/2006	3	ND	34	ND	ND	3.3	1.6	2.8	ND	ND	ND	3.2	ND	5.4	ND
CL-GAST1-1	12/01/2006	3	6.4	45	ND	ND	10	1.1	3.7	3.8	ND	3.5	4.5	ND	33	9.8
CL-S1-1	12/01/2006	5	2	20	ND	ND	3.1	ND	ND	2.2	ND	ND	ND	ND	6.8	ND
CL-TF1-1	11/29/2006	3	ND	13	ND	ND	2.2	ND	ND	2	ND	ND	ND	ND	3.3	ND
CL-TF1-2	11/29/2006	20	ND	26	ND	ND	5.9	ND	2.2	3.2	ND	ND	2.6	ND	5.3	7.8
CL-TF1-2	11/29/2006	3	ND	28	ND	ND	6.3	1.4	2.7	3.2	ND	ND	3.5	ND	7.7	8.6
CL-TF1-3	11/29/2006	3	ND	14	ND	ND	2.8	ND	2	ND	ND	ND	ND	ND	3.7	5.3
CL-TF1-4	11/29/2006	3	ND	27	ND	ND	4.3	1.2	2.3	2.8	ND	ND	2.1	ND	5.9	5.9

on Subject Property

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
CL-TF2-2	12/04/2006	3	3.5	33	ND	ND	7	2.1	3.2	3.2	0.031	9.1	6.1	ND	9.2	15
CL-TF2-3	12/04/2006	3	2.4	19	ND	ND	3.7	1.1	ND	ND	ND	6.8	3.5	ND	4.9	8.1
CL-TF3-1	12/05/2006	3	ND	13	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	3.3	ND
CL-TF3-2	12/05/2006	3	ND	27	ND	ND	3	1.3	ND	ND	ND	2.9	2.1	ND	4.3	6
CL-W-136G	12/07/2006	5	ND	22	ND	ND	3	2.6	2.3	ND	ND	ND	3	ND	6.9	ND
CL-W-146DG	12/04/2006	5	ND	15	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	5.4	ND
CL-W-147G	12/07/2006	5	ND	16	ND	ND	5.3	1.1	ND	ND	ND	3.3	3.1	ND	7.7	5.7
CL-W-46G	12/06/2006	5	7.9	32	ND	3.2	11	5.3	2.2	2.6	ND	17	8.9	2.6	40	5.6
CL-W-47AG	12/06/2006	10	ND	12	ND	ND	4	ND	ND	2.2	0.035	ND	2.9	ND	6.3	5
CL-W-47P	12/04/2006	5	ND	15	ND	ND	2.7	ND	2	ND	ND	2.9	2.9	ND	4.3	9.8
CL-W-61P	12/05/2006	5	ND	22	ND	ND	2.8	ND	ND	ND	ND	ND	3.8	ND	7.2	ND
CL-W-62P	12/05/2006	10	ND	9.9	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	4.8	ND
CL-W-63P	12/05/2006	15	ND	15	ND	ND	1.7	ND	ND	ND	ND	ND	3.1	ND	5.7	ND
CL-W-74P	12/06/2006	5	4.7	37	0.75	ND	14	2.9	10	5.4	0.022	5.3	17	ND	13	28
CL-W-78P	12/06/2006	10	ND	12	ND	ND	2	1.2	ND	ND	ND	ND	4	ND	6.4	ND
CL-W-91P	12/05/2006	5	2.3	35	ND	ND	8.6	1.3	3.7	4.3	ND	ND	5.9	ND	11	8.9
CL-W-92P	12/06/2006	5	2.2	32	ND	6.1	9.5	2.6	2.1	ND	ND	15	4.4	ND	35	16
CL-W-93P	12/07/2006	5	4.9	52	ND	15	79	2.9	18	ND	0.024	5.9	51	ND	37	61

on Subject Property

* No concentrations of Silver, Thallium, or Antimony were detected in any of the sampled locations; therefore, these compounds are not included on this table.

ug/kg - micrograms per kilogram or parts per billion

mg/kg - milligrams per kilogram or parts per million

ND-Not Detected

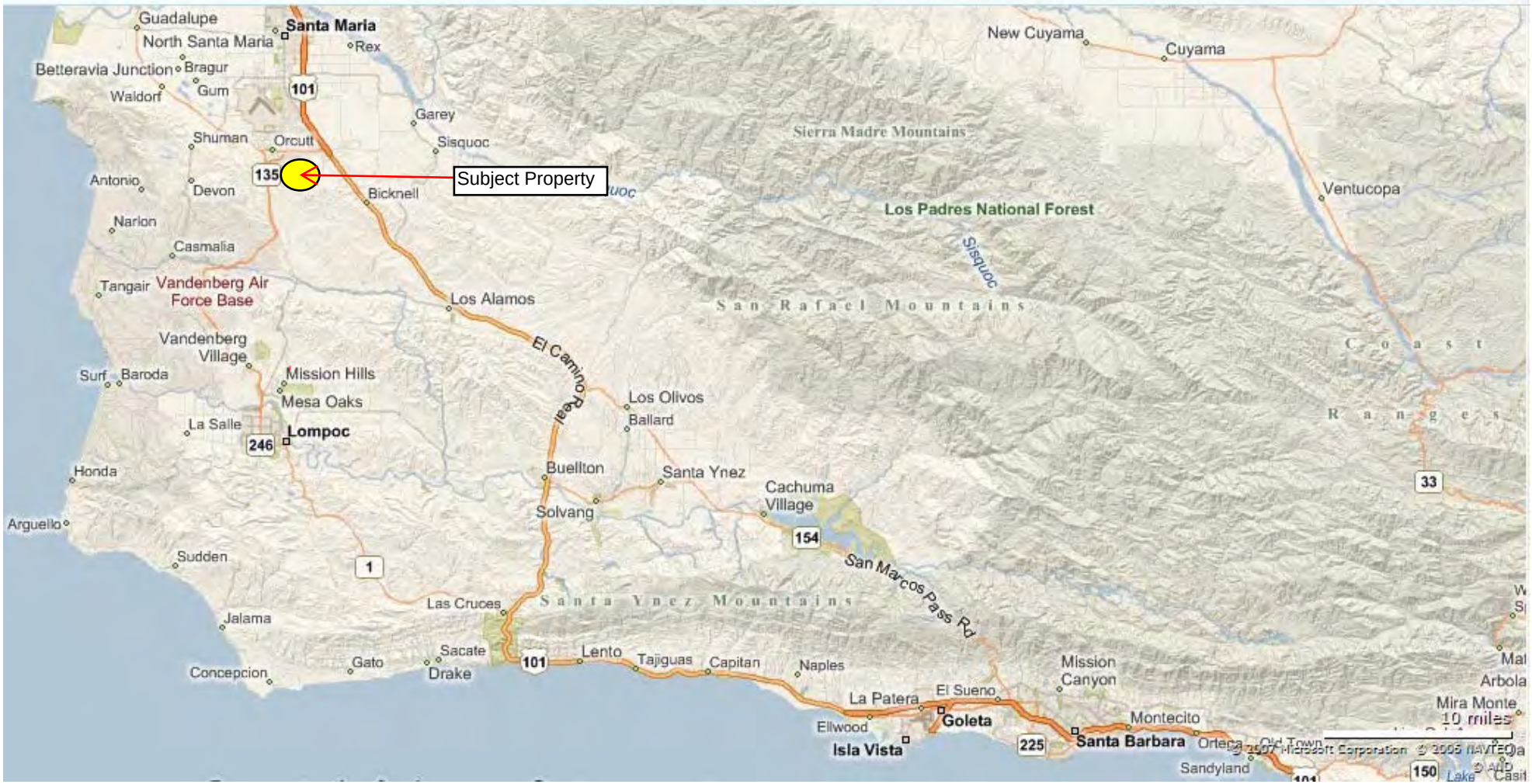
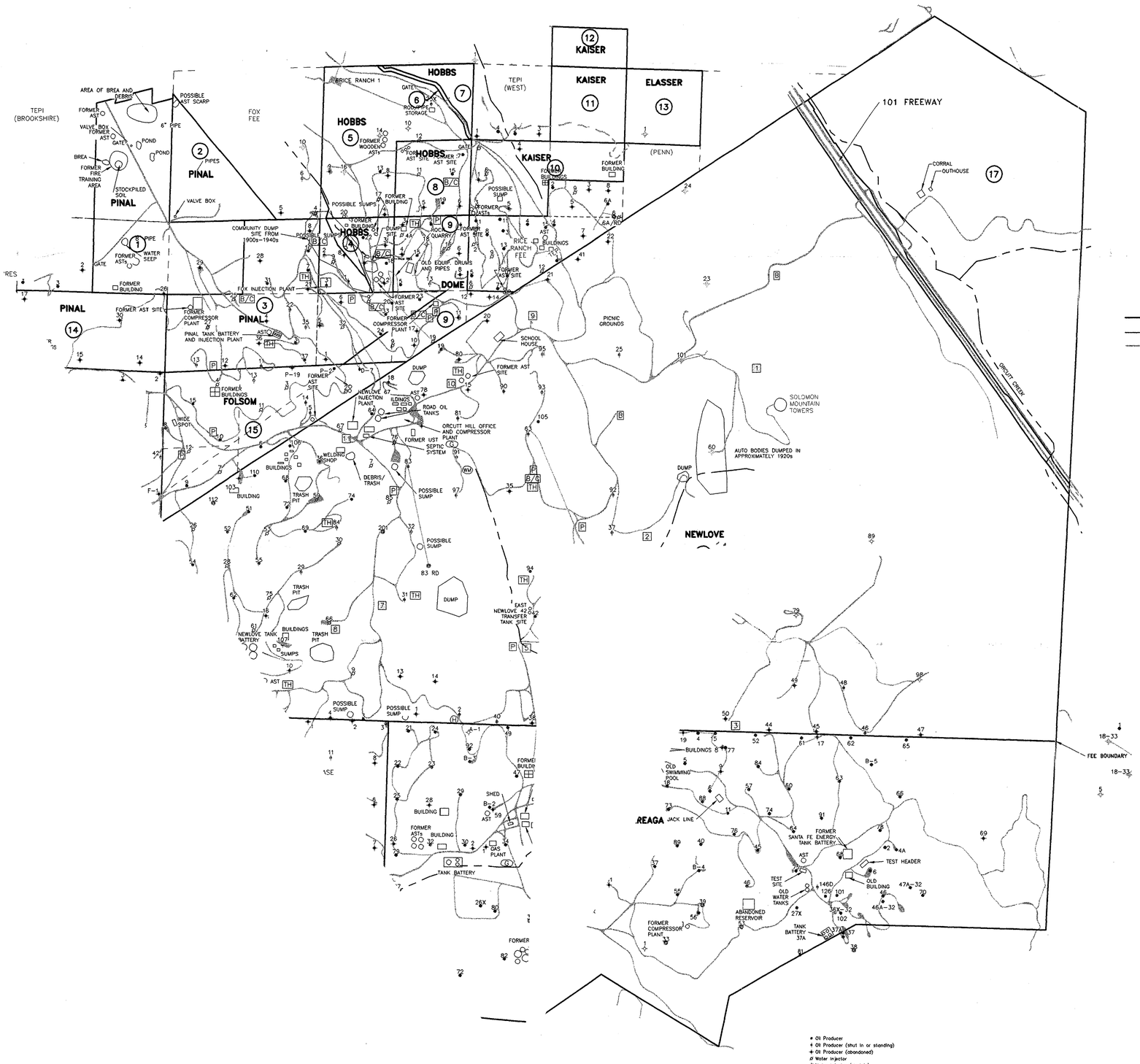


Figure 1

Orcutt Oil Field
Location Map
Newlove and Careaga Leases
Orcutt, CA

TR-31.DWG-10/19/00



LEGEND

- PARCEL BOUNDARY
- INTERMITTENT STREAM
- ROAD
- (5) PARCEL NUMBER
- OIL PRODUCER
- OIL PRODUCER (SHUT IN OR STANDING)
- OIL PRODUCER (ABANDONED)
- WATER INJECTOR
- WATER INJECTOR (SHUT IN)
- PLUGGED & ABANDONED (OIL SHOWS)
- PLUGGED & ABANDONED
- WATER INJECTOR (ABANDONED)
- PROPOSED LOCATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE
- [1] THREE SATELLITE DISHES
- [2] CONCRETE PAD
- [3] BRICK/CABLE DEBRIS
- [4] PICNIC AREA
- [5] WATER HOLE/TROUGH
- [6] SEPARATOR (CAREAGA SALES) & METER
- [7] 125-GALLON DEMULSIFIER TANK
- [8] ASPHALTIC MATERIAL ON PAD AND ON SLOPE TO SOUTH
- [9] USAF WEATHER STATION
- [10] RADIO TOWER AND CONCRETE BLOCK BUILDING
- [11] MICROWAVE STATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE

PARCEL	FIGURE NO.	AREA (APPROXIMATE)
1	3	141.9 ACRES
2	4	50.5 ACRES
3	5	157.4 ACRES
4	7	24.4 ACRES
5	8	101.5 ACRES
6	9	3.0 ACRES
7	9	15.3 ACRES
8	10	40.2 ACRES
9	11	73.4 ACRES
10	12	61.2 ACRES
11	13	39.7 ACRES
12	14	19.7 ACRES
13	15	40.1 ACRES
14	16	81.5 ACRES
15	17	127.5 ACRES
16	18	4046.8 ACRES
17	27	436.4 ACRES

REFERENCES:
DAMES & MOORE (1995)
CALIFORNIA DEPARTMENT OF CONSERVATION (2000)
L & P CONSULTANTS (2001)
USGS (1974)

0 1000 Feet
SCALE

N W E S

Harding ESE
A MACTEC COMPANY
2171 CAMPUS DRIVE, SUITE 100
IRVINE, CA 92612

DWG BY	NMM
DATE	6/19/01
REV BY	BAR
REVISED	10/01

SITE MAP

NUEVO ENERGY COMPANY
ORCUTT HILL AREA
SANTA BARBARA COUNTY, CA.

FIGURE NO. 2

PROJECT NO. 640268

DATE PLOTTED: 10/19/01

FILE: NUEVO\ORCUTT HILL\0500-0601-SITE MAP

North Hills

Existing Facilities & Disturbances

Existing Use & Development Areas

Revisions

Print Date:
May 17, 2007

Picnic Grounds

Mt. Solomon Facility

Communications Facility

Historic Orcutt Schoolhouse

Oil Field Office

Oil Operations & Headquarters Offices

Orcutt Community Plan Area

Inset 1

Inset 2

Inset 3

Inset 4

CALIFORNIA 135

101

Legend

- Amendment Area Boundary - Orcutt Fee (APN - 101-020-074) Source: LDC (July 2006)
- Oil Operations & Headquarters Offices
- Existing Dirt Roads
- Major Highways
- Proposed Circulation - Source: Calthorpe (April 2007)
- Existing Facility
- Development Area Footprint - Source: Calthorpe (March 2007)
- Potential Rural Lot Areas - Source: Calthorpe (March 2007)
- Orcutt Community Plan Area - Source: Digitized by FORMA
- Santa Barbara Aerial Source: AirPhotoUSA (Flown Sept. 2004)
- Waterstone Sample Points - Source: LDC (May 2007) *(Labels in Red)*

Wells

- SX Locations - Source: BreitBurn (Aug. 2006)
- Confirmed Well Locations - Source: LDC (March 2007)
- Unconfirmed Well Locations - Source: Breitburn (March 2006)

Subsurface Exploration - Source: Seward (May 2007)

- CPT Boring
- Hollow - Stem Boring
- Geologic Test Pit
- Geotech Test Pit
- Bucket - Auger Boring
- Fault Trench

Figure 3

Index Map Showing Environmental and Geotechnical Sampling Locations

INSETS 1-4
ARE SHOWN ON THE
FOLLOWING PAGES

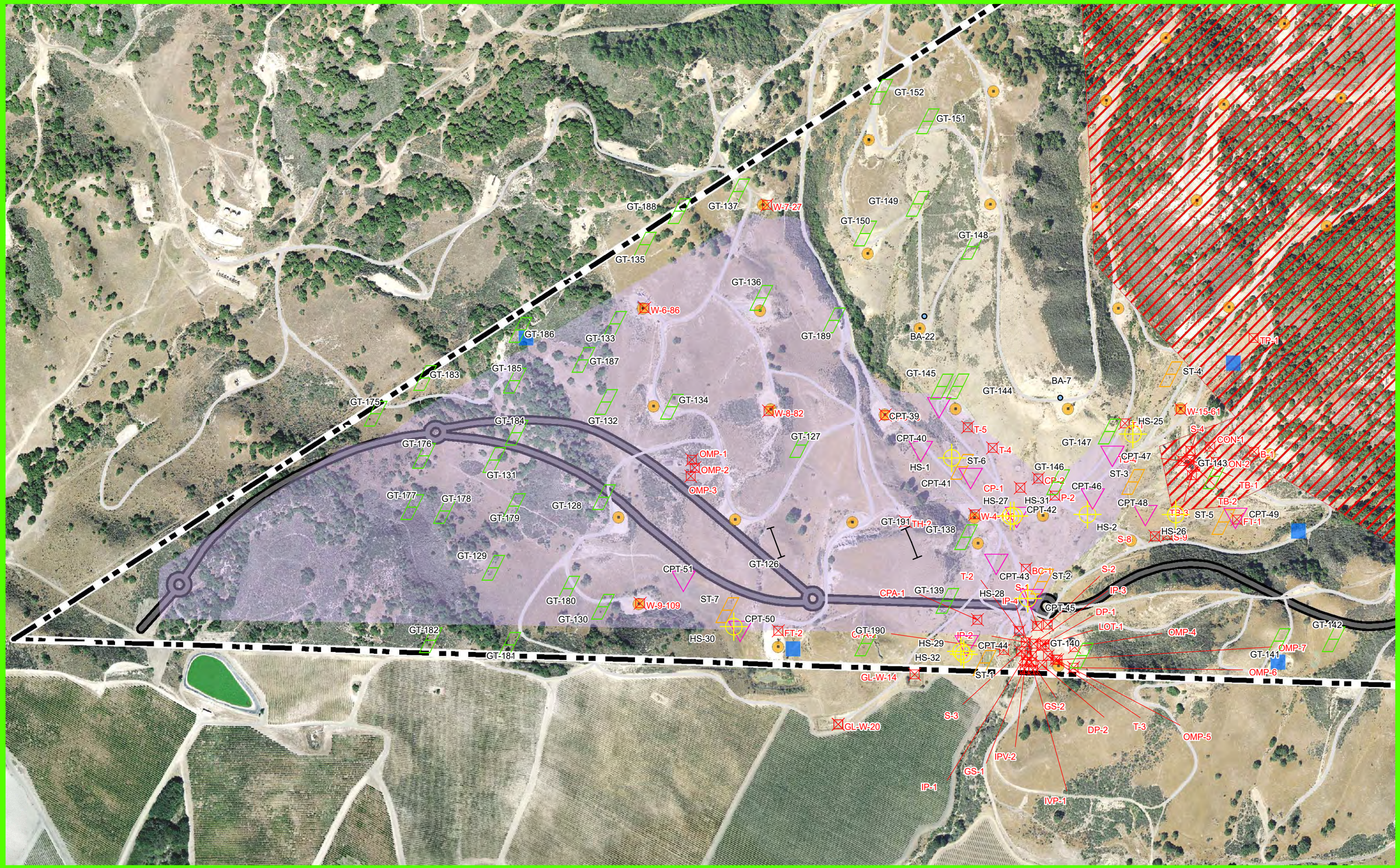
Careaga lease is shown on Insets 2 and 4 (sample IDs begin with CL-).

FORMA Systems

0 500 1,000 2,000 3,000 Feet

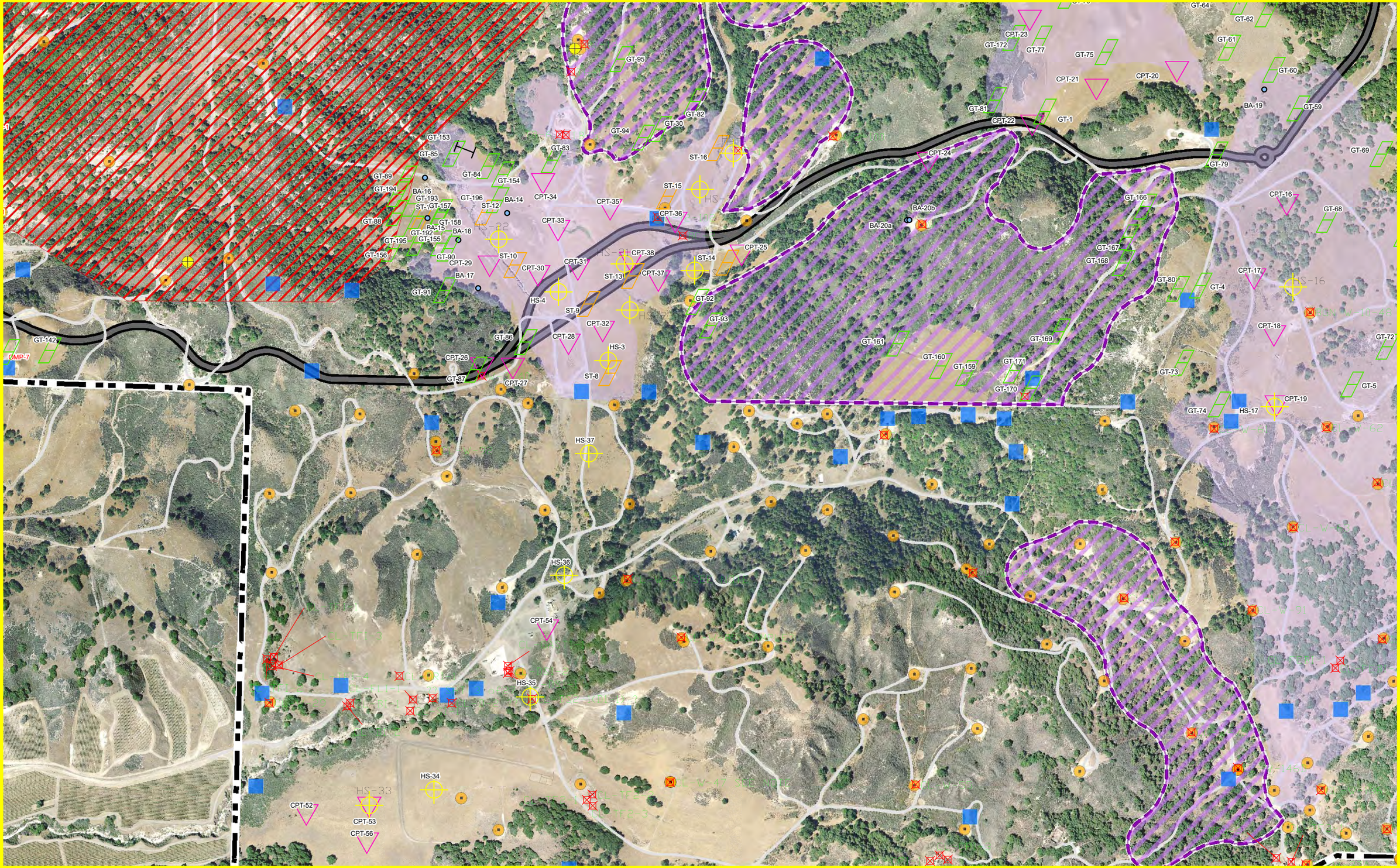
* In the event that Breitburn has not provided a well status, the condition of the well reverts to the status reported by the Department of Oil Gas & Geothermal Resources.

mxd: historic_use_location_fs051507



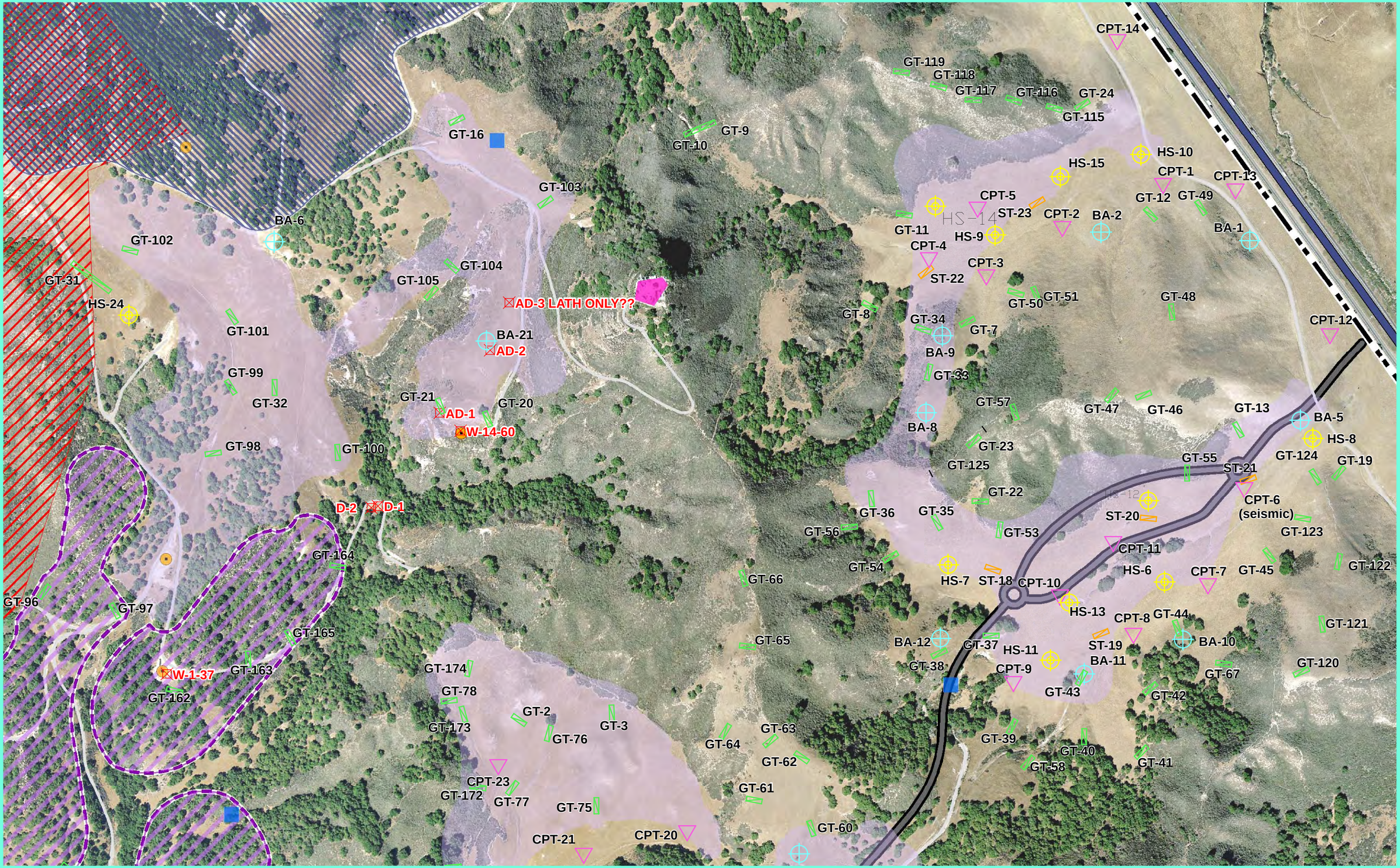
Inset 1

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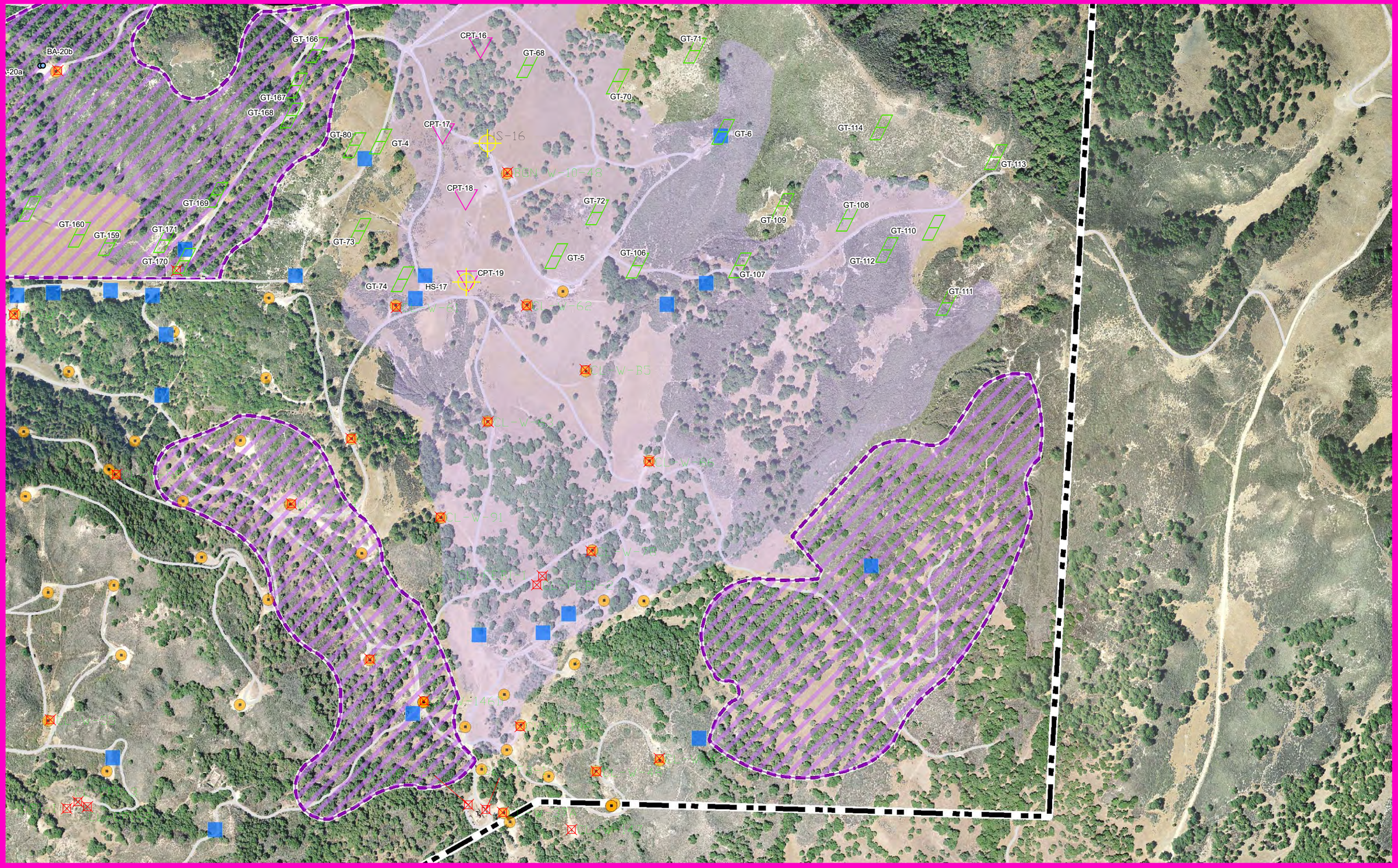
Inset 2

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Inset 3

mxd: inset3_newlove_fs051507



Inset 4

mxd: inset4_fs051507

Appendix D
Field Sampling Protocols

WATERSTONE ENVIRONMENTAL, INC,
STANDARD PROTOCOL
FOR
SOIL SAMPLING USING DIRECT PUSH
DRILL METHOD

Undisturbed soil samples are collected using a modified piston drive sampler. The soil sampling device is deployed, by a Direct Push rig at all locations. The Direct Push unit is a rig with a hydraulic system that is used to push hollow steel rods with a sampling device at the end of the rods through the subsurface. The Direct Push rig pushes the sampling device to the targeted depth for sample retrieval.

Once the soil sampling device is positioned at the appropriate depth, the tip of the device is retracted inside the soil sampling probe and the probe is advanced 2.0 feet to allow soil to enter the sampling device. The sampling device is lined with two-foot-long acetate liners. Upon retrieval of the soil sampling device, the brass tube at the lower end of the sampler is covered with Teflon tape and plastic end caps, labeled identifying the date the sample is collected and an identification designation, and placed in a cooler to be shipped to a certified analytical laboratory.

The material in the remaining brass tubes/acetate sleeve are placed in a ziplock bag to conduct headspace testing on the material after sufficient volatilization had occurred (approximately 5 minutes). The probe of a portable photoionization detector (PID) calibrated to isobutylene is placed inside the bag to monitor for volatile organic vapors. Following headspace measurements, the sample is visually inspected by the site hydrogeologist and classified using the Unified Soil Classification System. The soil is inspected for color, texture, grain size distribution, moisture content, odor, and any other distinguishing characteristics. Lithologic data, PID readings and other pertinent data are recorded on a boring log.

Prior to sampling, all reusable sampling equipment is decontaminated by washing in a solution of non-phosphate soap and water. The equipment is then double rinsed in distilled water. The sample push rods are steam cleaned on-site between each sample location. The rinsate water is placed in Department of Transportation approved 55 gallon drums and centralized to an on-site location.

All soil sample locations are backfilled with bentonite chips and hydrated and then capped with asphalt patch or concrete to grade.

WATERSTONE ENVIRONMENTAL, INC.
STANDARD PROTOCOL
FOR
COLLECTION OF SOIL SAMPLES
BY TERRA CORE SAMPLER

This method minimizes the loss of volatile compounds from soil samples in accordance with EPA Method 5035. Soil or other solid sampling material is collected in-situ or from the end of a sample collected by means of a drive sampler, split spoon sampler or direct push rig. In some instances, the Terra Core™ device may be driven directly into the soil, such as within an intact block of undisturbed soil brought the surface within a backhoe bucket.

Prepared glassware is obtained from the laboratory, namely 40ml glass VOAs vial containing the appropriate preservative(s). With the plunger seated in the handle, push the Terra Core™ into the soil. Wipe all soil or debris from the outside of the Terra Core™ sampler. The soil plug should be flush with the mouth of the sampler. Remove any excess soil that extends beyond the mouth of the sampler. Rotate the plunger that was seated in the handle top 90° until it is aligned with the slots in the body. Place the mouth of the sampler into the 40ml VOA vial containing the appropriate preservative, and extrude the sample by pushing the plunger down. Quickly place the lid back on the 40ml VOA vial. Repeat this process until all of the containers of a sample set are filled.

The sample is properly labelled and placed in a cooler with ice for temporary storage and transfer to the analytical laboratory.

WATERSTONE ENVIRONMENTAL, Inc.,
STANDARD PROTOCOL
FOR PERFORMING A SOIL VAPOR SURVEY

The survey is performed in accordance with the protocols outlined in the California Environmental Protection Agency (DTSC/LARWQCB/SFRWQCB) Advisory for Active Soil Gas Investigations (July 2015). The soil gas sampling system is constructed of stainless-steel, poly, and Nylaflow or Teflon components. Instrumentation associated with the sampling system includes a calibrated flow-meter and vacuum gauge.

Semi-permanent soil gas boring locations will be constructed using a stainless-steel probe that will be driven into the ground using a direct push sampling rig or by drilling a boring with a hollow stem auger drill rig. The probe rod will be advanced to the desired sampling depth. The probe will then be removed from the borehole, six-inches of clean, graded sand will be poured to the bottom of the bore hole and then tubing will be inserted into the borehole. The bottom end of the tubing will be outfitted with a filter that allows for the free flow of soil gas from the formation through the tubing to the surface, where the samples were subsequently obtained. Once the tubing is in place, six-inches of clean, graded sand will be poured around the filter at the bottom of the tubing to allow for diffusion of soil vapors. One foot of non-hydrated bentonite will then be placed above the sand pack. The remaining annulus will be filled with hydrated bentonite/cement slurry to grade. A drawing of the proposed probe tip design and construction is attached. The equilibration time will be either two hours (if direct push) or 48 hours (if hollow stem auger) depending on the installation method.

A default of 3 purge volumes will be used per LARWQCB/DTSC guidance.

Leakage during soil gas sampling may dilute samples with ambient air and produce results that underestimate actual site concentrations or contaminate the sample with external contaminants. Leak tests should be conducted to determine whether leakage is present. A leak test will be conducted at every soil gas probe. A tracer compound, such as isopropanol (not a suspected chemical of concern), may be used as a leak check compound to be placed at any location where ambient air could enter the sampling system or where cross contamination may occur, immediately before sampling. Locations of potential ambient air intrusion include sample system connections, surface bentonite seals (e.g., around rods and tubing) or the top of the temporary soil gas probe. The leak test will include an analysis of the leak check compound. If a leak check compound is detected in the sample, the following actions should be followed:

- The cause of the leak should be evaluated, determined, and corrected through confirmation sampling;
- If the leak check compound is suspected or detected as a Site-specific contaminant, a new leak check compound should be used;
- If leakage is confirmed and the problem cannot be corrected, the soil gas probe should be properly decommissioned;
- A replacement probe should be installed at least 5 feet from the original probe decommissioned due to confirmed leakage, and
- The leak check compound concentration detected in the soil gas sample should be included and discussed in the report.

After purging, soil gas samples will be withdrawn from the tubing using a syringe fitted with a disposable needle and gas-tight valve. The soil gas samples will immediately be transferred to the on-site mobile lab for direct injection into a gas chromatograph/mass spectrometer (GC/MS) for analysis of VOCs and TPH. The soil gas sample's holding time will be 30 minutes if in glass syringes, or 6 hours if in tedlar bags. A field log will be maintained to document probe installation completion time and the start of purging time to validate the equilibration times and documentation of sample collection time to validate holding time after the sample analysis.

In accordance with the LARWQCB/DTSC protocols, a minimum of one field duplicate sample for each day of soil gas sampling will be collected and analyzed for VOCs, at a minimum frequency of ten percent. The duplicate samples will be collected in separate containers immediately after the primary samples are analyzed. A soil gas method blank sample will also be analyzed for each day of soil gas sampling.

Once sampling is completed, the upper portion of the borehole and the sample tubing will be removed and the borehole annulus will be backfilled with hydrated bentonite to grade.

Prior to sampling, all reusable sampling equipment is decontaminated by washing in a solution of non-phosphate soap and water. The equipment is then rinsed in tap water, and then rinsed in distilled water. The rinsate water is placed in Department of Transportation approved 55 gallon drums and centralized to an on-site location or used to hydrate the bentonite used to seal the borehole, and mix with the concrete to cap the borehole. All soil vapor sample locations are backfilled with bentonite chips and hydrated and then capped with asphalt patch or concrete to grade.

Appendix E
Soil Boring Logs

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-6

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			ML	0,10,90,0	Silt with Sand - Brown (10YR 4/3), non-plastic, slightly moist, no odor, fine to medium grained sand, well graded			
-5								0.0
-10			ML	0,10,90,0	Silt with Sand - Brown (10YR 4/3), non-plastic, slightly moist, no odor, fine grained sand, poorly graded			0.0
-15			SM	0,60,30,10	Silty Sand with Clay - Brown (10YR 4/3), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-20								

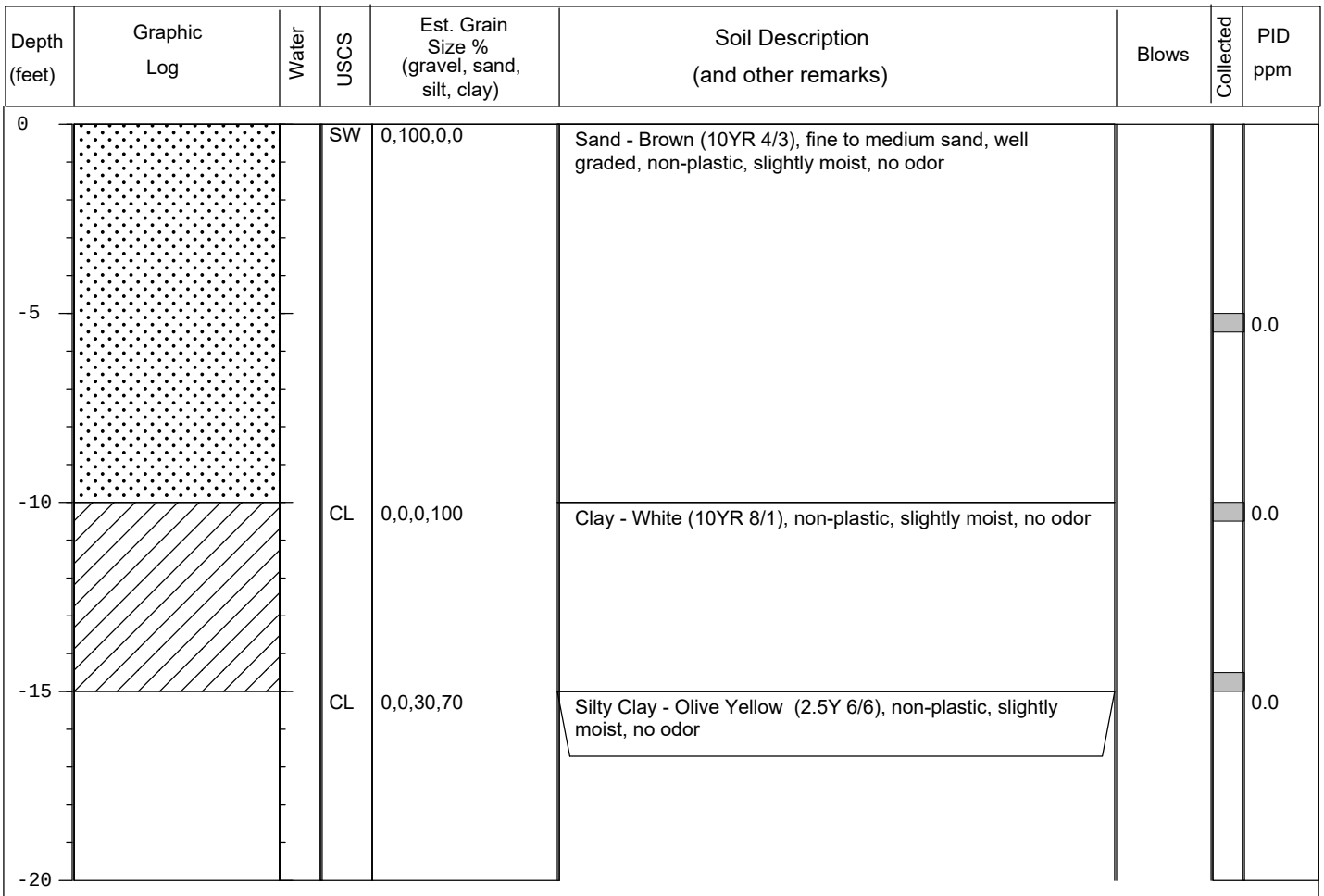
WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-60

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY



WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-61

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,90,10,0	Sand with Silt - Brown (10YR 4/3), very fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-5								0.0
-10								0.0
			SW	0,90,10,0	Sand with Silt - Light Olive Brown (10YR 6/4), very fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			
-15								0.0
					Soil vapor probes installed at 10 and 15 feet below ground surface			
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-63

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **25**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			ML	10,0,90,0	Silt with Gravel - Brown (10YR 4/3), non-plastic, slightly moist, no odor			0.0
-5			ML	10,0,90,0	Silt with Gravel - Brown (10YR 4/3), non-plastic, slightly moist, slight odor			4.0
			SP	0,90,10,0	Sand with Silt - Light Olive Brown (10YR 6/4), coarse grained sand, poorly graded, dry, no odor			
-10			GP	70,30,0,0	Sandy Gravel (Limestone) - White (5YR 8/1), coarse grained sand, poorly graded, dry, no odor			0.0
-15								0.0
-20			SW	30,60,10,0	Gravelly Sand with Silt - White (5YR 8/1), medium to coarse grained sand, well graded, dry, strong odor			10,000
			SW	0,100,0,0	Sand - White (5YR 8/1), medium to coarse grained sand, well graded, dry, no odor			
-25								0.0
-30					Soil vapor probes installed at 10 and 20 feet below ground surface			

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-74

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			CL	0,30,0,70	Sandy Clay - Brown (10YR 4/3), non-plastic, slightly moist, no odor, fine to medium grained sand, well graded			
-5								0.0
-10			CL	0,0,0,100	Clay - White (10YR 8/1), non-plastic, slightly moist, no odor			0.0
-15			SW	0,100,0,0	Sand - White (10YR 8/1, fine to medium grained, well graded, no odor			0.0
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-75

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,90,10,0	Sand with Silt - Brown (10YR 4/3), fine to medium grained, well graded, non-plastic, slightly moist, no odor			
-5			ML	0,10,90,0	Silt with Sand - Brown (10YR 4/3), non-plastic, slightly moist, slight odor, fine to medium grained			0.0
-10								20
			SM	0,70,30,0	Silty Sand - Brown (10YR 4/3), fine to medium grained, well graded, non-plastic, slightly moist, no odor			
-15								5
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-77

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SM	0,50,50,0	Sand Silt Mixture - Dark Brown (10YR 3/3), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			300
-5								
-10			SW	0,100,0,0	Sand - Dark Brown (10YR 3/3) with Oil Staining, fine to medium grained sand, well graded, non-plastic, slightly moist, slight odor			200
-15			SW	10,90,0,0	Sand with Gravel - Dark Brown (10YR 3/3), fine to medium grained sand, well graded, slightly moist, slight odor			90
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-78

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **25**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	10,80,10,0	Sand with Silt and Gravel - Dark Brown (10YR 3/3), fine to medium grained, well graded, non-plastic, slightly moist, slight odor			100
-5								0.0
-10			SW	30,70,0,0	Gravelly Sand - Dark Brown (10YR 3/3), medium to coarse grained, well graded, slightly moist, no odor			0.0
-15			SW	10,90,0,0	Sand with Gravel - Dark Brown (10YR 3/3), fine to medium grained, well graded, saturated with oil, strong odor			10,000+
-20								10,000+
-25								250
-30					Soil vapor probes installed at 15 and 20 feet below ground surface			

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: AD-2

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/31/24**	TOTAL DEPTH: **20**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SP	0,100,0,0	Sand - Light Yellowish Brown (10YR 6/4), fine grained, poorly graded, slightly moist, no odor			
-5								0.0
-10			CL	0,0,30,70	Silty Clay - Light Yellowish Brown (10YR 6/4), non-plastic, slightly moist, no odor			0.0
-15			CL	0,0,0,100	Clay - White (10YR 8/1), non-plastic, slightly moist, no odor			0.0
-20			ML	0,0,100,0	Silt - White (10YR 8/1), non-plastic, slightly moist, no odor			0.0
					Soil vapor probes installed at 10 and 20 feet			
-25								

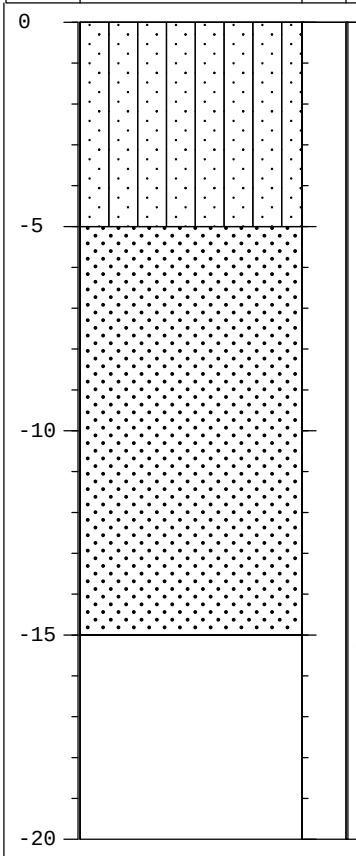
WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-FEB1

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY



Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SM	0,70,30,0	Silty Sand - Brown (10YR 4/3), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-5			SW	0,100,0,0	Sand - Yellowish Brown (10YR 5/6), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-10			SW	0,100,0,0	Sand - Yellowish Brown (10YR 5/8), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-15			CL	0,30,0,70	Sandy Clay - White (10YR 8/1), non-plastic, slightly moist, no odor, fine to medium grained sand, well graded			0.0
					Soil vapor probes installed at 10 and 15 feet below ground surface			
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-SEP1

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SM	0,70,30,0	Silty Sand - Dark Brown (10YR 3/3), fine to medium grained, well graded, non-plastic, slightly moist, no odor			0.0
-5			SW	10,90,0,0	Sand with Gravel - Light Yellowish Brown (10YR 6/4), fine to medium grained, well graded, slightly moist, no odor			0.0
-10			SC	0,70,0,30	Clayey Sand - Light Olive Brown (2.5Y 5/4), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-15					Soil vapor probe installed at 10 feet below ground surface			

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-TF3

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SM	0,70,30,0	Silty Sand - Dark Brown (10YR 3/3), fine to medium grained, well graded, non-plastic, slightly moist, no odor			0.0
-5			SW	0,100,0,0	Sand - Gray (10YR 6/1), fine to medium grained, well graded, slightly moist, no odor			0.0
-10			SW	0,100,0,0	Sand - Gray (10YR 6/1), medium to coarse grained, well graded, slightly moist, no odor			0.0
-15			CL	0,30,0,70	Sandy Clay - Light Yellowish Brown (10YR 6/4), non-plastic, slightly moist, no odor, medium to coarse grained, well graded			0.0
-20					Soil vapor probe installed at 10 feet below ground surface			

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-TF4

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SM	0,70,30,0	Silty Sand - Dark Brown (10YR 3/3), fine to medium grained, well graded, non-plastic, slightly moist, no odor			0.0
-5			SW	0,100,0,0	Sand - Gray (10YR 6/1), fine to medium grained, well graded, slightly moist, no odor			0.0
-10			SW	0,100,0,0	Sand - Gray (10YR 6/1), medium to coarse grained, well graded, slightly moist, no odor			0.0
-15			CL	0,30,0,70	Sandy Clay - Light Yellowish Brown (10YR 6/4), non-plastic, slightly moist, no odor, medium to coarse grained, well graded			0.0
-20					Soil vapor probe installed at 10 feet below ground surface			

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-TH-1

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SM	0,70,30,0	Silty Sand - Brown (10YR 4/3), fine to medium grained, well graded, slightly moist, no odor			0.0
-5			SW	0,100,0,0	Sand - Brown (10YR 4/3), fine to medium grained, well graded, slightly moist, no odor			0.0
					Soil vapor probe installed at 10 feet below ground surface			
-10								0.0
-15								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-37A

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,100,0,0	Sand - Light Yellowish Brown (10YR 6/4), fine to medium grained, well graded, slightly moist, no odor			
-5								0.0
-10			SW	0,100,0,0	Sand - Brown (10YR 4/3), fine to medium grained, well graded, slightly moist, no odor			0.0
-15			ML	0,0,70,30	Clayey Silt - Brown (10YR 4/3), non-plastic, moist, no odor			0.0
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-45

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			CL	0,10,30,60	Silty Clay with Sand - Brown (10YR 4/3) with Oil Staining, non-plastic, slightly moist, slight odor, fine to medium grained sand			20
			CL	0,10,30,60	Silty Clay with Sand - Brown (10YR 4/3), non-plastic, slightly moist, slight odor, fine to medium grained sand			
-5								0.0
-10			SW	0,100,0,0	Sand - White (10YR 8/1), fine to medium grained, well graded, no odor			0.0
-15			SM	0,70,30,0	Silty Sand - Light Olive Brown (2.5Y 5/6), fine grained sand, poorly graded, slightly moist, non-plastic, no odor			0.0
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-6 (32)

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **20**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,90,10,0	Sand with Silt (Brown 10YR 4/3), fine to medium grained, well graded, non-plastic, slightly moist, slight odor			20
-5								10
-10								2.0
-15								0.0
			CL	0,0,0,100	Clay - Brown (10YR 4/3), slightly plastic, slightly moist, no odor			
-20			SW	0,90,10,0	Sand with Silt (Brown 10YR 4/3), fine to medium grained, well graded, non-plastic, slightly moist, slight odor			0.0
					Soil vapor probes installed at 10 and 20 feet			
-25								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: CL-W-B-5

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/30/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,90,10,0	Sand with Silt - Gray (10YR 6/1), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			
-5								0.0
-10								0.0
-15			SC	0,70,0,30	Clayey Sand - White (10YR 8/1), fine to medium grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: N-W-22

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/31/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,100,0,0	Sand - Brown (10YR 4/3), fine to medium grained, well graded, slightly moist, no odor			
-5								0.0
-10			CL	0,30,0,70	Sandy Clay - Reddish Brown (5YR 4/4), non-plastic, slightly moist, fine grained sand, no odor			0.0
-15			CL	0,30,0,70	Sandy Clay - Reddish Yellow (5YR 6/8), non-plastic, slightly moist, fine grained sand, no odor			0.0
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: N-W-46

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/31/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,90,10,0	Sand with Silt - Reddish Brown (5YR 4/4), fine to coarse grained sand, well graded, non-plastic, slightly moist, no odor			
-5								0.0
-10								0.0
-15			SW	10,80,10,0	Sand with Silt and Gravel - Reddish Brown (5YR 4/4), fine to coarse grained sand, well graded, non-plastic, slightly moist, no odor			0.0
-20								

WATERSTONE ENVIRONMENTAL, INC.

Boring Log

Boring: N-W-48

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Solstra**	DRILLING CO.: **Millennium Environmental, Inc.**
LOCATION: **Orcutt Oil Fleld**	DRILLER: **Hayden M.**
JOB NO.: **23-148**	RIG TYPE: **7822 DT**
PROJECT MANAGER: **Mark Shifflett**	METHOD OF DRILLING: **Direct Push**
LOGGED BY: **T. Dagdigian**	SAMPLING METHODS: **Core**
DATES DRILLED: **1/31/24**	TOTAL DEPTH: **15**

LITHOLOGY

Depth (feet)	Graphic Log	Water	USCS	Est. Grain Size % (gravel, sand, silt, clay)	Soil Description (and other remarks)	Blows	Collected	PID ppm
0			SW	0,100,0,0	Sand - Brown (10YR 4/3), fine to medium grained, well graded, slightly moist, no odor			
-5			SM	0,70,30,0	Silty Sand - Brown (10YR 4/3), fine to medium grained, well graded, non-plastic, slightly moist, no odor			0.0
			CL	0,30,0,70	Sandy Clay - Brown (10YR 4/3), non-plastic, slightly moist, fine grained sand, no odor			
-10			CL	0,10,0,90	Clay with Sand - Brown (10YR 4/3), non-plastic, slightly moist, fine grained sand, no odor			0.0
			SW	0,100,0,0	Sand - Brown (10YR 4/3), fine to medium grained, well graded, slightly moist, no odor			
-15								0.0
-20								

Appendix F
Laboratory Reports and Chain of Custody Documents

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number:	501289
Report Level:	II
Report Date:	02/27/2024

Analytical Report *prepared for:*

Mark Shifflett
Waterstone Environmental Inc.
2936 E. Coronado St.
Anaheim, CA 92806

Location: Solstra - Solomon Hills, 23-148

Authorized for release by:



Patty Mata, Project Manager
patty.mata@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Mark Shifflett
Waterstone Environmental Inc.
2936 E. Coronado St.
Anaheim, CA 92806

Lab Job #: 501289
Location: Solstra - Solomon Hills, 23-148
Date Received: 02/01/24

Sample ID	Lab ID	Collected	Matrix
CL-W-61-5	501289-001	01/30/24 08:30	Soil
CL-W-61-10	501289-002	01/30/24 08:35	Soil
CL-W-61-15	501289-003	01/30/24 08:40	Soil
CL-W-63-10	501289-004	01/30/24 09:50	Soil
CL-W-63-20	501289-005	01/30/24 09:55	Soil
CL-W-63-25	501289-006	01/30/24 10:00	Soil
CL-W-78-10	501289-007	01/30/24 10:30	Soil
CL-W-78-20	501289-008	01/30/24 10:35	Soil
CL-W-78-25	501289-009	01/30/24 10:40	Soil
CL-W-78-30	501289-010	01/30/24 10:50	Soil
CL-W-6(32)-5	501289-011	01/30/24 11:20	Soil
CL-W-6(32)-10	501289-012	01/30/24 11:25	Soil
CL-W-6(32)-20	501289-013	01/30/24 11:30	Soil
CL-W-37A-5	501289-014	01/30/24 12:00	Soil
CL-W-37A-10	501289-015	01/30/24 12:05	Soil
CL-W-37A-15	501289-016	01/30/24 12:20	Soil
CL-T-1-1	501289-017	01/30/24 12:50	Soil
CL-T-1-2	501289-018	01/30/24 12:55	Soil
CL-T-1-5	501289-019	01/30/24 13:00	Soil
CL-SEP1-2	501289-020	01/30/24 13:20	Soil
CL-SEP1-5	501289-021	01/30/24 13:25	Soil
CL-SEP1-10	501289-022	01/30/24 13:30	Soil
CL-TR1-2	501289-023	01/30/24 13:45	Soil
CL-TR1-5	501289-024	01/30/24 13:50	Soil
CL-W-75-5	501289-025	01/30/24 14:08	Soil
CL-W-75-10	501289-026	01/30/24 14:12	Soil

ENTHALPY ANALYTICAL

Sample Summary

Mark Shifflett
Waterstone Environmental Inc.
2936 E. Coronado St.
Anaheim, CA 92806

Lab Job #: 501289
Location: Solstra - Solomon Hills, 23-148
Date Received: 02/01/24

Sample ID	Lab ID	Collected	Matrix
CL-W-75-15	501289-027	01/30/24 14:15	Soil
CL-W-45-5	501289-028	01/30/24 14:50	Soil
CL-W-45-10	501289-029	01/30/24 14:55	Soil
CL-W-45-15	501289-030	01/30/24 15:00	Soil
CL-W-74-5	501289-031	01/30/24 15:20	Soil
CL-W-74-10	501289-032	01/30/24 15:25	Soil
CL-W-74-15	501289-033	01/30/24 15:30	Soil
CL-W-77-5	501289-034	01/30/24 15:50	Soil
CL-W-77-10	501289-035	01/30/24 15:55	Soil
CL-W-77-15	501289-036	01/30/24 16:00	Soil
N-W-48-5	501289-037	01/31/24 07:00	Soil
N-W-48-10	501289-038	01/31/24 07:05	Soil
N-W-48-15	501289-039	01/31/24 07:10	Soil
N-W-46-5	501289-040	01/31/24 07:30	Soil
N-W-46-10	501289-041	01/31/24 07:35	Soil
N-W-46-15	501289-042	01/31/24 07:40	Soil
CL-W-B-5-5	501289-043	01/31/24 08:15	Soil
CL-W-B-5-10	501289-044	01/31/24 08:20	Soil
CL-W-B-5-15	501289-045	01/31/24 08:25	Soil
CL-TF3-2	501289-046	01/31/24 08:55	Soil
CL-TF3-5	501289-047	01/31/24 09:00	Soil
CL-TF3-10	501289-048	01/31/24 09:05	Soil
CL-TF3-15	501289-049	01/31/24 09:10	Soil
CL-TF4-2	501289-050	01/31/24 09:20	Soil
CL-TF4-5	501289-051	01/31/24 09:25	Soil
CL-TF4-10	501289-052	01/31/24 09:30	Soil

ENTHALPY ANALYTICAL

Sample Summary

Mark Shifflett
Waterstone Environmental Inc.
2936 E. Coronado St.
Anaheim, CA 92806

Lab Job #: 501289
Location: Solstra - Solomon Hills, 23-148
Date Received: 02/01/24

Sample ID	Lab ID	Collected	Matrix
CL-TF4-15	501289-053	01/31/24 09:40	Soil
CL-FEB1-2	501289-054	01/31/24 09:45	Soil
CL-FEB1-5	501289-055	01/31/24 09:50	Soil
CL-FEB1-10	501289-056	01/31/24 09:55	Soil
CL-FEB1-15	501289-057	01/31/24 10:00	Soil
CL-TH1-2	501289-058	01/31/24 10:30	Soil
CL-TH1-5	501289-059	01/31/24 10:40	Soil
CL-TH1-10	501289-060	01/31/24 10:45	Soil
CL-W-6-5	501289-061	01/31/24 10:45	Soil
CL-W-6-10	501289-062	01/31/24 10:55	Soil
CL-W-6-15	501289-063	01/31/24 11:00	Soil
CL-W-60-5	501289-064	01/31/24 11:30	Soil
CL-W-60-10	501289-065	01/31/24 11:35	Soil
CL-W-60-15	501289-066	01/31/24 11:40	Soil
AD-2-5	501289-067	01/31/24 12:10	Soil
AD-2-10	501289-068	01/31/24 12:12	Soil
AD-2-15	501289-069	01/31/24 12:14	Soil
AD-2-20	501289-070	01/31/24 12:20	Soil
N-W-22-5	501289-071	01/31/24 12:55	Soil
N-W-22-10	501289-072	01/31/24 13:00	Soil
N-W-22-15	501289-073	01/31/24 13:05	Soil

ENTHALPY ANALYTICAL

Case Narrative

Waterstone Environmental Inc. 2936 E. Coronado St. Anaheim, CA 92806 Mark Shifflett	Lab Job Number:	501289
	Location:	Solstra - Solomon Hills, 23-148
	Date Received:	02/01/24

- This data package contains sample and QC results for sixty eight soil samples, requested for the above referenced project on 02/01/24. The samples were received cold and intact.
- Revised report on 2/27/24 to include Cadmium re-analysis result and additional STLC and TCLP test results for sample CL-W-74-10 as requested.

TPH-Extractables by GC (EPA 8015M):

- High surrogate recovery was observed for n-triacontane in CL-W-61-15 (lab # 501289-003); no target analytes were detected in the sample.
- Many samples were diluted due to the dark color of the sample extracts. Extract color and/or viscosity are used as indicators of possible matrix interference. Elevated reporting limits were due to the necessary dilutions.
- No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

- Response exceeding the instrument's linear range was observed for acetone in CL-W-74-10 (lab # 501289-032); affected data was qualified with "E". The sample was also analyzed with methanol extract dilution but the result was ND with elevated reporting limit. The original undiluted analysis result was reported with estimated value "E" flag.
- No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

- A number of samples were diluted due to the dark and viscous nature of the sample extracts. Extract color and/or viscosity are used as indicators of possible matrix interference. Elevated reporting limits were due to the necessary dilutions.
- No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7471A) Soil:

- Low recoveries were observed for antimony in the MS/MSD of N-W-46-10 (lab # 501289-041); the LCS was within limits, and the associated RPD was within limits.
- Low recoveries were observed for antimony in the MS/MSD for batch 332966; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.
- No other analytical problems were encountered.

Metals (EPA 6020) TCLP Leachate:

No analytical problems were encountered.

Metals (EPA 6020) WET Leachate:

No analytical problems were encountered.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 501289

Page: 1 of 8

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: 6.2 2.1 (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Environmental	Name:	Solstra - Solomun Hills
Report To:	Mark Shifflett	Number:	23-148
Email:	mshifflett@waterstone-env.com	P.O. #:	
Address:	2936 E Coronado St	Address:	1555 Orcutt Hill Rd, Santa Maria
	Anaheim CA 92806		
Phone:	714 414 1122	Global ID:	
Fax:		Sampled By:	Travis Dagdigian

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH CCID (8015B)	VOCs 8260B	SVOCs 8270C	Title 22 Metals (6010B/7471A)	PCBs 8082	Test Instructions / Comments
1	CL-W-61-5	1/30/24	830	S	Sleeve + VOA	5035	X	X				
2	CL-W-61-10		835	S			X	X				
3	CL-W-61-15		840	S			X	X				
4	CL-W-63-10		950	S			X	X				
5	CL-W-63-20		955	S			X	X				
6	CL-W-63-25		10:00	S			X	X				
7	CL-W-78-10		1030	S			X	X				
8	CL-W-78-20		1035	S			X	X				
9	CL-W-78-25		1040	S			X	X				
10	CL-W-78-30		1050	S			X	X				

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Travis Dagdigian	Waterstone	2/1/24 / 13:15
[1] Received By:				2/1/24 1215
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 501289

Page: 2 of 8

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

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Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Environmental	Name:	Solstra - Solomun Hills
Report To:	Mark Shifflett	Number:	23-148
Email:	mshifflett@waterstone-env.com	P.O. #:	
Address:	2936 E Coronado St	Address:	1555 Orcutt Hill Rd, Santa Maria
	Anaheim CA 92806		
Phone:	714 414 1122	Global ID:	
Fax:		Sampled By:	Travis Dagdigian

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH CCID (8015B)	VOCs 8260B	SVOCs 8270C	Title 22 Metals (6010B/7471A)	PCBs 8082	8270					Test Instructions / Comments
1	CL-W-6(32)-5	1/30/24	1120	S	Sleeve	-	X										
2	CL-W-6(32)-10		1125		Sleeve + VOA	5035	X	X									
3	CL-W-6(32)-20		1130		Sleeve + VOA	5035	X	X									
4	CL-W-37A-5		1200		Sleeve	-	X										
5	CL-W-37A-10		1205		Sleeve + VOA	5035	X	X									
6	CL-W-37A-15		1220		Sleeve + VOA	5035	X	X									
7	CL-T-1-1		1250		Sleeve	-			X		X						
8	CL-T-1-2		1255		Sleeve	-			X		X						
9	CL-T-1-5		1300		Sleeve	-						X					
10	CL-SEP1-2		1320		Sleeve	-	X										

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Travis Dagdigian	Waterstone	2/1/24 ! 13:15
[1] Received By:				
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 501289

Page: 3 of 8

Turn Around Time (rush by advanced notice only)

Standard:	✓	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

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Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Environmental	Name:	Solstra - Solomun Hills
Report To:	Mark Shifflett	Number:	23-148
Email:	mshifflett@waterstone-env.com	P.O. #:	
Address:	2936 E Coronado St	Address:	1555 Orcutt Hill Rd, Santa Maria
	Anaheim CA 92806		
Phone:	714 414 1122	Global ID:	
Fax:		Sampled By:	Travis Dagdigian

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH CCID (8015B)	VOCs 8260B	SVOCs 8270C	Title 22 Metals (6010B/7471A)	PCBs 8082	Test Instructions / Comments
1	CL-SEP1-5	1/30/24	1325	S	Sleeve + VOA	5035	X	X				
2	CL-SEP1-10	↓	1330	↓	Sleeve	—	X					
3	CL-TR1-2		1345		Sleeve	—	X					
4	CL-TR1-5		1350		Sleeve + VOA	5035	X	X				
5	CL-W-75-5		1408		sleeve	—	X					
6	CL-W-75-10		1412		sleeve + VOA	5035	X	X				
7	CL-W-75-15	↓	1415	↓	Sleeve	—	X					
8												
9												
10												

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Travis Dagdigian	Waterstone	2/1/24 1:15
[1] Received By:				2/1/24 17:17
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

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Chain of Custody Record

Lab No: 501289

Page: 4 of 8

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid
W = Water DW = Drinking Wate SD = Sediment
PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:
1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3
4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Environmental	Name:	Solstra - Solomun Hills
Report To:	Mark Shifflett	Number:	23-148
Email:	mshifflett@waterstone-env.com	P.O. #:	
Address:	2936 E Coronado St	Address:	1555 Orcutt Hill Rd, Santa Maria
	Anaheim CA 92806		
Phone:	714 414 1122	Global ID:	T1D
Fax:		Sampled By:	Travis Dagdigian

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH CCID (8015B)	VOCs 8260B	SVOCs 8270C	Title 22 Metals (6010B/7471A)	PCBs 8082	Test Instructions / Comments
1	CL-W-45-5	1/30/24	1450	S	Sleeve	—	X					
2	CL-W-45-10	1/30/24	1455	S	Sleeve+VOA	5035	X	X				
3	CL-W-45-15	"	1500	S	Sleeve	—	X					
4	CL-W-74-5	"	1520	S	Sleeve	—	X					
5	CL-W-74-10	"	1525	S	Sleeve+VOA	5035	X	X				
6	CL-W-74-15	"	1530	S	Sleeve	—	X					
7	CL-W-77-5	"	1550	S	Sleeve	—	X					
8	CL-W-77-10	"	1555	S	Sleeve+VOA	5035	X	X				
9	CL-W-77-15	"	1600	S	Sleeve+VOA	5035	X	X				
10												

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Travis Dagdigian	Waterstone	2/1/24 / 13:15
1 Received By:				2/1/24 1318
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

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Chain of Custody Record

Lab No: T10.5 501289

Page: 1 of 8

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

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Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Environmental	Name:	Solstra - Solomun Hills
Report To:	Mark Shifflett	Number:	23-148
Email:	mshifflett@waterstone-env.com	P.O. #:	
Address:	2936 E Coronado St	Address:	1555 Orcutt Hill Rd, Santa Maria
	Anaheim CA 92806		
Phone:	714 414 1122	Global ID:	
Fax:		Sampled By:	Travis Dagdigian

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH CCID (8015B)	VOCs 8260B	SVOCs 8270C	Title 22 Metals (6010B/7471A)	PCBs 8082	Test Instructions / Comments
1	N-W-48-5	1/31/24	700	S	Sleeve	-	X					
2	N-W-48-10		705	S	Sleeve + vial	5035	X	X				
3	N-W-48-15		710	S	Sleeve	-	X					
4	N-W-46-5		730	S	Sleeve	-	X					
5	N-W-46-10		735	S	Sleeve + vial	5035	X	X				
6	N-W-46-15		740	S	Sleeve	-	X					
7	CL-W-B-5-5		815	S	Sleeve	-	X					
8	CL-W-B-5-10		820	S	Sleeve + vial	5035	X	X				
9	CL-W-B-5-15		825	S	Sleeve	-	X					
10												

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Travis Dagdigian	Waterstone	2/1/24 / 13:15
1 Received By:				
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

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Chain of Custody Record

Lab No: T.D. 6 501269

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

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Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Environmental	Name:	Solstra - Solomun Hills
Report To:	Mark Shifflett	Number:	23-148
Email:	mshifflett@waterstone-env.com	P.O. #:	
Address:	2936 E Coronado St	Address:	1555 Orcutt Hill Rd, Santa Maria
	Anaheim CA 92806		
Phone:	714 414 1122	Global ID:	
Fax:		Sampled By:	Travis Dagdigian

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH CCID (8015B)	VOCs 8260B	SVOCs 8270C	Title 22 Metals (6010B/7471A)	PCBs 8082	Test Instructions / Comments
1	CL-TF3-2	1/31/24	855	S	Sleeve	-	X					
2	CL-TF3-5		900		Sleeve VOA	5035	X	X				
3	CL-TF3-10		905		Sleeve VOA	5035	X	X				
4	CL-TF3-15		910		Sleeve	-	X					
5	CL-TF4-2		920		Sleeve	-	X					
6	CL-TF4-5		925		Sleeve VOA	5035	X	X				
7	CL-TF4-10		930		Sleeve VOA	5035	X	X				
8	CL-TF4-15	↓	940	↓	Sleeve	-	X					
9												
10												

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Travis Dagdigian	Waterstone	2/1/24 / 13:15
[1] Received By:				
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 501289

Page: TAT 8 of 8

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

3

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Env Inc	Quote #:	
Report To:	Mark Shifflett	Proj. Name:	Solstream Solomon Hills
Email:	mshifflett@waterstone-env.com	Proj. #:	
Address:	2936 E. Coronado St	P.O. #:	23-148
	Anaheim CA 92806	Address:	1555 Orchard Hill Rd
Phone:	714 414 1172	Global ID:	
Fax:		Sampled By:	Travis Daydigian

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH ccfd (8015B)	VOC 8260B	SVOC 8270C	THLL 22 metals 6010B/7471A	PCB 8082	HOLD
1	CL-FEB1-2	1/31/24	945	S	Sleeve	-	X					
2	CL-FEB1-5		950		Sleeve+VOA	5035	X	X				
3	CL-FEB1-10		955		Sleeve	-						X
4	CL-FEB1-15		1000		Sleeve+VOA	5035	X	X				
5	CL-TH1-2		1030		Sleeve		X					
6	CL-TH1-5		1040		Sleeve+VOA	5035	X	X				
7	CL-TH-10		1045		Sleeve		X					
8	CL-W-6-5		~~1045~~ 1050		Sleeve	-	X					
9	CL-W-6-10		~~1055~~ 1055		Sleeve+VOA	5035	X	X				
10	CL-W-6-15		~~1100~~ 1100		Sleeve	-	X					

Test Instructions / Comments

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Travis Daydigian	Waterstone	2/1/24 / 13:15
1 Received By:				2/1/24 1315
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 501289

Page: 8 of 8

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Waterstone Env Inc	Quote #:	
Report To:	Mark Shifflett	Proj. Name:	Solstra - Solomon 11/18
Email:	mshifflett@waterstone-inc.com	Proj. #:	23-148
Address:	2036 E. Cerrado St	P.O. #:	8
	Anaheim CA 92806	Address:	1555 Orcutt Hill Rd
Phone:	714 414 1122	Global ID:	
Fax:		Sampled By:	Travis Dogdigm

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH CCD (8015B)	VOC 8260B				Helio					Test Instructions / Comments
1	CL-W-60-5	1130	1/31/24	S	Sleeve		X										
2	CL-W-60-10	1135			Sleeve+VOA	5035	X	X									
3	CL-W-60-15	1140			Sleeve		X										
4	AD-2-5	1210			Sleeve	—						X					
5	AD-2-10	1212			Sleeve	—						X					
6	AD-2-15	1214			Sleeve	—						X					
7	AD-2-20	1220			Sleeve	—						X					
8	N-W-22-5	1255			Sleeve	—	X										
9	N-W-22-10	1300			Sleeve+VOA	5035	X	X									
10	N-W-22-15	1305			Sleeve	—	X										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Travis Dogdigm	Waterstone	2/1/24 / 13:15
1 Received By:			CH	2/1/24 1315
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Waterstone Project: Solstice

Date Received: 2/1/24 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 6.2 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 2/1/24

[External] - RE: Solstra - Solomun Hills, 23-148 - Enthalpy Data (501289)

Mark Shifflett <mshifflett@waterstone-env.com>

Fri 2/9/2024 4:36 PM

To:Patty Mata <patty.mata@enthalpy.com>
Cc:Travis Dagdigian <tdagdigian@waterstone-env.com>

You don't often get email from mshifflett@waterstone-env.com. Learn why this is important

Patty,

Can you please run add-on analyses for both:

- SVOCs 8270C, and
- Title 22 Metals 6010B/7471A

on the 24 samples listed below - standard TAT.
Note: Hold time for SVOCs on samples is up on 2/13 and 2/14.

CL-FEB1-2	501289-054
CL-SEP1-2	501289-020
CL-TF3-2	501289-046
CL-TF4-2	501289-050
CL-TH1-2	501289-058
CL-TH1-10	501289-060
CL-TR1-2	501289-023
CL-37A-10	501289-015
CL-W-45-5	501289-028
CL-W-6(32)-20	501289-013
CL-W-6-10	501289-062
CL-W-60-10	501289-065
CL-W-61-5	501289-001
CL-W-63-20	501289-005
CL-W-74-5	501289-031
CL-W-74-10	501289-032
CL-W-75-10	501289-026
CL-W-77-10	501289-035
CL-W-78-20	501289-008
CL-W-B-5-10	501289-044
N-W-22-10	501289-072
N-W-48-10	501289-038
N-W-46-10	501289-041
AD-2-5	501289-067

Also can you please revised the report and change the project name to Solomon Hills?

Thanks, Mark

From: Patty Mata <patty.mata@enthalpy.com>
Sent: Friday, February 9, 2024 3:36 PM
To: Mark Shifflett <mshifflett@waterstone-env.com>
Subject: Solstra - Solomun Hills, 23-148 - Enthalpy Data (501289)

Hi Mark,

[External] - RE: Solstra - Solomon Hills, 23-148, revised with additional results - Enthalpy Data (501289)

Mark Shifflett <mshifflett@waterstone-env.com>

Wed 2/21/2024 8:41 AM

To:Patty Mata <patty.mata@enthalpy.com>

You don't often get email from mshifflett@waterstone-env.com. Learn why this is important

Thanks Patty,

Please run STLC WET and TCLP by **6020** on sample -32 (CL-W-74-10), standard TAT.

Also, can you also please re-run the sample for total cadmium using **Method 6020** to confirm?

Regards, Mark

From: Patty Mata <patty.mata@enthalpy.com>
Sent: Tuesday, February 20, 2024 10:34 AM
To: Mark Shifflett <mshifflett@waterstone-env.com>
Subject: Solstra - Solomon Hills, 23-148, revised with additional results - Enthalpy Data (501289)

Hi Mark,

Revised report on 2/20/24 to include additional metals and SVOC test results as requested.

Lab number -032 had Cadmium over 10 x STLC limit and over 20 x TCLP limit so let me know if you need STLC or TCLP test done.

Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in the EDD.

Please find attached the following files:
• PDF Deliverable
• Standard Pivot Table EDD (501289.xls)

Email was also sent to: tdagdigian@waterstone-env.com

With Regards,

Patty Mata
Project Manager

931 W. Barkley Ave., Orange, CA 92868
O: 714.771.6900
D: 714.771.9930
Patty.mata@enthalpy.com

To help protect the air we breathe, the water we drink, and the soil that feeds us.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Mark Shifflett
Waterstone Environmental Inc.
2936 E. Coronado St.
Anaheim, CA 92806

Lab Job #: 501289
Location: Solstra - Solomon Hills, 23-148
Date Received: 02/01/24

Sample ID: CL-W-61-5 **Lab ID: 501289-001** **Collected: 01/30/24 08:30**
Matrix: Soil

501289-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Arsenic	ND		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Barium	**38**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Chromium	**6.3**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Cobalt	**1.6**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Copper	**3.7**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Lead	**2.8**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Molybdenum	**1.1**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Nickel	**4.9**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Vanadium	**7.9**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Zinc	**11**		mg/Kg	4.9	0.98	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/07/24	SME
DRO C10-C28	**19**		mg/Kg	10	1	332139	02/03/24	02/07/24	SME
ORO C28-C44	**30**		mg/Kg	20	1	332139	02/03/24	02/07/24	SME
Surrogates				**Limits**					
n-Triacontane	107%		%REC	70-130	1	332139	02/03/24	02/07/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	77	0.77	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	77	0.77	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2-Dibromoethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	7.7	0.77	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Hexachlorobutadiene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	3.9	0.77	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	96%		%REC	70-145	0.77	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	122%		%REC	70-145	0.77	332183	02/05/24	02/05/24	YAH
Toluene-d8	103%		%REC	70-145	0.77	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	101%		%REC	70-145	0.77	332183	02/05/24	02/05/24	YAH
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	**670**		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	97%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	99%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	80%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	93%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	103%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	104%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-61-10	Lab ID: 501289-002	Collected: 01/30/24 08:35
	Matrix: Soil	

501289-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/07/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/07/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332139	02/03/24	02/07/24	SME
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	0.99	332139	02/03/24	02/07/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	69	0.69	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	69	0.69	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	6.9	0.69	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	3.5	0.69	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	99%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	114%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH
Toluene-d8	102%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	102%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-61-15	Lab ID: 501289-003	Collected: 01/30/24 08:40
	Matrix: Soil	

501289-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	214%	*	%REC	70-130	0.99	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	69	0.69	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	69	0.69	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	6.9	0.69	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	3.4	0.69	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	98%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	119%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH
Toluene-d8	100%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	103%		%REC	70-145	0.69	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-63-10	Lab ID: 501289-004	Collected: 01/30/24 09:50
	Matrix: Soil	

501289-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	112%		%REC	70-130	1	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	90	0.9	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	90	0.9	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	9.0	0.9	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	4.5	0.9	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	97%		%REC	70-145	0.9	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	110%		%REC	70-145	0.9	332183	02/05/24	02/05/24	YAH
Toluene-d8	102%		%REC	70-145	0.9	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	103%		%REC	70-145	0.9	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-63-20	Lab ID: 501289-005	Collected: 01/30/24 09:55
	Matrix: Soil	

501289-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Arsenic	ND		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Barium	**14**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Chromium	**22**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Cobalt	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Copper	**1.8**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Lead	**4.2**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Molybdenum	**1.2**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Nickel	**4.1**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Vanadium	**8.6**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Zinc	**15**		mg/Kg	4.9	0.98	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	**320**		mg/Kg	50	5	332139	02/03/24	02/08/24	SME
DRO C10-C28	**3,800**		mg/Kg	50	5	332139	02/03/24	02/08/24	SME
ORO C28-C44	**1,500**		mg/Kg	99	5	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	126%		%REC	70-130	5	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	89	0.89	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	89	0.89	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2-Dibromoethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	8.9	0.89	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	4.5	0.89	332183	02/05/24	02/05/24	YAH

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	98%		%REC	70-145	0.89	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	119%		%REC	70-145	0.89	332183	02/05/24	02/05/24	YAH
Toluene-d8	102%		%REC	70-145	0.89	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	99%		%REC	70-145	0.89	332183	02/05/24	02/05/24	YAH
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	**17,000**		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Phenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	20,000	50	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol		DO	%REC	29-120	50	332802	02/13/24	02/14/24	TJW
Phenol-d6		DO	%REC	30-120	50	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol		DO	%REC	32-120	50	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5		DO	%REC	33-120	50	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl		DO	%REC	39-120	50	332802	02/13/24	02/14/24	TJW
Terphenyl-d14		DO	%REC	44-125	50	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-63-25	Lab ID: 501289-006	Collected: 01/30/24 10:00
	Matrix: Soil	

501289-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	**24**		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	114%		%REC	70-130	1	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	130	1.3	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	130	1.3	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	13	1.3	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	6.3	1.3	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	100%		%REC	70-145	1.3	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	113%		%REC	70-145	1.3	332183	02/05/24	02/05/24	YAH
Toluene-d8	101%		%REC	70-145	1.3	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	102%		%REC	70-145	1.3	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-78-10	Lab ID: 501289-007	Collected: 01/30/24 10:30
	Matrix: Soil	

501289-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	109%		%REC	70-130	0.99	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	100	1	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	100	1	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	10	1	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	5.1	1	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	95%		%REC	70-145	1	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	120%		%REC	70-145	1	332183	02/05/24	02/05/24	YAH
Toluene-d8	104%		%REC	70-145	1	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	111%		%REC	70-145	1	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-78-20	Lab ID: 501289-008	Collected: 01/30/24 10:35
	Matrix: Soil	

501289-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.97	332966	02/13/24	02/14/24	SBW
Arsenic	ND		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Barium	**21**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Chromium	**6.0**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Cobalt	**0.88**		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Copper	**1.8**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Lead	**1.6**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Molybdenum	ND		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Nickel	**4.7**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.97	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.97	332966	02/13/24	02/14/24	SBW
Vanadium	**11**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Zinc	**5.2**		mg/Kg	4.9	0.97	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	333230	02/16/24	02/16/24	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	**1,600**		mg/Kg	100	10	332139	02/03/24	02/08/24	SME
DRO C10-C28	**7,200**		mg/Kg	100	10	332139	02/03/24	02/08/24	SME
ORO C28-C44	**2,800**		mg/Kg	200	10	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	111%		%REC	70-130	10	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
cis-1,4-Dichloro-2-butene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Freon 12	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Chloromethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Vinyl Chloride	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Bromomethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Chloroethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Trichlorofluoromethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Acetone	ND		ug/Kg	4,600	46	332183	02/05/24	02/05/24	LYZ
Freon 113	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,1-Dichloroethene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Methylene Chloride	ND		ug/Kg	370	46	332183	02/05/24	02/05/24	LYZ
MTBE	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
trans-1,2-Dichloroethene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,1-Dichloroethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
2-Butanone	ND		ug/Kg	4,600	46	332183	02/05/24	02/05/24	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
2,2-Dichloropropane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Chloroform	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Bromochloromethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,1,1-Trichloroethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,1-Dichloropropene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Carbon Tetrachloride	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2-Dichloroethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Benzene	**730**		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Trichloroethene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2-Dichloropropane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Bromodichloromethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Dibromomethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
4-Methyl-2-Pentanone	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
cis-1,3-Dichloropropene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Toluene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
trans-1,3-Dichloropropene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,1,2-Trichloroethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,3-Dichloropropane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Tetrachloroethene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Dibromochloromethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2-Dibromoethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Chlorobenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Ethylbenzene	**13,000**		ug/Kg	920	180	332291	02/06/24	02/06/24	LYZ
m,p-Xylenes	ND		ug/Kg	460	46	332183	02/05/24	02/05/24	LYZ
o-Xylene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Styrene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Bromoform	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Isopropylbenzene	**9,400**		ug/Kg	920	180	332291	02/06/24	02/06/24	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2,3-Trichloropropane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Propylbenzene	**9,100**		ug/Kg	920	180	332291	02/06/24	02/06/24	LYZ
Bromobenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,3,5-Trimethylbenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
2-Chlorotoluene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
4-Chlorotoluene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
tert-Butylbenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2,4-Trimethylbenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
sec-Butylbenzene	**7,200**		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
para-Isopropyl Toluene	**1,200**		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,3-Dichlorobenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,4-Dichlorobenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
n-Butylbenzene	**1,800**		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2-Dichlorobenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
1,2,4-Trichlorobenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Hexachlorobutadiene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Naphthalene	**12,000**		ug/Kg	920	180	332291	02/06/24	02/06/24	LYZ
1,2,3-Trichlorobenzene	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ
Xylene (total)	ND		ug/Kg	230	46	332183	02/05/24	02/05/24	LYZ

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	91%		%REC	70-145	46	332183	02/05/24	02/05/24	LYZ
Dibromofluoromethane	100%		%REC	70-145	180	332291	02/06/24	02/06/24	LYZ
1,2-Dichloroethane-d4	100%		%REC	70-145	46	332183	02/05/24	02/05/24	LYZ
1,2-Dichloroethane-d4	87%		%REC	70-145	180	332291	02/06/24	02/06/24	LYZ
Toluene-d8	121%		%REC	70-145	46	332183	02/05/24	02/05/24	LYZ
Toluene-d8	103%		%REC	70-145	180	332291	02/06/24	02/06/24	LYZ
Bromofluorobenzene	92%		%REC	70-145	46	332183	02/05/24	02/05/24	LYZ
Bromofluorobenzene	110%		%REC	70-145	180	332291	02/06/24	02/06/24	LYZ
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Phenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	20,000	50	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	**15,000**		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibenzofuran	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	12,000	50	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol		DO	%REC	29-120	50	332802	02/13/24	02/14/24	TJW
Phenol-d6		DO	%REC	30-120	50	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol		DO	%REC	32-120	50	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5		DO	%REC	33-120	50	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl		DO	%REC	39-120	50	332802	02/13/24	02/14/24	TJW
Terphenyl-d14		DO	%REC	44-125	50	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-78-25	Lab ID: 501289-009	Collected: 01/30/24 10:40
	Matrix: Soil	

501289-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	108%		%REC	70-130	1	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	78	0.78	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	78	0.78	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	7.8	0.78	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	3.9	0.78	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	95%		%REC	70-145	0.78	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	116%		%REC	70-145	0.78	332183	02/05/24	02/05/24	YAH
Toluene-d8	103%		%REC	70-145	0.78	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	100%		%REC	70-145	0.78	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-78-30	Lab ID: 501289-010	Collected: 01/30/24 10:50
	Matrix: Soil	

501289-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	110%		%REC	70-130	0.99	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	75	0.75	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	75	0.75	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	7.5	0.75	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	3.8	0.75	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	96%		%REC	70-145	0.75	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	111%		%REC	70-145	0.75	332183	02/05/24	02/05/24	YAH
Toluene-d8	103%		%REC	70-145	0.75	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	103%		%REC	70-145	0.75	332183	02/05/24	02/05/24	YAH

Sample ID: CL-W-6(32)-5 **Lab ID: 501289-011** **Collected: 01/30/24 11:20**
Matrix: Soil

501289-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	103%		%REC	70-130	0.99	332139	02/03/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-6(32)-10	Lab ID: 501289-012	Collected: 01/30/24 11:25
	Matrix: Soil	

501289-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/07/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/07/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332139	02/03/24	02/07/24	SME
Surrogates				**Limits**					
n-Triacontane	112%		%REC	70-130	0.99	332139	02/03/24	02/07/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	82	0.82	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	82	0.82	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	8.2	0.82	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	4.1	0.82	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	95%		%REC	70-145	0.82	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	114%		%REC	70-145	0.82	332183	02/05/24	02/05/24	YAH
Toluene-d8	104%		%REC	70-145	0.82	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	103%		%REC	70-145	0.82	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-6(32)-20	Lab ID: 501289-013	Collected: 01/30/24 11:30
	Matrix: Soil	

501289-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Arsenic	**1.0**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Barium	**43**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Cadmium	**2.2**		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Chromium	**10**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Cobalt	**6.2**		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Copper	**3.3**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Lead	**3.9**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Molybdenum	**1.6**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Nickel	**12**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Vanadium	**15**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Zinc	**13**		mg/Kg	4.8	0.95	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
DRO C10-C28	**18**		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
ORO C28-C44	**26**		mg/Kg	20	0.99	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	107%		%REC	70-130	0.99	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	93	0.93	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	93	0.93	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2-Dibromoethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	9.3	0.93	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	4.7	0.93	332183	02/05/24	02/05/24	YAH

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	97%		%REC	70-145	0.93	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	112%		%REC	70-145	0.93	332183	02/05/24	02/05/24	YAH
Toluene-d8	102%		%REC	70-145	0.93	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	102%		%REC	70-145	0.93	332183	02/05/24	02/05/24	YAH
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	**1,600**		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	98%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	91%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	73%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	90%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	95%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	87%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Sample ID: CL-W-37A-5 **Lab ID: 501289-014** **Collected: 01/30/24 12:00**
Matrix: Soil

501289-014 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	1	332139	02/03/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-37A-10	Lab ID: 501289-015	Collected: 01/30/24 12:05
	Matrix: Soil	

501289-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Arsenic	ND		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Barium	**18**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Chromium	**5.1**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Cobalt	**1.3**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Copper	**1.4**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Lead	**1.7**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Molybdenum	**1.2**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Nickel	**2.4**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Vanadium	**8.0**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Zinc	ND		mg/Kg	4.9	0.98	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	112%		%REC	70-130	1	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	84	0.84	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	84	0.84	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2-Dibromoethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	8.4	0.84	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	4.2	0.84	332183	02/05/24	02/05/24	YAH

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	97%		%REC	70-145	0.84	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	119%		%REC	70-145	0.84	332183	02/05/24	02/05/24	YAH
Toluene-d8	101%		%REC	70-145	0.84	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	104%		%REC	70-145	0.84	332183	02/05/24	02/05/24	YAH
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Phenol	**700**		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	0.99	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	94%		%REC	29-120	0.99	332802	02/13/24	02/14/24	TJW
Phenol-d6	89%		%REC	30-120	0.99	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	75%		%REC	32-120	0.99	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	92%		%REC	33-120	0.99	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	90%		%REC	39-120	0.99	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	92%		%REC	44-125	0.99	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-37A-15	Lab ID: 501289-016	Collected: 01/30/24 12:20
	Matrix: Soil	

501289-016 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	1	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	76	0.76	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	76	0.76	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-016 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	7.6	0.76	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	3.8	0.76	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	98%		%REC	70-145	0.76	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	121%		%REC	70-145	0.76	332183	02/05/24	02/05/24	YAH
Toluene-d8	101%		%REC	70-145	0.76	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	101%		%REC	70-145	0.76	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-T-1-1	Lab ID: 501289-017	Collected: 01/30/24 12:50
	Matrix: Soil	

501289-017 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1221	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1232	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1242	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1248	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1254	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1260	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1262	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Aroclor-1268	ND		ug/Kg	50	0.99	332511	02/08/24	02/08/24	MES
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	45%		%REC	19-121	0.99	332511	02/08/24	02/08/24	MES
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
1-Methylnaphthalene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Pyridine	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Phenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Aniline	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
2-Chlorophenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Benzyl alcohol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2-Methylphenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
3-,4-Methylphenol	ND		ug/Kg	4,000	10	332122	02/03/24	02/05/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Hexachloroethane	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Nitrobenzene	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
Isophorone	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2-Nitrophenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Benzoic acid	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Naphthalene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
4-Chloroaniline	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Hexachlorobutadiene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2-Methylnaphthalene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-017 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2,4,5-Trichlorophenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2-Chloronaphthalene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2-Nitroaniline	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Dimethylphthalate	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Acenaphthylene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
3-Nitroaniline	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Acenaphthene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
4-Nitrophenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Dibenzofuran	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Diethylphthalate	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Fluorene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
4-Nitroaniline	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Hexachlorobenzene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Pentachlorophenol	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
Phenanthrene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Anthracene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Di-n-butylphthalate	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Fluoranthene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Benzidine	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
Pyrene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Butylbenzylphthalate	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	12,000	10	332122	02/03/24	02/05/24	TJW
Benzo(a)anthracene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Chrysene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Di-n-octylphthalate	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Benzo(a)pyrene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	2,500	10	332122	02/03/24	02/05/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	89%		%REC	29-120	10	332122	02/03/24	02/05/24	TJW
Phenol-d6	91%		%REC	30-120	10	332122	02/03/24	02/05/24	TJW
2,4,6-Tribromophenol	66%		%REC	32-120	10	332122	02/03/24	02/05/24	TJW
Nitrobenzene-d5	97%		%REC	33-120	10	332122	02/03/24	02/05/24	TJW
2-Fluorobiphenyl	99%		%REC	39-120	10	332122	02/03/24	02/05/24	TJW
Terphenyl-d14	100%		%REC	44-125	10	332122	02/03/24	02/05/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-T-1-2	Lab ID: 501289-018	Collected: 01/30/24 12:55
	Matrix: Soil	

501289-018 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1221	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1232	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1242	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1248	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1254	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1260	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1262	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Aroclor-1268	ND		ug/Kg	49	0.98	332511	02/08/24	02/08/24	MES
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	71%		%REC	19-121	0.98	332511	02/08/24	02/08/24	MES
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Pyridine	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Phenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Aniline	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332122	02/03/24	02/05/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
Isophorone	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Naphthalene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-018 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Fluorene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Anthracene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
Pyrene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332122	02/03/24	02/05/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Chrysene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332122	02/03/24	02/05/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	87%		%REC	29-120	1	332122	02/03/24	02/05/24	TJW
Phenol-d6	85%		%REC	30-120	1	332122	02/03/24	02/05/24	TJW
2,4,6-Tribromophenol	70%		%REC	32-120	1	332122	02/03/24	02/05/24	TJW
Nitrobenzene-d5	86%		%REC	33-120	1	332122	02/03/24	02/05/24	TJW
2-Fluorobiphenyl	85%		%REC	39-120	1	332122	02/03/24	02/05/24	TJW
Terphenyl-d14	101%		%REC	44-125	1	332122	02/03/24	02/05/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-SEP1-2	Lab ID: 501289-020	Collected: 01/30/24 13:20
	Matrix: Soil	

501289-020 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Arsenic	**1.5**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Barium	**29**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Chromium	**6.6**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Cobalt	**1.4**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Copper	**6.5**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Lead	**11**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Molybdenum	**4.0**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Nickel	**4.7**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Vanadium	**13**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Zinc	**16**		mg/Kg	4.9	0.98	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	50	5	332139	02/03/24	02/08/24	SME
DRO C10-C28	**61**		mg/Kg	50	5	332139	02/03/24	02/08/24	SME
ORO C28-C44	**120**		mg/Kg	99	5	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	120%		%REC	70-130	5	332139	02/03/24	02/08/24	SME
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Phenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	8,000	20	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-020 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	24,000	20	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-020 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	5,000	20	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	51%		%REC	29-120	20	332802	02/13/24	02/14/24	TJW
Phenol-d6	49%		%REC	30-120	20	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	44%		%REC	32-120	20	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	65%		%REC	33-120	20	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	95%		%REC	39-120	20	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	101%		%REC	44-125	20	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-SEP1-5	Lab ID: 501289-021	Collected: 01/30/24 13:25
	Matrix: Soil	

501289-021 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	110%		%REC	70-130	1	332139	02/03/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	88	0.88	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	88	0.88	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

501289-021 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	8.8	0.88	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	4.4	0.88	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	98%		%REC	70-145	0.88	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	118%		%REC	70-145	0.88	332183	02/05/24	02/05/24	YAH
Toluene-d8	102%		%REC	70-145	0.88	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	100%		%REC	70-145	0.88	332183	02/05/24	02/05/24	YAH

Sample ID: CL-SEP1-10 **Lab ID: 501289-022** **Collected: 01/30/24 13:30**
Matrix: Soil

501289-022 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	111%		%REC	70-130	0.99	332139	02/03/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-TR1-2	Lab ID: 501289-023	Collected: 01/30/24 13:45
	Matrix: Soil	

501289-023 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	3.0	0.99	332940	02/13/24	02/14/24	SBW
Arsenic	**1.6**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Barium	**35**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.50	0.99	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.50	0.99	332940	02/13/24	02/14/24	SBW
Chromium	**6.1**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Cobalt	**1.3**		mg/Kg	0.50	0.99	332940	02/13/24	02/14/24	SBW
Copper	**3.3**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Lead	**2.3**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Molybdenum	**3.4**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Nickel	**4.3**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	3.0	0.99	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.50	0.99	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	3.0	0.99	332940	02/13/24	02/14/24	SBW
Vanadium	**10**		mg/Kg	0.99	0.99	332940	02/13/24	02/14/24	SBW
Zinc	ND		mg/Kg	5.0	0.99	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332139	02/03/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332139	02/03/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	110%		%REC	70-130	1	332139	02/03/24	02/08/24	SME
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-023 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-023 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	96%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	93%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	84%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	95%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	102%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	103%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-TR1-5	Lab ID: 501289-024	Collected: 01/30/24 13:50
	Matrix: Soil	

501289-024 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	110	1.1	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	110	1.1	332183	02/05/24	02/05/24	YAH
cis-1,2-Dichloroethene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-024 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	11	1.1	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	5.7	1.1	332183	02/05/24	02/05/24	YAH
Surrogates				**Limits**					
Dibromofluoromethane	96%		%REC	70-145	1.1	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	115%		%REC	70-145	1.1	332183	02/05/24	02/05/24	YAH
Toluene-d8	102%		%REC	70-145	1.1	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	103%		%REC	70-145	1.1	332183	02/05/24	02/05/24	YAH

Sample ID: CL-W-75-5 **Lab ID: 501289-025** **Collected: 01/30/24 14:08**
Matrix: Soil

501289-025 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	95%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-75-10	Lab ID: 501289-026	Collected: 01/30/24 14:12
	Matrix: Soil	

501289-026 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Arsenic	**1.7**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Barium	**30**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Chromium	**17**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Cobalt	**1.9**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Copper	**5.6**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Lead	**4.4**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Molybdenum	**2.3**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Nickel	**7.4**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Vanadium	**17**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Zinc	**13**		mg/Kg	4.9	0.98	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.2	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	99%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Freon 12	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Chloromethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Vinyl Chloride	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Bromomethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Chloroethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Trichlorofluoromethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Acetone	ND		ug/Kg	72	0.72	332183	02/05/24	02/05/24	YAH
Freon 113	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Methylene Chloride	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
MTBE	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
trans-1,2-Dichloroethene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,1-Dichloroethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
2-Butanone	ND		ug/Kg	72	0.72	332183	02/05/24	02/05/24	YAH

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-026 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
2,2-Dichloropropane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Chloroform	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Bromochloromethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,1,1-Trichloroethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,1-Dichloropropene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Carbon Tetrachloride	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Benzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Trichloroethene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2-Dichloropropane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Bromodichloromethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Dibromomethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
4-Methyl-2-Pentanone	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
cis-1,3-Dichloropropene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Toluene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
trans-1,3-Dichloropropene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,1,2-Trichloroethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,3-Dichloropropane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Tetrachloroethene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Dibromochloromethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2-Dibromoethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Chlorobenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Ethylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
m,p-Xylenes	ND		ug/Kg	7.2	0.72	332183	02/05/24	02/05/24	YAH
o-Xylene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Styrene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Bromoform	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Isopropylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2,3-Trichloropropane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Propylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Bromobenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,3,5-Trimethylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
2-Chlorotoluene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
4-Chlorotoluene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
tert-Butylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2,4-Trimethylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
sec-Butylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
para-Isopropyl Toluene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,3-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,4-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
n-Butylbenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2,4-Trichlorobenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Hexachlorobutadiene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Naphthalene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
1,2,3-Trichlorobenzene	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH
Xylene (total)	ND		ug/Kg	3.6	0.72	332183	02/05/24	02/05/24	YAH

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-026 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	98%		%REC	70-145	0.72	332183	02/05/24	02/05/24	YAH
1,2-Dichloroethane-d4	118%		%REC	70-145	0.72	332183	02/05/24	02/05/24	YAH
Toluene-d8	102%		%REC	70-145	0.72	332183	02/05/24	02/05/24	YAH
Bromofluorobenzene	103%		%REC	70-145	0.72	332183	02/05/24	02/05/24	YAH
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	**1,200**		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-026 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	98%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	96%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	85%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	93%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	100%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	99%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Sample ID: CL-W-75-15 **Lab ID: 501289-027** **Collected: 01/30/24 14:15**
Matrix: Soil

501289-027 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	97%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-45-5	Lab ID: 501289-028	Collected: 01/30/24 14:50
	Matrix: Soil	

501289-028 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Arsenic	**7.2**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Barium	**45**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Beryllium	**0.99**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Cadmium	**0.59**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Chromium	**17**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Cobalt	**14**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Copper	**2.5**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Lead	**5.4**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Molybdenum	**7.7**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Nickel	**18**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/15/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Vanadium	**29**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Zinc	**13**		mg/Kg	4.9	0.98	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	**12**		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	98%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Phenol	**2,100**		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	0.99	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-028 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	0.99	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-028 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	0.99	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	96%		%REC	29-120	0.99	332802	02/13/24	02/14/24	TJW
Phenol-d6	96%		%REC	30-120	0.99	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	88%		%REC	32-120	0.99	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	92%		%REC	33-120	0.99	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	101%		%REC	39-120	0.99	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	101%		%REC	44-125	0.99	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-45-10	Lab ID: 501289-029	Collected: 01/30/24 14:55
	Matrix: Soil	

501289-029 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	98%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Freon 12	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Chloromethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Vinyl Chloride	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Bromomethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Chloroethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Trichlorofluoromethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Acetone	ND		ug/Kg	92	0.92	332280	02/06/24	02/06/24	LYZ
Freon 113	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,1-Dichloroethene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Methylene Chloride	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
MTBE	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
trans-1,2-Dichloroethene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,1-Dichloroethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
2-Butanone	ND		ug/Kg	92	0.92	332280	02/06/24	02/06/24	LYZ
cis-1,2-Dichloroethene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
2,2-Dichloropropane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Chloroform	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Bromochloromethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,1,1-Trichloroethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,1-Dichloropropene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Carbon Tetrachloride	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2-Dichloroethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Benzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Trichloroethene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2-Dichloropropane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Bromodichloromethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Dibromomethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
4-Methyl-2-Pentanone	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
cis-1,3-Dichloropropene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Toluene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
trans-1,3-Dichloropropene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,1,2-Trichloroethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,3-Dichloropropane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Tetrachloroethene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Dibromochloromethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-029 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Chlorobenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Ethylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
m,p-Xylenes	ND		ug/Kg	9.2	0.92	332280	02/06/24	02/06/24	LYZ
o-Xylene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Styrene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Bromoform	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Isopropylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2,3-Trichloropropane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Propylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Bromobenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,3,5-Trimethylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
2-Chlorotoluene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
4-Chlorotoluene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
tert-Butylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2,4-Trimethylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
sec-Butylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
para-Isopropyl Toluene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,3-Dichlorobenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,4-Dichlorobenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
n-Butylbenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2-Dichlorobenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2,4-Trichlorobenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Hexachlorobutadiene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Naphthalene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
1,2,3-Trichlorobenzene	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Xylene (total)	ND		ug/Kg	4.6	0.92	332280	02/06/24	02/06/24	LYZ
Surrogates				**Limits**					
Dibromofluoromethane	94%		%REC	70-145	0.92	332280	02/06/24	02/06/24	LYZ
1,2-Dichloroethane-d4	121%		%REC	70-145	0.92	332280	02/06/24	02/06/24	LYZ
Toluene-d8	102%		%REC	70-145	0.92	332280	02/06/24	02/06/24	LYZ
Bromofluorobenzene	102%		%REC	70-145	0.92	332280	02/06/24	02/06/24	LYZ

Sample ID: CL-W-45-15 **Lab ID: 501289-030** **Collected: 01/30/24 15:00**
Matrix: Soil

501289-030 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	98%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-74-5	Lab ID: 501289-031	Collected: 01/30/24 15:20
	Matrix: Soil	

501289-031 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Arsenic	**3.1**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Barium	**80**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Chromium	**22**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Cobalt	**1.2**		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Copper	**4.2**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Lead	**8.1**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Molybdenum	**2.4**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Nickel	**7.6**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Vanadium	**27**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Zinc	**9.8**		mg/Kg	4.8	0.95	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	**11**		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	104%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-031 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-031 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	81%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	74%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	50%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	71%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	66%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	56%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-74-10	Lab ID: 501289-032	Collected: 01/30/24 15:25

501289-032 Analyte	Result	Qual	Units	RL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B										
Antimony	ND		mg/Kg	2.9	Soil	0.95	332940	02/13/24	02/14/24	SBW
Arsenic	**4.2**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Barium	**170**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.48	Soil	0.95	332940	02/13/24	02/14/24	SBW
Cadmium	**53**		mg/Kg	0.48	Soil	0.95	332940	02/13/24	02/14/24	SBW
Chromium	**26**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Cobalt	**1.7**		mg/Kg	0.48	Soil	0.95	332940	02/13/24	02/14/24	SBW
Copper	**4.9**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Lead	**3.1**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Molybdenum	**1.9**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Nickel	**41**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	Soil	0.95	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	Soil	0.95	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	Soil	0.95	332940	02/13/24	02/14/24	SBW
Vanadium	**34**		mg/Kg	0.95	Soil	0.95	332940	02/13/24	02/14/24	SBW
Zinc	**39**		mg/Kg	4.8	Soil	0.95	332940	02/13/24	02/14/24	SBW
Method: EPA 6020 Prep Method: EPA 3015A										
Cadmium	ND		mg/L	0.25	TCLP Leachate	10	333890	02/24/24	02/26/24	DXC
Method: EPA 6020 Prep Method: EPA 3050B										
Cadmium	**56**		mg/Kg	0.48	Soil	0.95	333593	02/13/24	02/21/24	JCP
Method: EPA 6020 Prep Method: METHOD										
Cadmium	**0.69**		mg/L	0.25	WET Leachate	10	333883	02/23/24	02/26/24	DXC
Method: EPA 7471A Prep Method: METHOD										
Mercury	ND		mg/Kg	0.15	Soil	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M										
GRO C8-C10	ND		mg/Kg	9.9	Soil	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	9.9	Soil	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	Soil	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**						
n-Triacontane	99%		%REC	70-130	Soil	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035										
3-Chloropropene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Freon 12	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Chloromethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Vinyl Chloride	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Bromomethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-032 Analyte	Result	Qual	Units	RL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Chloroethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Trichlorofluoromethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Acetone	**1,400**	E	ug/Kg	89	Soil	0.89	332517	02/08/24	02/08/24	HMN
Freon 113	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,1-Dichloroethene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Methylene Chloride	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
MTBE	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,1-Dichloroethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
2-Butanone	ND		ug/Kg	89	Soil	0.89	332517	02/08/24	02/08/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
2,2-Dichloropropane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Chloroform	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Bromochloromethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,1-Dichloropropene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Carbon Tetrachloride	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2-Dichloroethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Benzene	**76**		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Trichloroethene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2-Dichloropropane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Bromodichloromethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Dibromomethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Toluene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,3-Dichloropropane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Tetrachloroethene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Dibromochloromethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2-Dibromoethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Chlorobenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Ethylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
m,p-Xylenes	ND		ug/Kg	8.9	Soil	0.89	332517	02/08/24	02/08/24	HMN
o-Xylene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Styrene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Bromoform	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Isopropylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Propylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Bromobenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
2-Chlorotoluene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
4-Chlorotoluene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
tert-Butylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
sec-Butylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-032 Analyte	Result	Qual	Units	RL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
1,4-Dichlorobenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
n-Butylbenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Hexachlorobutadiene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Naphthalene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Xylene (total)	ND		ug/Kg	4.5	Soil	0.89	332517	02/08/24	02/08/24	HMN
Surrogates				**Limits**						
Dibromofluoromethane	102%		%REC	70-145	Soil	0.89	332517	02/08/24	02/08/24	HMN
1,2-Dichloroethane-d4	95%		%REC	70-145	Soil	0.89	332517	02/08/24	02/08/24	HMN
Toluene-d8	93%		%REC	70-145	Soil	0.89	332517	02/08/24	02/08/24	HMN
Bromofluorobenzene	110%		%REC	70-145	Soil	0.89	332517	02/08/24	02/08/24	HMN
Method: EPA 8270C Prep Method: EPA 3546										
Carbazole	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Phenol	**1,900**		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	Soil	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-032 Analyte	Result	Qual	Units	RL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Acenaphthylene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	Soil	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	Soil	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**						
2-Fluorophenol	87%		%REC	29-120	Soil	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	87%		%REC	30-120	Soil	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	60%		%REC	32-120	Soil	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	82%		%REC	33-120	Soil	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	78%		%REC	39-120	Soil	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	71%		%REC	44-125	Soil	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

Sample ID: CL-W-74-15	Lab ID: 501289-033	Collected: 01/30/24 15:30
	Matrix: Soil	

501289-033 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	104%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Sample ID: CL-W-77-5	Lab ID: 501289-034	Collected: 01/30/24 15:50
	Matrix: Soil	

501289-034 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	99%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-77-10	Lab ID: 501289-035	Collected: 01/30/24 15:55
	Matrix: Soil	

501289-035 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Arsenic	ND		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Barium	**32**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Chromium	**6.5**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Cobalt	**1.8**		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Copper	**3.2**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Lead	**2.3**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Molybdenum	**1.2**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Nickel	**5.9**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332940	02/13/24	02/14/24	SBW
Vanadium	**8.8**		mg/Kg	0.98	0.98	332940	02/13/24	02/14/24	SBW
Zinc	**6.5**		mg/Kg	4.9	0.98	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	**19**		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	104%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Freon 12	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Chloromethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Vinyl Chloride	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Bromomethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Chloroethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Trichlorofluoromethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Acetone	**150**		ug/Kg	84	0.84	332280	02/06/24	02/06/24	LYZ
Freon 113	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,1-Dichloroethene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Methylene Chloride	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
MTBE	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
trans-1,2-Dichloroethene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,1-Dichloroethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
2-Butanone	ND		ug/Kg	84	0.84	332280	02/06/24	02/06/24	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-035 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
2,2-Dichloropropane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Chloroform	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Bromochloromethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,1,1-Trichloroethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,1-Dichloropropene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Carbon Tetrachloride	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2-Dichloroethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Benzene	**85**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Trichloroethene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2-Dichloropropane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Bromodichloromethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Dibromomethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
4-Methyl-2-Pentanone	**5.2**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
cis-1,3-Dichloropropene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Toluene	**4.5**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
trans-1,3-Dichloropropene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,1,2-Trichloroethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,3-Dichloropropane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Tetrachloroethene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Dibromochloromethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2-Dibromoethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Chlorobenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Ethylbenzene	**37**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
m,p-Xylenes	**11**		ug/Kg	8.4	0.84	332280	02/06/24	02/06/24	LYZ
o-Xylene	**19**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Styrene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Bromoform	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Isopropylbenzene	**7.6**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2,3-Trichloropropane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Propylbenzene	**5.7**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Bromobenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,3,5-Trimethylbenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
2-Chlorotoluene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
4-Chlorotoluene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
tert-Butylbenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2,4-Trimethylbenzene	**9.3**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
sec-Butylbenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
para-Isopropyl Toluene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,3-Dichlorobenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,4-Dichlorobenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
n-Butylbenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2-Dichlorobenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2,4-Trichlorobenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Hexachlorobutadiene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Naphthalene	**7.6**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
1,2,3-Trichlorobenzene	ND		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ
Xylene (total)	**30**		ug/Kg	4.2	0.84	332280	02/06/24	02/06/24	LYZ

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-035 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	96%		%REC	70-145	0.84	332280	02/06/24	02/06/24	LYZ
1,2-Dichloroethane-d4	112%		%REC	70-145	0.84	332280	02/06/24	02/06/24	LYZ
Toluene-d8	107%		%REC	70-145	0.84	332280	02/06/24	02/06/24	LYZ
Bromofluorobenzene	100%		%REC	70-145	0.84	332280	02/06/24	02/06/24	LYZ
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-035 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	84%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	82%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	72%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	79%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	85%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	84%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-W-77-15	Lab ID: 501289-036	Collected: 01/30/24 16:00
	Matrix: Soil	

501289-036 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	**11**		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	69	0.69	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	69	0.69	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Benzene	**59**		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-036 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Ethylbenzene	**9.2**		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	6.9	0.69	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.4	0.69	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	102%		%REC	70-145	0.69	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	97%		%REC	70-145	0.69	332291	02/06/24	02/06/24	HMN
Toluene-d8	100%		%REC	70-145	0.69	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	108%		%REC	70-145	0.69	332291	02/06/24	02/06/24	HMN

Sample ID: N-W-48-5 **Lab ID: 501289-037** **Collected: 01/31/24 07:00**
Matrix: Soil

501289-037 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	102%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: N-W-48-10	Lab ID: 501289-038	Collected: 01/31/24 07:05
	Matrix: Soil	

501289-038 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Arsenic	**1.5**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Barium	**38**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Chromium	**15**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Cobalt	**2.1**		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Copper	**4.4**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Lead	**3.6**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Molybdenum	ND		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Nickel	**8.5**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Vanadium	**19**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Zinc	**16**		mg/Kg	4.8	0.95	332940	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.2	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	104%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	72	0.72	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	72	0.72	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-038 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dibromoethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.2	0.72	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-038 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	103%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	98%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
Toluene-d8	101%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	103%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	**1,100**		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-038 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	79%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	74%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	57%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	74%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	76%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	62%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Sample ID: N-W-48-15 **Lab ID: 501289-039** **Collected: 01/31/24 07:10**
Matrix: Soil

501289-039 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: N-W-46-5	Lab ID: 501289-040	Collected: 01/31/24 07:30
	Matrix: Soil	

501289-040 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	100%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: N-W-46-10	Lab ID: 501289-041	Collected: 01/31/24 07:35
	Matrix: Soil	

501289-041 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Arsenic	**1.1**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Barium	**16**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Chromium	**10**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Cobalt	**1.2**		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Copper	**2.0**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Lead	**2.6**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Molybdenum	**1.5**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Nickel	**3.6**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	0.95	332940	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.95	332940	02/13/24	02/14/24	SBW
Vanadium	**14**		mg/Kg	0.95	0.95	332940	02/13/24	02/14/24	SBW
Zinc	**12**		mg/Kg	4.8	0.95	332940	02/13/24	02/14/24	SBW
Method: EPA 6020 Prep Method: EPA 3050B									
Cadmium	ND		mg/Kg	0.48	0.95	333593	02/13/24	02/21/24	JCP
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	75	0.75	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-041 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
trans-1,2-Dichloroethene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	75	0.75	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2-Dibromoethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.5	0.75	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

501289-041 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2,3-Trichlorobenzene	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.7	0.75	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	103%		%REC	70-145	0.75	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	98%		%REC	70-145	0.75	332291	02/06/24	02/06/24	HMN
Toluene-d8	99%		%REC	70-145	0.75	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	105%		%REC	70-145	0.75	332291	02/06/24	02/06/24	HMN
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Phenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/14/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-041 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/14/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/14/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	101%		%REC	29-120	1	332802	02/13/24	02/14/24	TJW
Phenol-d6	97%		%REC	30-120	1	332802	02/13/24	02/14/24	TJW
2,4,6-Tribromophenol	84%		%REC	32-120	1	332802	02/13/24	02/14/24	TJW
Nitrobenzene-d5	99%		%REC	33-120	1	332802	02/13/24	02/14/24	TJW
2-Fluorobiphenyl	107%		%REC	39-120	1	332802	02/13/24	02/14/24	TJW
Terphenyl-d14	106%		%REC	44-125	1	332802	02/13/24	02/14/24	TJW

Sample ID: N-W-46-15 **Lab ID: 501289-042** **Collected: 01/31/24 07:40**
Matrix: Soil

501289-042 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	10	1	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	1	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	103%		%REC	70-130	1	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-B-5-5	Lab ID: 501289-043	Collected: 01/31/24 08:15
	Matrix: Soil	

501289-043 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
DRO C10-C28	ND		mg/Kg	9.9	0.99	332140	02/03/24	02/06/24	KMB
ORO C28-C44	ND		mg/Kg	20	0.99	332140	02/03/24	02/06/24	KMB
Surrogates				**Limits**					
n-Triacontane	100%		%REC	70-130	0.99	332140	02/03/24	02/06/24	KMB

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-B-5-10	Lab ID: 501289-044	Collected: 01/31/24 08:20
	Matrix: Soil	

501289-044 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Arsenic	**1.0**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Barium	**22**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Chromium	**9.7**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Cobalt	**0.80**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Copper	**3.7**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Lead	**2.8**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Molybdenum	**1.8**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Nickel	**3.9**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Vanadium	**8.8**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Zinc	**6.0**		mg/Kg	4.9	0.98	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/07/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/07/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/07/24	SME
Surrogates				**Limits**					
n-Triacontane	118%		%REC	70-130	1	332141	02/07/24	02/07/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	71	0.71	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	71	0.71	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-044 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2-Dibromoethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.1	0.71	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.6	0.71	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-044 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	103%		%REC	70-145	0.71	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	101%		%REC	70-145	0.71	332291	02/06/24	02/06/24	HMN
Toluene-d8	98%		%REC	70-145	0.71	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	105%		%REC	70-145	0.71	332291	02/06/24	02/06/24	HMN
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Pyridine	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Phenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Aniline	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	332802	02/13/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
Isophorone	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Fluorene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-044 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Benzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
Pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	332802	02/13/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Chrysene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	332802	02/13/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	77%		%REC	29-120	1	332802	02/13/24	02/15/24	TJW
Phenol-d6	76%		%REC	30-120	1	332802	02/13/24	02/15/24	TJW
2,4,6-Tribromophenol	72%		%REC	32-120	1	332802	02/13/24	02/15/24	TJW
Nitrobenzene-d5	76%		%REC	33-120	1	332802	02/13/24	02/15/24	TJW
2-Fluorobiphenyl	84%		%REC	39-120	1	332802	02/13/24	02/15/24	TJW
Terphenyl-d14	83%		%REC	44-125	1	332802	02/13/24	02/15/24	TJW

Sample ID: CL-W-B-5-15 **Lab ID: 501289-045** **Collected: 01/31/24 08:25**
Matrix: Soil

501289-045 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/07/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/07/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/07/24	SME
Surrogates				**Limits**					
n-Triacontane	119%		%REC	70-130	1	332141	02/07/24	02/07/24	SME

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-TF3-2	Lab ID: 501289-046	Collected: 01/31/24 08:55
	Matrix: Soil	

501289-046 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Arsenic	**1.2**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Barium	**110**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Cadmium	**0.74**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Chromium	**7.3**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Cobalt	**1.4**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Copper	**4.7**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Lead	**3.3**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Molybdenum	**2.3**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Nickel	**6.2**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Vanadium	**10**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Zinc	**52**		mg/Kg	4.9	0.98	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	50	5	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	50	5	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	100	5	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	128%		%REC	70-130	5	332141	02/07/24	02/08/24	SME
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Pyridine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Phenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Aniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	20,000	50	332802	02/13/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-046 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Isophorone	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Fluorene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Anthracene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Pyrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Chrysene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-046 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol		DO	%REC	29-120	50	332802	02/13/24	02/15/24	TJW
Phenol-d6		DO	%REC	30-120	50	332802	02/13/24	02/15/24	TJW
2,4,6-Tribromophenol		DO	%REC	32-120	50	332802	02/13/24	02/15/24	TJW
Nitrobenzene-d5		DO	%REC	33-120	50	332802	02/13/24	02/15/24	TJW
2-Fluorobiphenyl		DO	%REC	39-120	50	332802	02/13/24	02/15/24	TJW
Terphenyl-d14		DO	%REC	44-125	50	332802	02/13/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-TF3-5	Lab ID: 501289-047	Collected: 01/31/24 09:00
	Matrix: Soil	

501289-047 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	50	5	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	50	5	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	100	5	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	130%		%REC	70-130	5	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	74	0.74	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	74	0.74	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-047 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.4	0.74	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.7	0.74	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	105%		%REC	70-145	0.74	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	100%		%REC	70-145	0.74	332291	02/06/24	02/06/24	HMN
Toluene-d8	103%		%REC	70-145	0.74	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	115%		%REC	70-145	0.74	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-TF3-10	Lab ID: 501289-048	Collected: 01/31/24 09:05
	Matrix: Soil	

501289-048 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	123%		%REC	70-130	0.99	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	70	0.7	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	70	0.7	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-048 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.0	0.7	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	104%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	101%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN
Toluene-d8	98%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	104%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN

Sample ID: CL-TF3-15 **Lab ID: 501289-049** **Collected: 01/31/24 09:10**
Matrix: Soil

501289-049 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	117%		%REC	70-130	1	332141	02/07/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-TF4-2	Lab ID: 501289-050	Collected: 01/31/24 09:20
	Matrix: Soil	

501289-050 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Arsenic	ND		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Barium	**36**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Cadmium	**0.89**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Chromium	**4.9**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Cobalt	**0.91**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Copper	**3.3**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Lead	**4.2**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Molybdenum	**4.4**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Nickel	**3.7**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Vanadium	**7.8**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Zinc	**13**		mg/Kg	4.9	0.98	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	50	5	332141	02/07/24	02/08/24	TJW
DRO C10-C28	**180**		mg/Kg	50	5	332141	02/07/24	02/08/24	TJW
ORO C28-C44	**370**		mg/Kg	100	5	332141	02/07/24	02/08/24	TJW
Surrogates				**Limits**					
n-Triacontane	105%		%REC	70-130	5	332141	02/07/24	02/08/24	TJW
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Pyridine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Phenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Aniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	20,000	50	332802	02/13/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-050 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Isophorone	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Fluorene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Anthracene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Pyrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	60,000	50	332802	02/13/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Chrysene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-050 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	13,000	50	332802	02/13/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol		DO	%REC	29-120	50	332802	02/13/24	02/15/24	TJW
Phenol-d6		DO	%REC	30-120	50	332802	02/13/24	02/15/24	TJW
2,4,6-Tribromophenol		DO	%REC	32-120	50	332802	02/13/24	02/15/24	TJW
Nitrobenzene-d5		DO	%REC	33-120	50	332802	02/13/24	02/15/24	TJW
2-Fluorobiphenyl		DO	%REC	39-120	50	332802	02/13/24	02/15/24	TJW
Terphenyl-d14		DO	%REC	44-125	50	332802	02/13/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-TF4-5	Lab ID: 501289-051	Collected: 01/31/24 09:25
	Matrix: Soil	

501289-051 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
DRO C10-C28	**31**		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
ORO C28-C44	**23**		mg/Kg	20	1	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	125%		%REC	70-130	1	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	76	0.76	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	76	0.76	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-051 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.6	0.76	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	104%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	100%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN
Toluene-d8	100%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	108%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-TF4-10	Lab ID: 501289-052	Collected: 01/31/24 09:30
	Matrix: Soil	

501289-052 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	121%		%REC	70-130	1	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	76	0.76	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	76	0.76	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-052 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.6	0.76	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.8	0.76	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	103%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	99%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN
Toluene-d8	98%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	103%		%REC	70-145	0.76	332291	02/06/24	02/06/24	HMN

Sample ID: CL-TF4-15 **Lab ID: 501289-053** **Collected: 01/31/24 09:40**
Matrix: Soil

501289-053 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	117%		%REC	70-130	0.99	332141	02/07/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-FEB1-2	Lab ID: 501289-054	Collected: 01/31/24 09:45
	Matrix: Soil	

501289-054 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	3.0	0.99	332966	02/13/24	02/14/24	SBW
Arsenic	ND		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Barium	**30**		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.50	0.99	332966	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.50	0.99	332966	02/13/24	02/14/24	SBW
Chromium	**5.4**		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Cobalt	**1.1**		mg/Kg	0.50	0.99	332966	02/13/24	02/14/24	SBW
Copper	**2.4**		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Lead	**2.6**		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Molybdenum	**1.9**		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Nickel	**3.7**		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	3.0	0.99	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.50	0.99	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	3.0	0.99	332966	02/13/24	02/14/24	SBW
Vanadium	**7.7**		mg/Kg	0.99	0.99	332966	02/13/24	02/14/24	SBW
Zinc	**5.7**		mg/Kg	5.0	0.99	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/07/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/07/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/07/24	SME
Surrogates				**Limits**					
n-Triacontane	128%		%REC	70-130	1	332141	02/07/24	02/07/24	SME
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pyridine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Phenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Aniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	333029	02/14/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-054 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Isophorone	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluorene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Chrysene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-054 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	77%		%REC	29-120	1	333029	02/14/24	02/15/24	TJW
Phenol-d6	75%		%REC	30-120	1	333029	02/14/24	02/15/24	TJW
2,4,6-Tribromophenol	71%		%REC	32-120	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene-d5	74%		%REC	33-120	1	333029	02/14/24	02/15/24	TJW
2-Fluorobiphenyl	85%		%REC	39-120	1	333029	02/14/24	02/15/24	TJW
Terphenyl-d14	85%		%REC	44-125	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: CL-FEB1-5	Lab ID: 501289-055	Collected: 01/31/24 09:50
	Matrix: Soil	

501289-055 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	119%		%REC	70-130	0.99	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	70	0.7	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	70	0.7	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-055 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.0	0.7	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.5	0.7	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	103%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	100%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN
Toluene-d8	94%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	103%		%REC	70-145	0.7	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-FEB1-15	Lab ID: 501289-057	Collected: 01/31/24 10:00
	Matrix: Soil	

501289-057 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	101%		%REC	70-130	1	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	83	0.83	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	83	0.83	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

501289-057 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	8.3	0.83	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	105%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	102%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN
Toluene-d8	97%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	102%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-TH1-2	Lab ID: 501289-058	Collected: 01/31/24 10:30
	Matrix: Soil	

501289-058 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.96	332966	02/13/24	02/14/24	SBW
Arsenic	**1.3**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Barium	**24**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Chromium	**7.6**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Cobalt	**0.84**		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Copper	**3.2**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Lead	**3.0**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Molybdenum	**1.8**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Nickel	**3.6**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.96	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.96	332966	02/13/24	02/14/24	SBW
Vanadium	**8.5**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Zinc	**8.6**		mg/Kg	4.8	0.96	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
DRO C10-C28	**13**		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	128%		%REC	70-130	0.99	332141	02/07/24	02/08/24	SME
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Pyridine	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Phenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Aniline	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	4,000	10	333029	02/14/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-058 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
Isophorone	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Fluorene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Anthracene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Benzidine	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
Pyrene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	12,000	10	333029	02/14/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Chrysene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

501289-058 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	2,500	10	333029	02/14/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	47%		%REC	29-120	10	333029	02/14/24	02/15/24	TJW
Phenol-d6	53%		%REC	30-120	10	333029	02/14/24	02/15/24	TJW
2,4,6-Tribromophenol	50%		%REC	32-120	10	333029	02/14/24	02/15/24	TJW
Nitrobenzene-d5	58%		%REC	33-120	10	333029	02/14/24	02/15/24	TJW
2-Fluorobiphenyl	78%		%REC	39-120	10	333029	02/14/24	02/15/24	TJW
Terphenyl-d14	83%		%REC	44-125	10	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-TH1-5	Lab ID: 501289-059	Collected: 01/31/24 10:40
	Matrix: Soil	

501289-059 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	123%		%REC	70-130	1	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	73	0.73	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	73	0.73	332291	02/06/24	02/06/24	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-059 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dibromoethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.3	0.73	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.7	0.73	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					
Dibromofluoromethane	102%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	96%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN
Toluene-d8	100%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	106%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-TH1-10	Lab ID: 501289-060	Collected: 01/31/24 10:45
	Matrix: Soil	

501289-060 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.96	332966	02/13/24	02/14/24	SBW
Arsenic	**3.0**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Barium	**12**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Chromium	**11**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Cobalt	**0.68**		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Copper	**2.2**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Lead	**3.1**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Molybdenum	**2.9**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Nickel	**3.6**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.96	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	0.96	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.96	332966	02/13/24	02/14/24	SBW
Vanadium	**14**		mg/Kg	0.96	0.96	332966	02/13/24	02/14/24	SBW
Zinc	ND		mg/Kg	4.8	0.96	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	332929	02/13/24	02/14/24	JCP
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	118%		%REC	70-130	1	332141	02/07/24	02/08/24	SME
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pyridine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Phenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Aniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	333029	02/14/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-060 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Isophorone	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluorene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Chrysene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

501289-060 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	74%		%REC	29-120	1	333029	02/14/24	02/15/24	TJW
Phenol-d6	72%		%REC	30-120	1	333029	02/14/24	02/15/24	TJW
2,4,6-Tribromophenol	69%		%REC	32-120	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene-d5	70%		%REC	33-120	1	333029	02/14/24	02/15/24	TJW
2-Fluorobiphenyl	82%		%REC	39-120	1	333029	02/14/24	02/15/24	TJW
Terphenyl-d14	83%		%REC	44-125	1	333029	02/14/24	02/15/24	TJW

Sample ID: CL-W-6-5 **Lab ID: 501289-061** **Collected: 01/31/24 10:45**
Matrix: Soil

501289-061 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	50	5	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	50	5	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	99	5	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	129%		%REC	70-130	5	332141	02/07/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-6-10	Lab ID: 501289-062	Collected: 01/31/24 10:55
	Matrix: Soil	

501289-062 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.97	332966	02/13/24	02/14/24	SBW
Arsenic	**1.7**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Barium	**35**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Chromium	**7.6**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Cobalt	**1.2**		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Copper	**2.9**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Lead	**1.8**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Molybdenum	**1.9**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Nickel	**3.3**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.97	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.97	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.97	332966	02/13/24	02/14/24	SBW
Vanadium	**9.1**		mg/Kg	0.97	0.97	332966	02/13/24	02/14/24	SBW
Zinc	ND		mg/Kg	4.9	0.97	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	333230	02/16/24	02/16/24	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	117%		%REC	70-130	0.99	332141	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	83	0.83	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	83	0.83	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-062 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dibromoethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	8.3	0.83	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	4.1	0.83	332291	02/06/24	02/06/24	HMN

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-062 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	102%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	97%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN
Toluene-d8	100%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	103%		%REC	70-145	0.83	332291	02/06/24	02/06/24	HMN
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pyridine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Phenol	**2,000**		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Aniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	333029	02/14/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Isophorone	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluorene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

501289-062 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Chrysene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-octylphthalate	**260**		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	82%		%REC	29-120	1	333029	02/14/24	02/15/24	TJW
Phenol-d6	82%		%REC	30-120	1	333029	02/14/24	02/15/24	TJW
2,4,6-Tribromophenol	74%		%REC	32-120	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene-d5	78%		%REC	33-120	1	333029	02/14/24	02/15/24	TJW
2-Fluorobiphenyl	88%		%REC	39-120	1	333029	02/14/24	02/15/24	TJW
Terphenyl-d14	88%		%REC	44-125	1	333029	02/14/24	02/15/24	TJW

Sample ID: CL-W-6-15 **Lab ID: 501289-063** **Collected: 01/31/24 11:00**
Matrix: Soil

501289-063 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	113%		%REC	70-130	0.99	332141	02/07/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-60-5	Lab ID: 501289-064	Collected: 01/31/24 11:30
	Matrix: Soil	

501289-064 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
DRO C10-C28	**17**		mg/Kg	9.9	0.99	332141	02/07/24	02/08/24	SME
ORO C28-C44	**22**		mg/Kg	20	0.99	332141	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	118%		%REC	70-130	0.99	332141	02/07/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: CL-W-60-10	Lab ID: 501289-065	Collected: 01/31/24 11:35
	Matrix: Soil	

501289-065 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.95	332966	02/13/24	02/14/24	SBW
Arsenic	**13**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Barium	**50**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Beryllium	**1.2**		mg/Kg	0.48	0.95	332966	02/13/24	02/14/24	SBW
Cadmium	**0.51**		mg/Kg	0.48	0.95	332966	02/13/24	02/14/24	SBW
Chromium	**26**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Cobalt	**5.3**		mg/Kg	0.48	0.95	332966	02/13/24	02/14/24	SBW
Copper	**28**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Lead	**5.8**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Molybdenum	**2.1**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Nickel	**50**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.95	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.48	0.95	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.95	332966	02/13/24	02/14/24	SBW
Vanadium	**35**		mg/Kg	0.95	0.95	332966	02/13/24	02/14/24	SBW
Zinc	**82**		mg/Kg	4.8	0.95	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.2	333230	02/16/24	02/19/24	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332332	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332332	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332332	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	111%		%REC	70-130	1	332332	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	72	0.72	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	72	0.72	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-065 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Benzene	**46**		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Trichloroethene	**4.7**		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dibromoethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Ethylbenzene	**3.8**		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	**12**		ug/Kg	7.2	0.72	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN
Xylene (total)	**12**		ug/Kg	3.6	0.72	332291	02/06/24	02/06/24	HMN

Surrogates	Limits

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-065 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	104%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	100%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
Toluene-d8	98%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	107%		%REC	70-145	0.72	332291	02/06/24	02/06/24	HMN
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pyridine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Phenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Aniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	333029	02/14/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Isophorone	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluorene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-065 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Chrysene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	70%		%REC	29-120	1	333029	02/14/24	02/15/24	TJW
Phenol-d6	65%		%REC	30-120	1	333029	02/14/24	02/15/24	TJW
2,4,6-Tribromophenol	47%		%REC	32-120	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene-d5	61%		%REC	33-120	1	333029	02/14/24	02/15/24	TJW
2-Fluorobiphenyl	61%		%REC	39-120	1	333029	02/14/24	02/15/24	TJW
Terphenyl-d14	56%		%REC	44-125	1	333029	02/14/24	02/15/24	TJW

Sample ID: CL-W-60-15 **Lab ID: 501289-066** **Collected: 01/31/24 11:40**
Matrix: Soil

501289-066 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332332	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332332	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332332	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	106%		%REC	70-130	0.99	332332	02/07/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Sample ID: AD-2-5	Lab ID: 501289-067	Collected: 01/31/24 12:10
	Matrix: Soil	

501289-067 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Arsenic	**2.7**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Barium	**25**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Cadmium	**0.94**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Chromium	**12**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Cobalt	**2.4**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Copper	**5.4**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Lead	**6.6**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Molybdenum	ND		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Nickel	**9.4**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Vanadium	**17**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Zinc	**28**		mg/Kg	4.9	0.98	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	333230	02/16/24	02/19/24	KAM
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Pyridine	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Phenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Aniline	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	800	2	333029	02/14/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Nitrobenzene	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
Isophorone	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-067 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2,4-Trichlorobenzene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Fluorene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Anthracene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Benzidine	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
Pyrene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	2,400	2	333029	02/14/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Chrysene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	500	2	333029	02/14/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	64%		%REC	29-120	2	333029	02/14/24	02/15/24	TJW
Phenol-d6	62%		%REC	30-120	2	333029	02/14/24	02/15/24	TJW
2,4,6-Tribromophenol	48%		%REC	32-120	2	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

Analysis Results for 501289

501289-067 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Nitrobenzene-d5	57%		%REC	33-120	2	333029	02/14/24	02/15/24	TJW
2-Fluorobiphenyl	62%		%REC	39-120	2	333029	02/14/24	02/15/24	TJW
Terphenyl-d14	58%		%REC	44-125	2	333029	02/14/24	02/15/24	TJW

Sample ID: N-W-22-5 **Lab ID: 501289-071** **Collected: 01/31/24 12:55**
Matrix: Soil

501289-071 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332332	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332332	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332332	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	103%		%REC	70-130	0.99	332332	02/07/24	02/08/24	SME

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

Sample ID: N-W-22-10	Lab ID: 501289-072	Collected: 01/31/24 13:00
	Matrix: Soil	

501289-072 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Arsenic	**4.8**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Barium	**18**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Beryllium	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Cadmium	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Chromium	**8.0**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Cobalt	**0.77**		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Copper	**1.6**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Lead	**3.5**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Molybdenum	**19**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Nickel	**4.3**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Selenium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Silver	ND		mg/Kg	0.49	0.98	332966	02/13/24	02/14/24	SBW
Thallium	ND		mg/Kg	2.9	0.98	332966	02/13/24	02/14/24	SBW
Vanadium	**15**		mg/Kg	0.98	0.98	332966	02/13/24	02/14/24	SBW
Zinc	**5.8**		mg/Kg	4.9	0.98	332966	02/13/24	02/14/24	SBW
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	333230	02/16/24	02/19/24	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	332332	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	9.9	0.99	332332	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	0.99	332332	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	109%		%REC	70-130	0.99	332332	02/07/24	02/08/24	SME
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Freon 12	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Chloromethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Vinyl Chloride	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Bromomethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Chloroethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Trichlorofluoromethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Acetone	ND		ug/Kg	73	0.73	332291	02/06/24	02/06/24	HMN
Freon 113	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Methylene Chloride	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
MTBE	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,1-Dichloroethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
2-Butanone	ND		ug/Kg	73	0.73	332291	02/06/24	02/06/24	HMN

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-072 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
cis-1,2-Dichloroethene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
2,2-Dichloropropane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Chloroform	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Bromochloromethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,1,1-Trichloroethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,1-Dichloropropene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Carbon Tetrachloride	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Benzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Trichloroethene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichloropropane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Bromodichloromethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Dibromomethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Toluene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,1,2-Trichloroethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,3-Dichloropropane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Tetrachloroethene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Dibromochloromethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dibromoethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Chlorobenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Ethylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
m,p-Xylenes	ND		ug/Kg	7.3	0.73	332291	02/06/24	02/06/24	HMN
o-Xylene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Styrene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Bromoform	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Isopropylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2,3-Trichloropropane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Propylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Bromobenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
2-Chlorotoluene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
4-Chlorotoluene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
tert-Butylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
sec-Butylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
para-Isopropyl Toluene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,3-Dichlorobenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,4-Dichlorobenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
n-Butylbenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichlorobenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Hexachlorobutadiene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Naphthalene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Xylene (total)	ND		ug/Kg	3.6	0.73	332291	02/06/24	02/06/24	HMN
Surrogates				**Limits**					

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

501289-072 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromofluoromethane	103%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN
1,2-Dichloroethane-d4	99%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN
Toluene-d8	99%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN
Bromofluorobenzene	104%		%REC	70-145	0.73	332291	02/06/24	02/06/24	HMN
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pyridine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodimethylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Phenol	**2,000**		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Aniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2-Chlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,3-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,4-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzyl alcohol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-Dichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-,4-Methylphenol	ND		ug/Kg	400	1	333029	02/14/24	02/15/24	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachloroethane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Isophorone	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dimethylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzoic acid	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Naphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobutadiene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Methylnaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Chloronaphthalene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dimethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,6-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Acenaphthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
4-Nitrophenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenzofuran	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
2,4-Dinitrotoluene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Diethylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluorene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 501289

501289-072 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Nitroaniline	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Hexachlorobenzene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Pentachlorophenol	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Phenanthrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-butylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Butylbenzylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	333029	02/14/24	02/15/24	TJW
Benzo(a)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Chrysene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Di-n-octylphthalate	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(b)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(k)fluoranthene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(a)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	333029	02/14/24	02/15/24	TJW
Surrogates				**Limits**					
2-Fluorophenol	88%		%REC	29-120	1	333029	02/14/24	02/15/24	TJW
Phenol-d6	89%		%REC	30-120	1	333029	02/14/24	02/15/24	TJW
2,4,6-Tribromophenol	81%		%REC	32-120	1	333029	02/14/24	02/15/24	TJW
Nitrobenzene-d5	86%		%REC	33-120	1	333029	02/14/24	02/15/24	TJW
2-Fluorobiphenyl	92%		%REC	39-120	1	333029	02/14/24	02/15/24	TJW
Terphenyl-d14	92%		%REC	44-125	1	333029	02/14/24	02/15/24	TJW

Sample ID: N-W-22-15 **Lab ID: 501289-073** **Collected: 01/31/24 13:05**
Matrix: Soil

501289-073 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	332332	02/07/24	02/08/24	SME
DRO C10-C28	ND		mg/Kg	10	1	332332	02/07/24	02/08/24	SME
ORO C28-C44	ND		mg/Kg	20	1	332332	02/07/24	02/08/24	SME
Surrogates				**Limits**					
n-Triacontane	107%		%REC	70-130	1	332332	02/07/24	02/08/24	SME

* Value is outside QC limits
DO Diluted Out
E Response exceeds instrument's linear range
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 501289

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1127912	Batch: 332940
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1127912 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	02/13/24	02/14/24
Arsenic	ND		mg/Kg	1.0	02/13/24	02/14/24
Barium	ND		mg/Kg	1.0	02/13/24	02/14/24
Beryllium	ND		mg/Kg	0.50	02/13/24	02/14/24
Cadmium	ND		mg/Kg	0.50	02/13/24	02/14/24
Chromium	ND		mg/Kg	1.0	02/13/24	02/14/24
Cobalt	ND		mg/Kg	0.50	02/13/24	02/14/24
Copper	ND		mg/Kg	1.0	02/13/24	02/14/24
Lead	ND		mg/Kg	1.0	02/13/24	02/14/24
Molybdenum	ND		mg/Kg	1.0	02/13/24	02/14/24
Nickel	ND		mg/Kg	1.0	02/13/24	02/14/24
Selenium	ND		mg/Kg	3.0	02/13/24	02/14/24
Silver	ND		mg/Kg	0.50	02/13/24	02/14/24
Thallium	ND		mg/Kg	3.0	02/13/24	02/14/24
Vanadium	ND		mg/Kg	1.0	02/13/24	02/14/24
Zinc	ND		mg/Kg	5.0	02/13/24	02/14/24

Type: Lab Control Sample	Lab ID: QC1127913	Batch: 332940
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1127913 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	95.38	100.0	mg/Kg	95%		80-120
Arsenic	93.92	100.0	mg/Kg	94%		80-120
Barium	105.0	100.0	mg/Kg	105%		80-120
Beryllium	102.6	100.0	mg/Kg	103%		80-120
Cadmium	102.8	100.0	mg/Kg	103%		80-120
Chromium	98.84	100.0	mg/Kg	99%		80-120
Cobalt	105.5	100.0	mg/Kg	106%		80-120
Copper	97.35	100.0	mg/Kg	97%		80-120
Lead	103.7	100.0	mg/Kg	104%		80-120
Molybdenum	95.17	100.0	mg/Kg	95%		80-120
Nickel	105.6	100.0	mg/Kg	106%		80-120
Selenium	90.70	100.0	mg/Kg	91%		80-120
Silver	48.35	50.00	mg/Kg	97%		80-120
Thallium	101.9	100.0	mg/Kg	102%		80-120
Vanadium	97.61	100.0	mg/Kg	98%		80-120
Zinc	106.6	100.0	mg/Kg	107%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1127914	Batch:	332940
Matrix (Source ID):	Soil (501289-041)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1127914 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	48.51	ND	95.24	mg/Kg	51%	*	75-125	0.95
Arsenic	88.16	1.082	95.24	mg/Kg	91%		75-125	0.95
Barium	114.0	16.38	95.24	mg/Kg	102%		75-125	0.95
Beryllium	96.83	0.1841	95.24	mg/Kg	101%		75-125	0.95
Cadmium	95.22	0.04605	95.24	mg/Kg	100%		75-125	0.95
Chromium	103.9	10.36	95.24	mg/Kg	98%		75-125	0.95
Cobalt	97.99	1.246	95.24	mg/Kg	102%		75-125	0.95
Copper	96.16	1.953	95.24	mg/Kg	99%		75-125	0.95
Lead	98.27	2.575	95.24	mg/Kg	100%		75-125	0.95
Molybdenum	87.51	1.525	95.24	mg/Kg	90%		75-125	0.95
Nickel	100.6	3.617	95.24	mg/Kg	102%		75-125	0.95
Selenium	85.54	ND	95.24	mg/Kg	90%		75-125	0.95
Silver	44.90	ND	47.62	mg/Kg	94%		75-125	0.95
Thallium	94.28	ND	95.24	mg/Kg	99%		75-125	0.95
Vanadium	106.1	13.81	95.24	mg/Kg	97%		75-125	0.95
Zinc	110.6	11.86	95.24	mg/Kg	104%		75-125	0.95

Type:	Matrix Spike Duplicate	Lab ID:	QC1127915	Batch:	332940
Matrix (Source ID):	Soil (501289-041)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1127915 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	52.44	ND	95.24	mg/Kg	55%	*	75-125	8	41	0.95
Arsenic	94.05	1.082	95.24	mg/Kg	98%		75-125	6	35	0.95
Barium	121.8	16.38	95.24	mg/Kg	111%		75-125	7	20	0.95
Beryllium	103.7	0.1841	95.24	mg/Kg	109%		75-125	7	20	0.95
Cadmium	101.4	0.04605	95.24	mg/Kg	106%		75-125	6	20	0.95
Chromium	111.2	10.36	95.24	mg/Kg	106%		75-125	7	20	0.95
Cobalt	104.3	1.246	95.24	mg/Kg	108%		75-125	6	20	0.95
Copper	103.3	1.953	95.24	mg/Kg	106%		75-125	7	20	0.95
Lead	105.0	2.575	95.24	mg/Kg	108%		75-125	7	20	0.95
Molybdenum	94.07	1.525	95.24	mg/Kg	97%		75-125	7	20	0.95
Nickel	108.0	3.617	95.24	mg/Kg	110%		75-125	7	20	0.95
Selenium	91.08	ND	95.24	mg/Kg	96%		75-125	6	20	0.95
Silver	48.05	ND	47.62	mg/Kg	101%		75-125	7	20	0.95
Thallium	100.8	ND	95.24	mg/Kg	106%		75-125	7	20	0.95
Vanadium	114.1	13.81	95.24	mg/Kg	105%		75-125	7	20	0.95
Zinc	117.0	11.86	95.24	mg/Kg	110%		75-125	6	20	0.95

ENTHALPY ANALYTICAL

Batch QC

Type:	Post Digest Spike	Lab ID:	QC1127916	Batch:	332940
Matrix (Source ID):	Soil (501289-041)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1127916 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	88.56	ND	95.24	mg/Kg	93%		75-125	0.95
Arsenic	88.09	1.082	95.24	mg/Kg	91%		75-125	0.95
Barium	111.0	16.38	95.24	mg/Kg	99%		75-125	0.95
Beryllium	94.52	0.1841	95.24	mg/Kg	99%		75-125	0.95
Cadmium	93.46	0.04605	95.24	mg/Kg	98%		75-125	0.95
Chromium	99.66	10.36	95.24	mg/Kg	94%		75-125	0.95
Cobalt	96.54	1.246	95.24	mg/Kg	100%		75-125	0.95
Copper	93.94	1.953	95.24	mg/Kg	97%		75-125	0.95
Lead	97.06	2.575	95.24	mg/Kg	99%		75-125	0.95
Molybdenum	90.55	1.525	95.24	mg/Kg	93%		75-125	0.95
Nickel	98.49	3.617	95.24	mg/Kg	100%		75-125	0.95
Selenium	85.92	ND	95.24	mg/Kg	90%		75-125	0.95
Silver	44.82	ND	47.62	mg/Kg	94%		75-125	0.95
Thallium	93.14	ND	95.24	mg/Kg	98%		75-125	0.95
Vanadium	102.8	13.81	95.24	mg/Kg	93%		75-125	0.95
Zinc	107.9	11.86	95.24	mg/Kg	101%		75-125	0.95

Type:	Blank	Lab ID:	QC1127989	Batch:	332966
Matrix:	Soil	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1127989 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	02/13/24	02/14/24
Arsenic	ND		mg/Kg	1.0	02/13/24	02/14/24
Barium	ND		mg/Kg	1.0	02/13/24	02/14/24
Beryllium	ND		mg/Kg	0.50	02/13/24	02/14/24
Cadmium	ND		mg/Kg	0.50	02/13/24	02/14/24
Chromium	ND		mg/Kg	1.0	02/13/24	02/14/24
Cobalt	ND		mg/Kg	0.50	02/13/24	02/14/24
Copper	ND		mg/Kg	1.0	02/13/24	02/14/24
Lead	ND		mg/Kg	1.0	02/13/24	02/14/24
Molybdenum	ND		mg/Kg	1.0	02/13/24	02/14/24
Nickel	ND		mg/Kg	1.0	02/13/24	02/14/24
Selenium	ND		mg/Kg	3.0	02/13/24	02/14/24
Silver	ND		mg/Kg	0.50	02/13/24	02/14/24
Thallium	ND		mg/Kg	3.0	02/13/24	02/14/24
Vanadium	ND		mg/Kg	1.0	02/13/24	02/14/24
Zinc	ND		mg/Kg	5.0	02/13/24	02/14/24

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1127990	Batch: 332966
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1127990 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	94.86	100.0	mg/Kg	95%		80-120
Arsenic	93.37	100.0	mg/Kg	93%		80-120
Barium	103.7	100.0	mg/Kg	104%		80-120
Beryllium	101.2	100.0	mg/Kg	101%		80-120
Cadmium	101.9	100.0	mg/Kg	102%		80-120
Chromium	97.80	100.0	mg/Kg	98%		80-120
Cobalt	103.9	100.0	mg/Kg	104%		80-120
Copper	95.97	100.0	mg/Kg	96%		80-120
Lead	103.5	100.0	mg/Kg	104%		80-120
Molybdenum	94.74	100.0	mg/Kg	95%		80-120
Nickel	104.1	100.0	mg/Kg	104%		80-120
Selenium	89.59	100.0	mg/Kg	90%		80-120
Silver	47.16	50.00	mg/Kg	94%		80-120
Thallium	101.5	100.0	mg/Kg	102%		80-120
Vanadium	96.56	100.0	mg/Kg	97%		80-120
Zinc	104.6	100.0	mg/Kg	105%		80-120

Type: Matrix Spike	Lab ID: QC1127991	Batch: 332966
Matrix (Source ID): Soil (502157-002)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1127991 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	37.17	ND	96.15	mg/Kg	39%	*	75-125	0.96
Arsenic	94.04	4.578	96.15	mg/Kg	93%		75-125	0.96
Barium	217.0	106.1	96.15	mg/Kg	115%		75-125	0.96
Beryllium	97.03	0.3773	96.15	mg/Kg	101%		75-125	0.96
Cadmium	93.55	0.5602	96.15	mg/Kg	97%		75-125	0.96
Chromium	115.3	20.24	96.15	mg/Kg	99%		75-125	0.96
Cobalt	101.1	5.672	96.15	mg/Kg	99%		75-125	0.96
Copper	116.1	20.01	96.15	mg/Kg	100%		75-125	0.96
Lead	104.4	16.22	96.15	mg/Kg	92%		75-125	0.96
Molybdenum	89.45	1.924	96.15	mg/Kg	91%		75-125	0.96
Nickel	110.2	14.13	96.15	mg/Kg	100%		75-125	0.96
Selenium	86.59	0.6607	96.15	mg/Kg	89%		75-125	0.96
Silver	46.02	ND	48.08	mg/Kg	96%		75-125	0.96
Thallium	92.44	ND	96.15	mg/Kg	96%		75-125	0.96
Vanadium	145.9	41.49	96.15	mg/Kg	109%		75-125	0.96
Zinc	153.0	58.35	96.15	mg/Kg	98%		75-125	0.96

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1127992	Batch:	332966
Matrix (Source ID):	Soil (502157-002)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1127992 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	39.28	ND	98.04	mg/Kg	40%	*	75-125	4	41	0.98
Arsenic	98.87	4.578	98.04	mg/Kg	96%		75-125	3	35	0.98
Barium	229.0	106.1	98.04	mg/Kg	125%		75-125	4	20	0.98
Beryllium	103.6	0.3773	98.04	mg/Kg	105%		75-125	5	20	0.98
Cadmium	100.8	0.5602	98.04	mg/Kg	102%		75-125	6	20	0.98
Chromium	126.0	20.24	98.04	mg/Kg	108%		75-125	7	20	0.98
Cobalt	108.0	5.672	98.04	mg/Kg	104%		75-125	5	20	0.98
Copper	122.2	20.01	98.04	mg/Kg	104%		75-125	3	20	0.98
Lead	112.1	16.22	98.04	mg/Kg	98%		75-125	5	20	0.98
Molybdenum	95.66	1.924	98.04	mg/Kg	96%		75-125	5	20	0.98
Nickel	121.3	14.13	98.04	mg/Kg	109%		75-125	8	20	0.98
Selenium	91.63	0.6607	98.04	mg/Kg	93%		75-125	4	20	0.98
Silver	49.08	ND	49.02	mg/Kg	100%		75-125	4	20	0.98
Thallium	99.07	ND	98.04	mg/Kg	101%		75-125	5	20	0.98
Vanadium	160.8	41.49	98.04	mg/Kg	122%		75-125	8	20	0.98
Zinc	164.9	58.35	98.04	mg/Kg	109%		75-125	6	20	0.98

Type:	Post Digest Spike	Lab ID:	QC1127993	Batch:	332966
Matrix (Source ID):	Soil (502157-002)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1127993 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	98.76	ND	97.09	mg/Kg	102%		75-125	0.97
Arsenic	98.85	4.578	97.09	mg/Kg	97%		75-125	0.97
Barium	202.1	106.1	97.09	mg/Kg	99%		75-125	0.97
Beryllium	100.9	0.3773	97.09	mg/Kg	104%		75-125	0.97
Cadmium	95.86	0.5602	97.09	mg/Kg	98%		75-125	0.97
Chromium	113.8	20.24	97.09	mg/Kg	96%		75-125	0.97
Cobalt	102.2	5.672	97.09	mg/Kg	99%		75-125	0.97
Copper	121.1	20.01	97.09	mg/Kg	104%		75-125	0.97
Lead	112.1	16.22	97.09	mg/Kg	99%		75-125	0.97
Molybdenum	98.18	1.924	97.09	mg/Kg	99%		75-125	0.97
Nickel	109.5	14.13	97.09	mg/Kg	98%		75-125	0.97
Selenium	90.52	0.6607	97.09	mg/Kg	93%		75-125	0.97
Silver	49.04	ND	48.54	mg/Kg	101%		75-125	0.97
Thallium	95.77	ND	97.09	mg/Kg	99%		75-125	0.97
Vanadium	136.9	41.49	97.09	mg/Kg	98%		75-125	0.97
Zinc	152.6	58.35	97.09	mg/Kg	97%		75-125	0.97

Type:	Blank	Lab ID:	QC1131399	Batch:	333890
Matrix:	TCLP Leachate	Method:	EPA 6020	Prep Method:	EPA 3015A

QC1131399 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Cadmium	ND		mg/L	0.25	02/24/24	02/26/24

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Batch QC

Type: Lab Control Sample	Lab ID: QC1131400	Batch: 333890
Matrix: TCLP Leachate	Method: EPA 6020	Prep Method: EPA 3015A

QC1131400 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cadmium	0.9883	1.000	mg/L	99%		80-120

Type: Blank	Lab ID: QC1131401	Batch: 333890
Matrix: TCLP Leachate	Method: EPA 6020	Prep Method: EPA 3015A

QC1131401 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Cadmium	ND		mg/L	0.25	02/24/24	02/26/24

Type: Matrix Spike	Lab ID: QC1131402	Batch: 333890
Matrix (Source ID): TCLP Leachate (501289-032)	Method: EPA 6020	Prep Method: EPA 3015A

QC1131402 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	1.160	0.1651	1.000	mg/L	99%		75-125	10

Type: Matrix Spike Duplicate	Lab ID: QC1131403	Batch: 333890
Matrix (Source ID): TCLP Leachate (501289-032)	Method: EPA 6020	Prep Method: EPA 3015A

QC1131403 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	1.194	0.1651	1.000	mg/L	103%		75-125	3	21	10

Type: Blank	Lab ID: QC1131369	Batch: 333883
Matrix: WET Leachate	Method: EPA 6020	Prep Method: METHOD

QC1131369 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Cadmium	ND		mg/L	0.25	02/23/24	02/26/24

Type: Lab Control Sample	Lab ID: QC1131370	Batch: 333883
Matrix: WET Leachate	Method: EPA 6020	Prep Method: METHOD

QC1131370 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cadmium	0.9445	1.000	mg/L	94%		80-120

Type: Lab Control Sample Duplicate	Lab ID: QC1131371	Batch: 333883
Matrix: WET Leachate	Method: EPA 6020	Prep Method: METHOD

QC1131371 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Cadmium	0.9316	1.000	mg/L	93%		80-120	1	20

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1130056** **Batch: 333593**
Matrix: Soil **Method: EPA 6020** **Prep Method: EPA 3050B**

QC1130056 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Cadmium	ND		mg/Kg	0.50	02/13/24	02/21/24

Type: Lab Control Sample **Lab ID: QC1130057** **Batch: 333593**
Matrix: Soil **Method: EPA 6020** **Prep Method: EPA 3050B**

QC1130057 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cadmium	103.5	100.0	mg/Kg	103%		80-120

Type: Matrix Spike **Lab ID: QC1130058** **Batch: 333593**
Matrix (Source ID): Soil (501289-041) **Method: EPA 6020** **Prep Method: EPA 3050B**

QC1130058 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	99.63	ND	95.24	mg/Kg	105%		75-125	0.95

Type: Matrix Spike Duplicate **Lab ID: QC1130059** **Batch: 333593**
Matrix (Source ID): Soil (501289-041) **Method: EPA 6020** **Prep Method: EPA 3050B**

QC1130059 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	101.0	ND	95.24	mg/Kg	106%		75-125	1	20	0.95

Type: Post Digest Spike **Lab ID: QC1130069** **Batch: 333593**
Matrix (Source ID): Soil (501289-041) **Method: EPA 6020** **Prep Method: EPA 3050B**

QC1130069 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	101.5	ND	95.24	mg/Kg	107%		75-125	0.95

Type: Blank **Lab ID: QC1127893** **Batch: 332929**
Matrix: Soil **Method: EPA 7471A** **Prep Method: METHOD**

QC1127893 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	02/13/24	02/14/24

Type: Lab Control Sample **Lab ID: QC1127894** **Batch: 332929**
Matrix: Soil **Method: EPA 7471A** **Prep Method: METHOD**

QC1127894 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.7618	0.8333	mg/Kg	91%		80-120

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Batch QC

Type:	Matrix Spike	Lab ID:	QC1127895	Batch:	332929
Matrix (Source ID):	Soil (501670-005)	Method:	EPA 7471A	Prep Method:	METHOD

QC1127895 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9017	0.05789	0.8772	mg/Kg	96%		75-125	1.1

Type:	Matrix Spike Duplicate	Lab ID:	QC1127896	Batch:	332929
Matrix (Source ID):	Soil (501670-005)	Method:	EPA 7471A	Prep Method:	METHOD

QC1127896 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.9863	0.05789	0.9615	mg/Kg	97%		75-125	0	20	1.2

Type:	Blank	Lab ID:	QC1128859	Batch:	333230
Matrix:	Soil	Method:	EPA 7471A	Prep Method:	METHOD

QC1128859 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	02/16/24	02/16/24

Type:	Lab Control Sample	Lab ID:	QC1128860	Batch:	333230
Matrix:	Soil	Method:	EPA 7471A	Prep Method:	METHOD

QC1128860 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.7986	0.8333	mg/Kg	96%		80-120

Type:	Matrix Spike	Lab ID:	QC1128861	Batch:	333230
Matrix (Source ID):	Soil (501289-062)	Method:	EPA 7471A	Prep Method:	METHOD

QC1128861 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9359	0.04104	0.9615	mg/Kg	93%		75-125	1.2

Type:	Matrix Spike Duplicate	Lab ID:	QC1128862	Batch:	333230
Matrix (Source ID):	Soil (501289-062)	Method:	EPA 7471A	Prep Method:	METHOD

QC1128862 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.9533	0.04104	0.9434	mg/Kg	97%		75-125	4	20	1.1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1125462	Batch: 332139
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580M

QC1125462 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C8-C10	ND		mg/Kg	10	02/03/24	02/07/24
DRO C10-C28	ND		mg/Kg	10	02/03/24	02/07/24
ORO C28-C44	ND		mg/Kg	20	02/03/24	02/07/24
Surrogates				**Limits**		
n-Triacontane	113%		%REC	70-130	02/03/24	02/07/24

Type: Lab Control Sample	Lab ID: QC1125463	Batch: 332139
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580M

QC1125463 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	232.8	249.5	mg/Kg	93%		76-122
Surrogates						
n-Triacontane	9.814	9.980	mg/Kg	98%		70-130

Type: Matrix Spike	Lab ID: QC1125464	Batch: 332139
Matrix (Source ID): Soil (501289-012)	Method: EPA 8015M	Prep Method: EPA 3580M

QC1125464 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	267.9	5.102	249.5	mg/Kg	105%		62-126	1
Surrogates								
n-Triacontane	11.21		9.980	mg/Kg	112%		70-130	1

Type: Matrix Spike Duplicate	Lab ID: QC1125465	Batch: 332139
Matrix (Source ID): Soil (501289-012)	Method: EPA 8015M	Prep Method: EPA 3580M

QC1125465 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	267.0	5.102	248.3	mg/Kg	106%		62-126	0	35	0.99
Surrogates										
n-Triacontane	11.26		9.930	mg/Kg	113%		70-130			0.99

Type: Blank	Lab ID: QC1125466	Batch: 332140
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580M

QC1125466 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C8-C10	ND		mg/Kg	9.9	02/03/24	02/06/24
DRO C10-C28	ND		mg/Kg	9.9	02/03/24	02/06/24
ORO C28-C44	ND		mg/Kg	20	02/03/24	02/06/24
Surrogates				**Limits**		
n-Triacontane	96%		%REC	70-130	02/03/24	02/06/24

ENTHALPY ANALYTICAL

Batch QC

Type:	Lab Control Sample	Lab ID:	QC1125467	Batch:	332140
Matrix:	Soil	Method:	EPA 8015M	Prep Method:	EPA 3580M

QC1125467 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	272.9	249.3	mg/Kg	109%		76-122
Surrogates						
n-Triacontane	9.713	9.970	mg/Kg	97%		70-130

Type:	Matrix Spike	Lab ID:	QC1125468	Batch:	332140
Matrix (Source ID):	Soil (501289-034)	Method:	EPA 8015M	Prep Method:	EPA 3580M

QC1125468 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	288.7	8.208	247.6	mg/Kg	113%		62-126	0.99
Surrogates								
n-Triacontane	9.909		9.906	mg/Kg	100%		70-130	0.99

Type:	Matrix Spike Duplicate	Lab ID:	QC1125469	Batch:	332140
Matrix (Source ID):	Soil (501289-034)	Method:	EPA 8015M	Prep Method:	EPA 3580M

QC1125469 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	291.0	8.208	249.1	mg/Kg	114%		62-126	0	35	1
Surrogates										
n-Triacontane	9.775		9.965	mg/Kg	98%		70-130			1

Type:	Blank	Lab ID:	QC1125470	Batch:	332141
Matrix:	Soil	Method:	EPA 8015M	Prep Method:	EPA 3580M

QC1125470 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C8-C10	ND		mg/Kg	9.9	02/07/24	02/07/24
DRO C10-C28	ND		mg/Kg	9.9	02/07/24	02/07/24
ORO C28-C44	ND		mg/Kg	20	02/07/24	02/07/24
Surrogates				**Limits**		
n-Triacontane	119%		%REC	70-130	02/07/24	02/07/24

Type:	Lab Control Sample	Lab ID:	QC1125471	Batch:	332141
Matrix:	Soil	Method:	EPA 8015M	Prep Method:	EPA 3580M

QC1125471 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	271.2	248.4	mg/Kg	109%		76-122
Surrogates						
n-Triacontane	12.36	9.935	mg/Kg	124%		70-130

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Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1125472**	**Batch:**	**332141**
Matrix (Source ID):	**Soil (501289-054)**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580M**

QC1125472 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	296.0	ND	248.4	mg/Kg	119%		62-126	0.99
Surrogates								
n-Triacontane	12.91		9.935	mg/Kg	130%		70-130	0.99

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1125473**	**Batch:**	**332141**
Matrix (Source ID):	**Soil (501289-054)**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580M**

QC1125473 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	284.4	ND	248.6	mg/Kg	114%		62-126	4	35	0.99
Surrogates										
n-Triacontane	12.66		9.945	mg/Kg	127%		70-130			0.99

Type:	**Blank**	**Lab ID:**	**QC1126081**	**Batch:**	**332332**
Matrix:	**Soil**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580M**

QC1126081 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C8-C10	ND		mg/Kg	10	02/06/24	02/08/24
DRO C10-C28	ND		mg/Kg	10	02/06/24	02/08/24
ORO C28-C44	ND		mg/Kg	20	02/06/24	02/08/24
Surrogates				**Limits**		
n-Triacontane	130%		%REC	70-130	02/06/24	02/08/24

Type:	**Lab Control Sample**	**Lab ID:**	**QC1126082**	**Batch:**	**332332**
Matrix:	**Soil**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580M**

QC1126082 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	269.4	248.8	mg/Kg	108%		76-122
Surrogates						
n-Triacontane	12.49	9.950	mg/Kg	126%		70-130

Type:	**Matrix Spike**	**Lab ID:**	**QC1126084**	**Batch:**	**332332**
Matrix (Source ID):	**Soil (501294-001)**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580M**

QC1126084 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	275.7	ND	248.1	mg/Kg	111%		62-126	0.99
Surrogates								
n-Triacontane	12.35		9.926	mg/Kg	124%		70-130	0.99

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Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1126085	Batch:	332332
Matrix (Source ID):	Soil (501294-001)	Method:	EPA 8015M	Prep Method:	EPA 3580M

QC1126085 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	284.3	ND	248.4	mg/Kg	114%		62-126	3	35	0.99
Surrogates										
n-Triacontane	12.74		9.935	mg/Kg	128%		70-130			0.99

Type:	Blank	Lab ID:	QC1126642	Batch:	332511
Matrix:	Soil	Method:	EPA 8082	Prep Method:	EPA 3546

QC1126642 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Aroclor-1016	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1221	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1232	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1242	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1248	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1254	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1260	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1262	ND		ug/Kg	50	02/08/24	02/08/24
Aroclor-1268	ND		ug/Kg	50	02/08/24	02/08/24
Surrogates				**Limits**		
Decachlorobiphenyl (PCB)	83%		%REC	19-121	02/08/24	02/08/24

Type:	Lab Control Sample	Lab ID:	QC1126662	Batch:	332511
Matrix:	Soil	Method:	EPA 8082	Prep Method:	EPA 3546

QC1126662 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	419.3	500.0	ug/Kg	84%		14-150
Aroclor-1260	409.6	500.0	ug/Kg	82%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	40.85	50.00	ug/Kg	82%		19-121

Type:	Matrix Spike	Lab ID:	QC1126663	Batch:	332511
Matrix (Source ID):	Soil (501248-002)	Method:	EPA 8082	Prep Method:	EPA 3546

QC1126663 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	338.5	ND	495.0	ug/Kg	68%		42-127	0.99
Aroclor-1260	328.3	ND	495.0	ug/Kg	66%		38-130	0.99
Surrogates								
Decachlorobiphenyl (PCB)	30.79		49.50	ug/Kg	62%		19-121	0.99

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Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1126664**	**Batch:**	**332511**
Matrix (Source ID):	**Soil (501248-002)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1126664 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	336.1	ND	505.1	ug/Kg	67%		42-127	3	30	1
Aroclor-1260	327.8	ND	505.1	ug/Kg	65%		38-130	2	30	1
Surrogates										
Decachlorobiphenyl (PCB)	31.22		50.51	ug/Kg	62%		19-121			1

Type:	**Lab Control Sample**	**Lab ID:**	**QC1125561**	**Batch:**	**332183**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1125561 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	58.86	50.00	ug/Kg	118%		70-131
MTBE	48.72	50.00	ug/Kg	97%		69-130
Benzene	51.40	50.00	ug/Kg	103%		70-130
Trichloroethene	52.49	50.00	ug/Kg	105%		70-130
Toluene	54.26	50.00	ug/Kg	109%		70-130
Chlorobenzene	55.50	50.00	ug/Kg	111%		70-130
Surrogates						
Dibromofluoromethane	50.84	50.00	ug/Kg	102%		70-130
1,2-Dichloroethane-d4	55.04	50.00	ug/Kg	110%		70-145
Toluene-d8	50.89	50.00	ug/Kg	102%		70-145
Bromofluorobenzene	52.44	50.00	ug/Kg	105%		70-145

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1125562**	**Batch:**	**332183**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1125562 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	60.63	50.00	ug/Kg	121%		70-131	3	33
MTBE	50.36	50.00	ug/Kg	101%		69-130	3	30
Benzene	52.14	50.00	ug/Kg	104%		70-130	1	30
Trichloroethene	54.88	50.00	ug/Kg	110%		70-130	4	30
Toluene	54.43	50.00	ug/Kg	109%		70-130	0	30
Chlorobenzene	56.60	50.00	ug/Kg	113%		70-130	2	30
Surrogates								
Dibromofluoromethane	49.39	50.00	ug/Kg	99%		70-130		
1,2-Dichloroethane-d4	58.05	50.00	ug/Kg	116%		70-145		
Toluene-d8	51.54	50.00	ug/Kg	103%		70-145		
Bromofluorobenzene	50.85	50.00	ug/Kg	102%		70-145		

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Batch QC

Type: Blank	**Lab ID:** QC1125565	**Batch:** 332183	
Matrix: Soil	**Method:** EPA 8260B	**Prep Method:** EPA 5035	

QC1125565 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	250	02/05/24	02/05/24
cis-1,4-Dichloro-2-butene	ND		ug/Kg	250	02/05/24	02/05/24
trans-1,4-Dichloro-2-butene	ND		ug/Kg	250	02/05/24	02/05/24
Freon 12	ND		ug/Kg	250	02/05/24	02/05/24
Chloromethane	ND		ug/Kg	250	02/05/24	02/05/24
Vinyl Chloride	ND		ug/Kg	250	02/05/24	02/05/24
Bromomethane	ND		ug/Kg	250	02/05/24	02/05/24
Chloroethane	ND		ug/Kg	250	02/05/24	02/05/24
Trichlorofluoromethane	ND		ug/Kg	250	02/05/24	02/05/24
Acetone	ND		ug/Kg	5,000	02/05/24	02/05/24
Freon 113	ND		ug/Kg	250	02/05/24	02/05/24
1,1-Dichloroethene	ND		ug/Kg	250	02/05/24	02/05/24
Methylene Chloride	ND		ug/Kg	400	02/05/24	02/05/24
MTBE	ND		ug/Kg	250	02/05/24	02/05/24
trans-1,2-Dichloroethene	ND		ug/Kg	250	02/05/24	02/05/24
1,1-Dichloroethane	ND		ug/Kg	250	02/05/24	02/05/24
2-Butanone	ND		ug/Kg	5,000	02/05/24	02/05/24
cis-1,2-Dichloroethene	ND		ug/Kg	250	02/05/24	02/05/24
2,2-Dichloropropane	ND		ug/Kg	250	02/05/24	02/05/24
Chloroform	ND		ug/Kg	250	02/05/24	02/05/24
Bromochloromethane	ND		ug/Kg	250	02/05/24	02/05/24
1,1,1-Trichloroethane	ND		ug/Kg	250	02/05/24	02/05/24
1,1-Dichloropropene	ND		ug/Kg	250	02/05/24	02/05/24
Carbon Tetrachloride	ND		ug/Kg	250	02/05/24	02/05/24
1,2-Dichloroethane	ND		ug/Kg	250	02/05/24	02/05/24
Benzene	ND		ug/Kg	250	02/05/24	02/05/24
Trichloroethene	ND		ug/Kg	250	02/05/24	02/05/24
1,2-Dichloropropane	ND		ug/Kg	250	02/05/24	02/05/24
Bromodichloromethane	ND		ug/Kg	250	02/05/24	02/05/24
Dibromomethane	ND		ug/Kg	250	02/05/24	02/05/24
4-Methyl-2-Pentanone	ND		ug/Kg	250	02/05/24	02/05/24
cis-1,3-Dichloropropene	ND		ug/Kg	250	02/05/24	02/05/24
Toluene	ND		ug/Kg	250	02/05/24	02/05/24
trans-1,3-Dichloropropene	ND		ug/Kg	250	02/05/24	02/05/24
1,1,2-Trichloroethane	ND		ug/Kg	250	02/05/24	02/05/24
1,3-Dichloropropane	ND		ug/Kg	250	02/05/24	02/05/24
Tetrachloroethene	ND		ug/Kg	250	02/05/24	02/05/24
Dibromochloromethane	ND		ug/Kg	250	02/05/24	02/05/24
1,2-Dibromoethane	ND		ug/Kg	250	02/05/24	02/05/24
Chlorobenzene	ND		ug/Kg	250	02/05/24	02/05/24
1,1,1,2-Tetrachloroethane	ND		ug/Kg	250	02/05/24	02/05/24
Ethylbenzene	ND		ug/Kg	250	02/05/24	02/05/24
m,p-Xylenes	ND		ug/Kg	500	02/05/24	02/05/24
o-Xylene	ND		ug/Kg	250	02/05/24	02/05/24
Styrene	ND		ug/Kg	250	02/05/24	02/05/24
Bromoform	ND		ug/Kg	250	02/05/24	02/05/24
Isopropylbenzene	ND		ug/Kg	250	02/05/24	02/05/24

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Batch QC

QC1125565 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ug/Kg	250	02/05/24	02/05/24
1,2,3-Trichloropropane	ND		ug/Kg	250	02/05/24	02/05/24
Propylbenzene	ND		ug/Kg	250	02/05/24	02/05/24
Bromobenzene	ND		ug/Kg	250	02/05/24	02/05/24
1,3,5-Trimethylbenzene	ND		ug/Kg	250	02/05/24	02/05/24
2-Chlorotoluene	ND		ug/Kg	250	02/05/24	02/05/24
4-Chlorotoluene	ND		ug/Kg	250	02/05/24	02/05/24
tert-Butylbenzene	ND		ug/Kg	250	02/05/24	02/05/24
1,2,4-Trimethylbenzene	ND		ug/Kg	250	02/05/24	02/05/24
sec-Butylbenzene	ND		ug/Kg	250	02/05/24	02/05/24
para-Isopropyl Toluene	ND		ug/Kg	250	02/05/24	02/05/24
1,3-Dichlorobenzene	ND		ug/Kg	250	02/05/24	02/05/24
1,4-Dichlorobenzene	ND		ug/Kg	250	02/05/24	02/05/24
n-Butylbenzene	ND		ug/Kg	250	02/05/24	02/05/24
1,2-Dichlorobenzene	ND		ug/Kg	250	02/05/24	02/05/24
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	250	02/05/24	02/05/24
1,2,4-Trichlorobenzene	ND		ug/Kg	250	02/05/24	02/05/24
Hexachlorobutadiene	ND		ug/Kg	250	02/05/24	02/05/24
Naphthalene	ND		ug/Kg	250	02/05/24	02/05/24
1,2,3-Trichlorobenzene	ND		ug/Kg	250	02/05/24	02/05/24
Xylene (total)	ND		ug/Kg	250	02/05/24	02/05/24
Surrogates				**Limits**		
Dibromofluoromethane	94%		%REC	70-130	02/05/24	02/05/24
1,2-Dichloroethane-d4	115%		%REC	70-145	02/05/24	02/05/24
Toluene-d8	98%		%REC	70-145	02/05/24	02/05/24
Bromofluorobenzene	101%		%REC	70-145	02/05/24	02/05/24

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1125566**	**Batch:**	**332183**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1125566 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/05/24	02/05/24
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/05/24	02/05/24
Freon 12	ND		ug/Kg	5.0	02/05/24	02/05/24
Chloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Vinyl Chloride	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromomethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Chloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Trichlorofluoromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Acetone	ND		ug/Kg	100	02/05/24	02/05/24
Freon 113	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1-Dichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
Methylene Chloride	ND		ug/Kg	5.0	02/05/24	02/05/24
MTBE	ND		ug/Kg	5.0	02/05/24	02/05/24
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1-Dichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
2-Butanone	ND		ug/Kg	100	02/05/24	02/05/24
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
2,2-Dichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Chloroform	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromochloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1,1-Trichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1-Dichloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
Carbon Tetrachloride	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Benzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Trichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromodichloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Dibromomethane	ND		ug/Kg	5.0	02/05/24	02/05/24
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	02/05/24	02/05/24
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
Toluene	ND		ug/Kg	5.0	02/05/24	02/05/24
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1,2-Trichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,3-Dichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Tetrachloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
Dibromochloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dibromoethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Chlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Ethylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
m,p-Xylenes	ND		ug/Kg	10	02/05/24	02/05/24
o-Xylene	ND		ug/Kg	5.0	02/05/24	02/05/24
Styrene	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromoform	ND		ug/Kg	5.0	02/05/24	02/05/24
Isopropylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24

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Batch QC

QC1125566 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,3-Trichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Propylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
2-Chlorotoluene	ND		ug/Kg	5.0	02/05/24	02/05/24
4-Chlorotoluene	ND		ug/Kg	5.0	02/05/24	02/05/24
tert-Butylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
sec-Butylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
para-Isopropyl Toluene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,3-Dichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,4-Dichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
n-Butylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Hexachlorobutadiene	ND		ug/Kg	5.0	02/05/24	02/05/24
Naphthalene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Xylene (total)	ND		ug/Kg	5.0	02/05/24	02/05/24
Surrogates				**Limits**		
Dibromofluoromethane	97%		%REC	70-130	02/05/24	02/05/24
1,2-Dichloroethane-d4	102%		%REC	70-145	02/05/24	02/05/24
Toluene-d8	102%		%REC	70-145	02/05/24	02/05/24
Bromofluorobenzene	104%		%REC	70-145	02/05/24	02/05/24

Type: Lab Control Sample | **Lab ID:** QC1125913 | **Batch:** 332280
Matrix: Soil | **Method:** EPA 8260B | **Prep Method:** EPA 5035

QC1125913 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	56.73	50.00	ug/Kg	113%		70-131
MTBE	47.57	50.00	ug/Kg	95%		69-130
Benzene	49.36	50.00	ug/Kg	99%		70-130
Trichloroethene	50.61	50.00	ug/Kg	101%		70-130
Toluene	51.92	50.00	ug/Kg	104%		70-130
Chlorobenzene	54.12	50.00	ug/Kg	108%		70-130
Surrogates						
Dibromofluoromethane	50.64	50.00	ug/Kg	101%		70-130
1,2-Dichloroethane-d4	55.69	50.00	ug/Kg	111%		70-145
Toluene-d8	51.30	50.00	ug/Kg	103%		70-145
Bromofluorobenzene	50.40	50.00	ug/Kg	101%		70-145

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1125914**	**Batch:**	**332280**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1125914 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	59.51	50.00	ug/Kg	119%		70-131	5	33
MTBE	49.09	50.00	ug/Kg	98%		69-130	3	30
Benzene	48.83	50.00	ug/Kg	98%		70-130	1	30
Trichloroethene	51.27	50.00	ug/Kg	103%		70-130	1	30
Toluene	53.37	50.00	ug/Kg	107%		70-130	3	30
Chlorobenzene	54.15	50.00	ug/Kg	108%		70-130	0	30
Surrogates								
Dibromofluoromethane	49.41	50.00	ug/Kg	99%		70-130		
1,2-Dichloroethane-d4	51.84	50.00	ug/Kg	104%		70-145		
Toluene-d8	50.61	50.00	ug/Kg	101%		70-145		
Bromofluorobenzene	49.53	50.00	ug/Kg	99%		70-145		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1125917	**Batch:** 332280	
Matrix: Soil	**Method:** EPA 8260B	**Prep Method:** EPA 5035	

QC1125917 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/05/24	02/05/24
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/05/24	02/05/24
Freon 12	ND		ug/Kg	5.0	02/05/24	02/05/24
Chloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Vinyl Chloride	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromomethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Chloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Trichlorofluoromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Acetone	ND		ug/Kg	100	02/05/24	02/05/24
Freon 113	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1-Dichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
Methylene Chloride	ND		ug/Kg	5.0	02/05/24	02/05/24
MTBE	ND		ug/Kg	5.0	02/05/24	02/05/24
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1-Dichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
2-Butanone	ND		ug/Kg	100	02/05/24	02/05/24
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
2,2-Dichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Chloroform	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromochloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1,1-Trichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1-Dichloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
Carbon Tetrachloride	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Benzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Trichloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromodichloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Dibromomethane	ND		ug/Kg	5.0	02/05/24	02/05/24
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	02/05/24	02/05/24
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
Toluene	ND		ug/Kg	5.0	02/05/24	02/05/24
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1,2-Trichloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,3-Dichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Tetrachloroethene	ND		ug/Kg	5.0	02/05/24	02/05/24
Dibromochloromethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dibromoethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Chlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
Ethylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
m,p-Xylenes	ND		ug/Kg	10	02/05/24	02/05/24
o-Xylene	ND		ug/Kg	5.0	02/05/24	02/05/24
Styrene	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromoform	ND		ug/Kg	5.0	02/05/24	02/05/24
Isopropylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24

Batch QC

QC1125917 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,3-Trichloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
Propylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Bromobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
2-Chlorotoluene	ND		ug/Kg	5.0	02/05/24	02/05/24
4-Chlorotoluene	ND		ug/Kg	5.0	02/05/24	02/05/24
tert-Butylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
sec-Butylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
para-Isopropyl Toluene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,3-Dichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,4-Dichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
n-Butylbenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Hexachlorobutadiene	ND		ug/Kg	5.0	02/05/24	02/05/24
Naphthalene	ND		ug/Kg	5.0	02/05/24	02/05/24
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	02/05/24	02/05/24
Xylene (total)	ND		ug/Kg	5.0	02/05/24	02/05/24
Surrogates				**Limits**		
Dibromofluoromethane	95%		%REC	70-130	02/05/24	02/05/24
1,2-Dichloroethane-d4	107%		%REC	70-145	02/05/24	02/05/24
Toluene-d8	102%		%REC	70-145	02/05/24	02/05/24
Bromofluorobenzene	104%		%REC	70-145	02/05/24	02/05/24

Type: Lab Control Sample | **Lab ID:** QC1125953 | **Batch:** 332291
Matrix: Soil | **Method:** EPA 8260B | **Prep Method:** EPA 5035

QC1125953 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	45.54	50.00	ug/Kg	91%		70-131
MTBE	45.71	50.00	ug/Kg	91%		69-130
Benzene	48.41	50.00	ug/Kg	97%		70-130
Trichloroethene	46.43	50.00	ug/Kg	93%		70-130
Toluene	48.14	50.00	ug/Kg	96%		70-130
Chlorobenzene	49.09	50.00	ug/Kg	98%		70-130
Surrogates						
Dibromofluoromethane	50.71	50.00	ug/Kg	101%		70-130
1,2-Dichloroethane-d4	45.86	50.00	ug/Kg	92%		70-145
Toluene-d8	48.69	50.00	ug/Kg	97%		70-145
Bromofluorobenzene	50.80	50.00	ug/Kg	102%		70-145

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Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1125954**	**Batch:**	**332291**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1125954 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	44.03	50.00	ug/Kg	88%		70-131	3	33
MTBE	45.41	50.00	ug/Kg	91%		69-130	1	30
Benzene	47.33	50.00	ug/Kg	95%		70-130	2	30
Trichloroethene	45.53	50.00	ug/Kg	91%		70-130	2	30
Toluene	46.97	50.00	ug/Kg	94%		70-130	2	30
Chlorobenzene	48.01	50.00	ug/Kg	96%		70-130	2	30
Surrogates								
Dibromofluoromethane	51.15	50.00	ug/Kg	102%		70-130		
1,2-Dichloroethane-d4	46.04	50.00	ug/Kg	92%		70-145		
Toluene-d8	48.43	50.00	ug/Kg	97%		70-145		
Bromofluorobenzene	51.64	50.00	ug/Kg	103%		70-145		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1125957	Batch: 332291
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC1125957 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	02/06/24	02/06/24
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/06/24	02/06/24
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/06/24	02/06/24
Freon 12	ND		ug/Kg	5.0	02/06/24	02/06/24
Chloromethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Vinyl Chloride	ND		ug/Kg	5.0	02/06/24	02/06/24
Bromomethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Chloroethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Trichlorofluoromethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Acetone	ND		ug/Kg	100	02/06/24	02/06/24
Freon 113	ND		ug/Kg	5.0	02/06/24	02/06/24
1,1-Dichloroethene	ND		ug/Kg	5.0	02/06/24	02/06/24
Methylene Chloride	ND		ug/Kg	5.0	02/06/24	02/06/24
MTBE	ND		ug/Kg	5.0	02/06/24	02/06/24
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,1-Dichloroethane	ND		ug/Kg	5.0	02/06/24	02/06/24
2-Butanone	ND		ug/Kg	100	02/06/24	02/06/24
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	02/06/24	02/06/24
2,2-Dichloropropane	ND		ug/Kg	5.0	02/06/24	02/06/24
Chloroform	ND		ug/Kg	5.0	02/06/24	02/06/24
Bromochloromethane	ND		ug/Kg	5.0	02/06/24	02/06/24
1,1,1-Trichloroethane	ND		ug/Kg	5.0	02/06/24	02/06/24
1,1-Dichloropropene	ND		ug/Kg	5.0	02/06/24	02/06/24
Carbon Tetrachloride	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2-Dichloroethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Benzene	ND		ug/Kg	5.0	02/06/24	02/06/24
Trichloroethene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2-Dichloropropane	ND		ug/Kg	5.0	02/06/24	02/06/24
Bromodichloromethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Dibromomethane	ND		ug/Kg	5.0	02/06/24	02/06/24
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	02/06/24	02/06/24
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	02/06/24	02/06/24
Toluene	ND		ug/Kg	5.0	02/06/24	02/06/24
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,1,2-Trichloroethane	ND		ug/Kg	5.0	02/06/24	02/06/24
1,3-Dichloropropane	ND		ug/Kg	5.0	02/06/24	02/06/24
Tetrachloroethene	ND		ug/Kg	5.0	02/06/24	02/06/24
Dibromochloromethane	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2-Dibromoethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Chlorobenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	02/06/24	02/06/24
Ethylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
m,p-Xylenes	ND		ug/Kg	10	02/06/24	02/06/24
o-Xylene	ND		ug/Kg	5.0	02/06/24	02/06/24
Styrene	ND		ug/Kg	5.0	02/06/24	02/06/24
Bromoform	ND		ug/Kg	5.0	02/06/24	02/06/24
Isopropylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24

ENTHALPY ANALYTICAL

Batch QC

QC1125957 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2,3-Trichloropropane	ND		ug/Kg	5.0	02/06/24	02/06/24
Propylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
Bromobenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
2-Chlorotoluene	ND		ug/Kg	5.0	02/06/24	02/06/24
4-Chlorotoluene	ND		ug/Kg	5.0	02/06/24	02/06/24
tert-Butylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
sec-Butylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
para-Isopropyl Toluene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,3-Dichlorobenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,4-Dichlorobenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
n-Butylbenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2-Dichlorobenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
Hexachlorobutadiene	ND		ug/Kg	5.0	02/06/24	02/06/24
Naphthalene	ND		ug/Kg	5.0	02/06/24	02/06/24
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	02/06/24	02/06/24
Xylene (total)	ND		ug/Kg	5.0	02/06/24	02/06/24
Surrogates				**Limits**		
Dibromofluoromethane	101%		%REC	70-130	02/06/24	02/06/24
1,2-Dichloroethane-d4	93%		%REC	70-145	02/06/24	02/06/24
Toluene-d8	103%		%REC	70-145	02/06/24	02/06/24
Bromofluorobenzene	106%		%REC	70-145	02/06/24	02/06/24

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1125958	Batch: 332291
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC1125958 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	250	02/06/24	02/06/24
cis-1,4-Dichloro-2-butene	ND		ug/Kg	250	02/06/24	02/06/24
trans-1,4-Dichloro-2-butene	ND		ug/Kg	250	02/06/24	02/06/24
Freon 12	ND		ug/Kg	250	02/06/24	02/06/24
Chloromethane	ND		ug/Kg	250	02/06/24	02/06/24
Vinyl Chloride	ND		ug/Kg	250	02/06/24	02/06/24
Bromomethane	ND		ug/Kg	250	02/06/24	02/06/24
Chloroethane	ND		ug/Kg	250	02/06/24	02/06/24
Trichlorofluoromethane	ND		ug/Kg	250	02/06/24	02/06/24
Acetone	ND		ug/Kg	5,000	02/06/24	02/06/24
Freon 113	ND		ug/Kg	250	02/06/24	02/06/24
1,1-Dichloroethene	ND		ug/Kg	250	02/06/24	02/06/24
Methylene Chloride	ND		ug/Kg	250	02/06/24	02/06/24
MTBE	ND		ug/Kg	250	02/06/24	02/06/24
trans-1,2-Dichloroethene	ND		ug/Kg	250	02/06/24	02/06/24
1,1-Dichloroethane	ND		ug/Kg	250	02/06/24	02/06/24
2-Butanone	ND		ug/Kg	5,000	02/06/24	02/06/24
cis-1,2-Dichloroethene	ND		ug/Kg	250	02/06/24	02/06/24
2,2-Dichloropropane	ND		ug/Kg	250	02/06/24	02/06/24
Chloroform	ND		ug/Kg	250	02/06/24	02/06/24
Bromochloromethane	ND		ug/Kg	250	02/06/24	02/06/24
1,1,1-Trichloroethane	ND		ug/Kg	250	02/06/24	02/06/24
1,1-Dichloropropene	ND		ug/Kg	250	02/06/24	02/06/24
Carbon Tetrachloride	ND		ug/Kg	250	02/06/24	02/06/24
1,2-Dichloroethane	ND		ug/Kg	250	02/06/24	02/06/24
Benzene	ND		ug/Kg	250	02/06/24	02/06/24
Trichloroethene	ND		ug/Kg	250	02/06/24	02/06/24
1,2-Dichloropropane	ND		ug/Kg	250	02/06/24	02/06/24
Bromodichloromethane	ND		ug/Kg	250	02/06/24	02/06/24
Dibromomethane	ND		ug/Kg	250	02/06/24	02/06/24
4-Methyl-2-Pentanone	ND		ug/Kg	250	02/06/24	02/06/24
cis-1,3-Dichloropropene	ND		ug/Kg	250	02/06/24	02/06/24
Toluene	ND		ug/Kg	250	02/06/24	02/06/24
trans-1,3-Dichloropropene	ND		ug/Kg	250	02/06/24	02/06/24
1,1,2-Trichloroethane	ND		ug/Kg	250	02/06/24	02/06/24
1,3-Dichloropropane	ND		ug/Kg	250	02/06/24	02/06/24
Tetrachloroethene	ND		ug/Kg	250	02/06/24	02/06/24
Dibromochloromethane	ND		ug/Kg	250	02/06/24	02/06/24
1,2-Dibromoethane	ND		ug/Kg	250	02/06/24	02/06/24
Chlorobenzene	ND		ug/Kg	250	02/06/24	02/06/24
1,1,1,2-Tetrachloroethane	ND		ug/Kg	250	02/06/24	02/06/24
Ethylbenzene	ND		ug/Kg	250	02/06/24	02/06/24
m,p-Xylenes	ND		ug/Kg	500	02/06/24	02/06/24
o-Xylene	ND		ug/Kg	250	02/06/24	02/06/24
Styrene	ND		ug/Kg	250	02/06/24	02/06/24
Bromoform	ND		ug/Kg	250	02/06/24	02/06/24
Isopropylbenzene	ND		ug/Kg	250	02/06/24	02/06/24

Batch QC

QC1125958 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ug/Kg	250	02/06/24	02/06/24
1,2,3-Trichloropropane	ND		ug/Kg	250	02/06/24	02/06/24
Propylbenzene	ND		ug/Kg	250	02/06/24	02/06/24
Bromobenzene	ND		ug/Kg	250	02/06/24	02/06/24
1,3,5-Trimethylbenzene	ND		ug/Kg	250	02/06/24	02/06/24
2-Chlorotoluene	ND		ug/Kg	250	02/06/24	02/06/24
4-Chlorotoluene	ND		ug/Kg	250	02/06/24	02/06/24
tert-Butylbenzene	ND		ug/Kg	250	02/06/24	02/06/24
1,2,4-Trimethylbenzene	ND		ug/Kg	250	02/06/24	02/06/24
sec-Butylbenzene	ND		ug/Kg	250	02/06/24	02/06/24
para-Isopropyl Toluene	ND		ug/Kg	250	02/06/24	02/06/24
1,3-Dichlorobenzene	ND		ug/Kg	250	02/06/24	02/06/24
1,4-Dichlorobenzene	ND		ug/Kg	250	02/06/24	02/06/24
n-Butylbenzene	ND		ug/Kg	250	02/06/24	02/06/24
1,2-Dichlorobenzene	ND		ug/Kg	250	02/06/24	02/06/24
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	250	02/06/24	02/06/24
1,2,4-Trichlorobenzene	ND		ug/Kg	250	02/06/24	02/06/24
Hexachlorobutadiene	ND		ug/Kg	250	02/06/24	02/06/24
Naphthalene	ND		ug/Kg	250	02/06/24	02/06/24
1,2,3-Trichlorobenzene	ND		ug/Kg	250	02/06/24	02/06/24
Xylene (total)	ND		ug/Kg	250	02/06/24	02/06/24
Surrogates				**Limits**		
Dibromofluoromethane	98%		%REC	70-130	02/06/24	02/06/24
1,2-Dichloroethane-d4	89%		%REC	70-145	02/06/24	02/06/24
Toluene-d8	103%		%REC	70-145	02/06/24	02/06/24
Bromofluorobenzene	105%		%REC	70-145	02/06/24	02/06/24

Type: Lab Control Sample | **Lab ID:** QC1126651 | **Batch:** 332517
Matrix: Soil | **Method:** EPA 8260B | **Prep Method:** EPA 5035

QC1126651 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	43.43	50.00	ug/Kg	87%		70-131
MTBE	45.52	50.00	ug/Kg	91%		69-130
Benzene	48.20	50.00	ug/Kg	96%		70-130
Trichloroethene	45.28	50.00	ug/Kg	91%		70-130
Toluene	48.30	50.00	ug/Kg	97%		70-130
Chlorobenzene	48.86	50.00	ug/Kg	98%		70-130
Surrogates						
Dibromofluoromethane	51.31	50.00	ug/Kg	103%		70-130
1,2-Dichloroethane-d4	45.60	50.00	ug/Kg	91%		70-145
Toluene-d8	48.57	50.00	ug/Kg	97%		70-145
Bromofluorobenzene	52.09	50.00	ug/Kg	104%		70-145

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1126652**	**Batch:**	**332517**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1126652 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	42.93	50.00	ug/Kg	86%		70-131	1	33
MTBE	44.53	50.00	ug/Kg	89%		69-130	2	30
Benzene	46.56	50.00	ug/Kg	93%		70-130	3	30
Trichloroethene	43.35	50.00	ug/Kg	87%		70-130	4	30
Toluene	47.76	50.00	ug/Kg	96%		70-130	1	30
Chlorobenzene	47.90	50.00	ug/Kg	96%		70-130	2	30
Surrogates								
Dibromofluoromethane	51.75	50.00	ug/Kg	103%		70-130		
1,2-Dichloroethane-d4	45.99	50.00	ug/Kg	92%		70-145		
Toluene-d8	49.38	50.00	ug/Kg	99%		70-145		
Bromofluorobenzene	51.80	50.00	ug/Kg	104%		70-145		

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1126655**	**Batch:**	**332517**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1126655 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	02/08/24	02/08/24
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/08/24	02/08/24
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	02/08/24	02/08/24
Freon 12	ND		ug/Kg	5.0	02/08/24	02/08/24
Chloromethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Vinyl Chloride	ND		ug/Kg	5.0	02/08/24	02/08/24
Bromomethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Chloroethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Trichlorofluoromethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Acetone	ND		ug/Kg	100	02/08/24	02/08/24
Freon 113	ND		ug/Kg	5.0	02/08/24	02/08/24
1,1-Dichloroethene	ND		ug/Kg	5.0	02/08/24	02/08/24
Methylene Chloride	ND		ug/Kg	5.0	02/08/24	02/08/24
MTBE	ND		ug/Kg	5.0	02/08/24	02/08/24
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,1-Dichloroethane	ND		ug/Kg	5.0	02/08/24	02/08/24
2-Butanone	ND		ug/Kg	100	02/08/24	02/08/24
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	02/08/24	02/08/24
2,2-Dichloropropane	ND		ug/Kg	5.0	02/08/24	02/08/24
Chloroform	ND		ug/Kg	5.0	02/08/24	02/08/24
Bromochloromethane	ND		ug/Kg	5.0	02/08/24	02/08/24
1,1,1-Trichloroethane	ND		ug/Kg	5.0	02/08/24	02/08/24
1,1-Dichloropropene	ND		ug/Kg	5.0	02/08/24	02/08/24
Carbon Tetrachloride	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2-Dichloroethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Benzene	ND		ug/Kg	5.0	02/08/24	02/08/24
Trichloroethene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2-Dichloropropane	ND		ug/Kg	5.0	02/08/24	02/08/24
Bromodichloromethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Dibromomethane	ND		ug/Kg	5.0	02/08/24	02/08/24
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	02/08/24	02/08/24
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	02/08/24	02/08/24
Toluene	ND		ug/Kg	5.0	02/08/24	02/08/24
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,1,2-Trichloroethane	ND		ug/Kg	5.0	02/08/24	02/08/24
1,3-Dichloropropane	ND		ug/Kg	5.0	02/08/24	02/08/24
Tetrachloroethene	ND		ug/Kg	5.0	02/08/24	02/08/24
Dibromochloromethane	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2-Dibromoethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Chlorobenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	02/08/24	02/08/24
Ethylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
m,p-Xylenes	ND		ug/Kg	10	02/08/24	02/08/24
o-Xylene	ND		ug/Kg	5.0	02/08/24	02/08/24
Styrene	ND		ug/Kg	5.0	02/08/24	02/08/24
Bromoform	ND		ug/Kg	5.0	02/08/24	02/08/24
Isopropylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24

Batch QC

QC1126655 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2,3-Trichloropropane	ND		ug/Kg	5.0	02/08/24	02/08/24
Propylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
Bromobenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
2-Chlorotoluene	ND		ug/Kg	5.0	02/08/24	02/08/24
4-Chlorotoluene	ND		ug/Kg	5.0	02/08/24	02/08/24
tert-Butylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
sec-Butylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
para-Isopropyl Toluene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,3-Dichlorobenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,4-Dichlorobenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
n-Butylbenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2-Dichlorobenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
Hexachlorobutadiene	ND		ug/Kg	5.0	02/08/24	02/08/24
Naphthalene	ND		ug/Kg	5.0	02/08/24	02/08/24
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	02/08/24	02/08/24
Xylene (total)	ND		ug/Kg	5.0	02/08/24	02/08/24
Surrogates				**Limits**		
Dibromofluoromethane	101%		%REC	70-130	02/08/24	02/08/24
1,2-Dichloroethane-d4	91%		%REC	70-145	02/08/24	02/08/24
Toluene-d8	101%		%REC	70-145	02/08/24	02/08/24
Bromofluorobenzene	104%		%REC	70-145	02/08/24	02/08/24

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1126656	Batch: 332517
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC1126656 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	250	02/08/24	02/08/24
cis-1,4-Dichloro-2-butene	ND		ug/Kg	250	02/08/24	02/08/24
trans-1,4-Dichloro-2-butene	ND		ug/Kg	250	02/08/24	02/08/24
Freon 12	ND		ug/Kg	250	02/08/24	02/08/24
Chloromethane	ND		ug/Kg	250	02/08/24	02/08/24
Vinyl Chloride	ND		ug/Kg	250	02/08/24	02/08/24
Bromomethane	ND		ug/Kg	250	02/08/24	02/08/24
Chloroethane	ND		ug/Kg	250	02/08/24	02/08/24
Trichlorofluoromethane	ND		ug/Kg	250	02/08/24	02/08/24
Acetone	ND		ug/Kg	5,000	02/08/24	02/08/24
Freon 113	ND		ug/Kg	250	02/08/24	02/08/24
1,1-Dichloroethene	ND		ug/Kg	250	02/08/24	02/08/24
Methylene Chloride	ND		ug/Kg	250	02/08/24	02/08/24
MTBE	ND		ug/Kg	250	02/08/24	02/08/24
trans-1,2-Dichloroethene	ND		ug/Kg	250	02/08/24	02/08/24
1,1-Dichloroethane	ND		ug/Kg	250	02/08/24	02/08/24
2-Butanone	ND		ug/Kg	5,000	02/08/24	02/08/24
cis-1,2-Dichloroethene	ND		ug/Kg	250	02/08/24	02/08/24
2,2-Dichloropropane	ND		ug/Kg	250	02/08/24	02/08/24
Chloroform	ND		ug/Kg	250	02/08/24	02/08/24
Bromochloromethane	ND		ug/Kg	250	02/08/24	02/08/24
1,1,1-Trichloroethane	ND		ug/Kg	250	02/08/24	02/08/24
1,1-Dichloropropene	ND		ug/Kg	250	02/08/24	02/08/24
Carbon Tetrachloride	ND		ug/Kg	250	02/08/24	02/08/24
1,2-Dichloroethane	ND		ug/Kg	250	02/08/24	02/08/24
Benzene	ND		ug/Kg	250	02/08/24	02/08/24
Trichloroethene	ND		ug/Kg	250	02/08/24	02/08/24
1,2-Dichloropropane	ND		ug/Kg	250	02/08/24	02/08/24
Bromodichloromethane	ND		ug/Kg	250	02/08/24	02/08/24
Dibromomethane	ND		ug/Kg	250	02/08/24	02/08/24
4-Methyl-2-Pentanone	ND		ug/Kg	250	02/08/24	02/08/24
cis-1,3-Dichloropropene	ND		ug/Kg	250	02/08/24	02/08/24
Toluene	ND		ug/Kg	250	02/08/24	02/08/24
trans-1,3-Dichloropropene	ND		ug/Kg	250	02/08/24	02/08/24
1,1,2-Trichloroethane	ND		ug/Kg	250	02/08/24	02/08/24
1,3-Dichloropropane	ND		ug/Kg	250	02/08/24	02/08/24
Tetrachloroethene	ND		ug/Kg	250	02/08/24	02/08/24
Dibromochloromethane	ND		ug/Kg	250	02/08/24	02/08/24
1,2-Dibromoethane	ND		ug/Kg	250	02/08/24	02/08/24
Chlorobenzene	ND		ug/Kg	250	02/08/24	02/08/24
1,1,1,2-Tetrachloroethane	ND		ug/Kg	250	02/08/24	02/08/24
Ethylbenzene	ND		ug/Kg	250	02/08/24	02/08/24
m,p-Xylenes	ND		ug/Kg	500	02/08/24	02/08/24
o-Xylene	ND		ug/Kg	250	02/08/24	02/08/24
Styrene	ND		ug/Kg	250	02/08/24	02/08/24
Bromoform	ND		ug/Kg	250	02/08/24	02/08/24
Isopropylbenzene	ND		ug/Kg	250	02/08/24	02/08/24

ENTHALPY ANALYTICAL

Batch QC

QC1126656 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ug/Kg	250	02/08/24	02/08/24
1,2,3-Trichloropropane	ND		ug/Kg	250	02/08/24	02/08/24
Propylbenzene	ND		ug/Kg	250	02/08/24	02/08/24
Bromobenzene	ND		ug/Kg	250	02/08/24	02/08/24
1,3,5-Trimethylbenzene	ND		ug/Kg	250	02/08/24	02/08/24
2-Chlorotoluene	ND		ug/Kg	250	02/08/24	02/08/24
4-Chlorotoluene	ND		ug/Kg	250	02/08/24	02/08/24
tert-Butylbenzene	ND		ug/Kg	250	02/08/24	02/08/24
1,2,4-Trimethylbenzene	ND		ug/Kg	250	02/08/24	02/08/24
sec-Butylbenzene	ND		ug/Kg	250	02/08/24	02/08/24
para-Isopropyl Toluene	ND		ug/Kg	250	02/08/24	02/08/24
1,3-Dichlorobenzene	ND		ug/Kg	250	02/08/24	02/08/24
1,4-Dichlorobenzene	ND		ug/Kg	250	02/08/24	02/08/24
n-Butylbenzene	ND		ug/Kg	250	02/08/24	02/08/24
1,2-Dichlorobenzene	ND		ug/Kg	250	02/08/24	02/08/24
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	250	02/08/24	02/08/24
1,2,4-Trichlorobenzene	ND		ug/Kg	250	02/08/24	02/08/24
Hexachlorobutadiene	ND		ug/Kg	250	02/08/24	02/08/24
Naphthalene	ND		ug/Kg	250	02/08/24	02/08/24
1,2,3-Trichlorobenzene	ND		ug/Kg	250	02/08/24	02/08/24
Xylene (total)	ND		ug/Kg	250	02/08/24	02/08/24
Surrogates				**Limits**		
Dibromofluoromethane	102%		%REC	70-130	02/08/24	02/08/24
1,2-Dichloroethane-d4	91%		%REC	70-145	02/08/24	02/08/24
Toluene-d8	100%		%REC	70-145	02/08/24	02/08/24
Bromofluorobenzene	105%		%REC	70-145	02/08/24	02/08/24

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1125409**	**Batch:**	**332122**
Matrix:	**Soil**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1125409 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Carbazole	ND		ug/Kg	250	02/03/24	02/04/24
1-Methylnaphthalene	ND		ug/Kg	250	02/03/24	02/04/24
Pyridine	ND		ug/Kg	250	02/03/24	02/04/24
N-Nitrosodimethylamine	ND		ug/Kg	250	02/03/24	02/04/24
Phenol	ND		ug/Kg	250	02/03/24	02/04/24
Aniline	ND		ug/Kg	250	02/03/24	02/04/24
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	02/03/24	02/04/24
2-Chlorophenol	ND		ug/Kg	250	02/03/24	02/04/24
1,3-Dichlorobenzene	ND		ug/Kg	250	02/03/24	02/04/24
1,4-Dichlorobenzene	ND		ug/Kg	250	02/03/24	02/04/24
Benzyl alcohol	ND		ug/Kg	250	02/03/24	02/04/24
1,2-Dichlorobenzene	ND		ug/Kg	250	02/03/24	02/04/24
2-Methylphenol	ND		ug/Kg	250	02/03/24	02/04/24
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	02/03/24	02/04/24
3-,4-Methylphenol	ND		ug/Kg	400	02/03/24	02/04/24
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	02/03/24	02/04/24
Hexachloroethane	ND		ug/Kg	250	02/03/24	02/04/24
Nitrobenzene	ND		ug/Kg	1,200	02/03/24	02/04/24
Isophorone	ND		ug/Kg	250	02/03/24	02/04/24
2-Nitrophenol	ND		ug/Kg	250	02/03/24	02/04/24
2,4-Dimethylphenol	ND		ug/Kg	250	02/03/24	02/04/24
Benzoic acid	ND		ug/Kg	1,200	02/03/24	02/04/24
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	02/03/24	02/04/24
2,4-Dichlorophenol	ND		ug/Kg	250	02/03/24	02/04/24
1,2,4-Trichlorobenzene	ND		ug/Kg	250	02/03/24	02/04/24
Naphthalene	ND		ug/Kg	250	02/03/24	02/04/24
4-Chloroaniline	ND		ug/Kg	250	02/03/24	02/04/24
Hexachlorobutadiene	ND		ug/Kg	250	02/03/24	02/04/24
4-Chloro-3-methylphenol	ND		ug/Kg	250	02/03/24	02/04/24
2-Methylnaphthalene	ND		ug/Kg	250	02/03/24	02/04/24
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	02/03/24	02/04/24
2,4,6-Trichlorophenol	ND		ug/Kg	250	02/03/24	02/04/24
2,4,5-Trichlorophenol	ND		ug/Kg	250	02/03/24	02/04/24
2-Chloronaphthalene	ND		ug/Kg	250	02/03/24	02/04/24
2-Nitroaniline	ND		ug/Kg	250	02/03/24	02/04/24
Dimethylphthalate	ND		ug/Kg	250	02/03/24	02/04/24
Acenaphthylene	ND		ug/Kg	250	02/03/24	02/04/24
2,6-Dinitrotoluene	ND		ug/Kg	250	02/03/24	02/04/24
3-Nitroaniline	ND		ug/Kg	250	02/03/24	02/04/24
Acenaphthene	ND		ug/Kg	250	02/03/24	02/04/24
2,4-Dinitrophenol	ND		ug/Kg	1,200	02/03/24	02/04/24
4-Nitrophenol	ND		ug/Kg	250	02/03/24	02/04/24
Dibenzofuran	ND		ug/Kg	250	02/03/24	02/04/24
2,4-Dinitrotoluene	ND		ug/Kg	250	02/03/24	02/04/24
Diethylphthalate	ND		ug/Kg	250	02/03/24	02/04/24
Fluorene	ND		ug/Kg	250	02/03/24	02/04/24
4-Chlorophenyl-phenylether	ND		ug/Kg	250	02/03/24	02/04/24

Batch QC

QC1125409 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
4-Nitroaniline	ND		ug/Kg	250	02/03/24	02/04/24
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	02/03/24	02/04/24
N-Nitrosodiphenylamine	ND		ug/Kg	250	02/03/24	02/04/24
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	02/03/24	02/04/24
4-Bromophenyl-phenylether	ND		ug/Kg	250	02/03/24	02/04/24
Hexachlorobenzene	ND		ug/Kg	250	02/03/24	02/04/24
Pentachlorophenol	ND		ug/Kg	1,200	02/03/24	02/04/24
Phenanthrene	ND		ug/Kg	250	02/03/24	02/04/24
Anthracene	ND		ug/Kg	250	02/03/24	02/04/24
Di-n-butylphthalate	ND		ug/Kg	250	02/03/24	02/04/24
Fluoranthene	ND		ug/Kg	250	02/03/24	02/04/24
Benzidine	ND		ug/Kg	1,200	02/03/24	02/04/24
Pyrene	ND		ug/Kg	250	02/03/24	02/04/24
Butylbenzylphthalate	ND		ug/Kg	250	02/03/24	02/04/24
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	02/03/24	02/04/24
Benzo(a)anthracene	ND		ug/Kg	250	02/03/24	02/04/24
Chrysene	ND		ug/Kg	250	02/03/24	02/04/24
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	02/03/24	02/04/24
Di-n-octylphthalate	ND		ug/Kg	250	02/03/24	02/04/24
Benzo(b)fluoranthene	ND		ug/Kg	250	02/03/24	02/04/24
Benzo(k)fluoranthene	ND		ug/Kg	250	02/03/24	02/04/24
Benzo(a)pyrene	ND		ug/Kg	250	02/03/24	02/04/24
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	02/03/24	02/04/24
Dibenz(a,h)anthracene	ND		ug/Kg	250	02/03/24	02/04/24
Benzo(g,h,i)perylene	ND		ug/Kg	250	02/03/24	02/04/24
Surrogates				**Limits**		
2-Fluorophenol	87%		%REC	29-120	02/03/24	02/04/24
Phenol-d6	88%		%REC	30-120	02/03/24	02/04/24
2,4,6-Tribromophenol	68%		%REC	32-120	02/03/24	02/04/24
Nitrobenzene-d5	86%		%REC	33-120	02/03/24	02/04/24
2-Fluorobiphenyl	83%		%REC	39-120	02/03/24	02/04/24
Terphenyl-d14	90%		%REC	44-125	02/03/24	02/04/24

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Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1125410**	**Batch:**	**332122**
Matrix:	**Soil**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1125410 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phenol	4,035	3750	ug/Kg	108%		42-120
2-Chlorophenol	4,085	3750	ug/Kg	109%		41-120
1,4-Dichlorobenzene	4,070	3750	ug/Kg	109%		36-120
3-,4-Methylphenol	4,204	3750	ug/Kg	112%		42-120
N-Nitroso-di-n-propylamine	4,020	3750	ug/Kg	107%		43-121
2,4-Dimethylphenol	2,876	3750	ug/Kg	77%		25-120
1,2,4-Trichlorobenzene	4,025	3750	ug/Kg	107%		38-120
4-Chloro-3-methylphenol	4,139	3750	ug/Kg	110%		40-125
2,4,5-Trichlorophenol	4,363	3750	ug/Kg	116%		40-124
Acenaphthene	3,631	3750	ug/Kg	97%		35-126
4-Nitrophenol	3,423	3750	ug/Kg	91%		24-128
2,4-Dinitrotoluene	4,340	3750	ug/Kg	116%		40-131
Pentachlorophenol	2,586	3750	ug/Kg	69%		35-120
Pyrene	4,216	3750	ug/Kg	112%		37-135
Chrysene	4,033	3750	ug/Kg	108%		38-132
Benzo(b)fluoranthene	4,283	3750	ug/Kg	114%		38-135
Surrogates						
2-Fluorophenol	2,074	2000	ug/Kg	104%		29-120
Phenol-d6	2,099	2000	ug/Kg	105%		30-120
2,4,6-Tribromophenol	1,632	2000	ug/Kg	82%		32-120
Nitrobenzene-d5	2,066	2000	ug/Kg	103%		33-120
2-Fluorobiphenyl	1,959	2000	ug/Kg	98%		39-120
Terphenyl-d14	2,050	2000	ug/Kg	103%		44-125

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1125411**	**Batch:**	**332122**
Matrix (Source ID):	**Soil (500988-001)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1125411 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phenol	1,767	ND	3769	ug/Kg		DO	37-120	100
2-Chlorophenol	1,751	ND	3769	ug/Kg		DO	33-120	100
1,4-Dichlorobenzene	2,296	ND	3769	ug/Kg		DO	32-120	100
3-,4-Methylphenol	1,963	ND	3769	ug/Kg		DO	37-120	100
N-Nitroso-di-n-propylamine	2,189	ND	3769	ug/Kg		DO	32-120	100
2,4-Dimethylphenol	1,010	ND	3769	ug/Kg		DO	32-120	100
1,2,4-Trichlorobenzene	2,691	ND	3769	ug/Kg		DO	33-120	100
4-Chloro-3-methylphenol	2,284	ND	3769	ug/Kg		DO	41-121	100
2,4,5-Trichlorophenol	2,138	ND	3769	ug/Kg		DO	40-120	100
Acenaphthene	2,741	ND	3769	ug/Kg		DO	37-120	100
4-Nitrophenol	0	ND	3769	ug/Kg		DO	20-141	100
2,4-Dinitrotoluene	1,527	ND	3769	ug/Kg		DO	33-128	100
Pentachlorophenol	0	ND	3769	ug/Kg		DO	28-132	100
Pyrene	3,246	ND	3769	ug/Kg		DO	39-135	100
Chrysene	3,317	ND	3769	ug/Kg		DO	37-135	100
Benzo(b)fluoranthene	3,221	ND	3769	ug/Kg		DO	34-139	100
Surrogates								
2-Fluorophenol	0		2010	ug/Kg		DO	29-120	100
Phenol-d6	595.5		2010	ug/Kg		DO	30-120	100
2,4,6-Tribromophenol	0		2010	ug/Kg		DO	32-120	100
Nitrobenzene-d5	813.4		2010	ug/Kg		DO	33-120	100
2-Fluorobiphenyl	1,407		2010	ug/Kg		DO	39-120	100
Terphenyl-d14	1,505		2010	ug/Kg		DO	44-125	100

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1125412**	**Batch:**	**332122**
Matrix (Source ID):	**Soil (500988-001)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1125412 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phenol	1,171	ND	3731	ug/Kg		DO	37-120		49	100
2-Chlorophenol	1,382	ND	3731	ug/Kg		DO	33-120		52	100
1,4-Dichlorobenzene	2,233	ND	3731	ug/Kg		DO	32-120		50	100
3-,4-Methylphenol	1,426	ND	3731	ug/Kg		DO	37-120		54	100
N-Nitroso-di-n-propylamine	1,927	ND	3731	ug/Kg		DO	32-120		50	100
2,4-Dimethylphenol	909.2	ND	3731	ug/Kg		DO	32-120		50	100
1,2,4-Trichlorobenzene	2,937	ND	3731	ug/Kg		DO	33-120		50	100
4-Chloro-3-methylphenol	1,666	ND	3731	ug/Kg		DO	41-121		43	100
2,4,5-Trichlorophenol	2,375	ND	3731	ug/Kg		DO	40-120		47	100
Acenaphthene	2,857	ND	3731	ug/Kg		DO	37-120		48	100
4-Nitrophenol	0	ND	3731	ug/Kg		DO	20-141		30	100
2,4-Dinitrotoluene	1,550	ND	3731	ug/Kg		DO	33-128		50	100
Pentachlorophenol	0	ND	3731	ug/Kg		DO	28-132		30	100
Pyrene	3,355	ND	3731	ug/Kg		DO	39-135		41	100
Chrysene	3,283	ND	3731	ug/Kg		DO	37-135		46	100
Benzo(b)fluoranthene	3,246	ND	3731	ug/Kg		DO	34-139		47	100
Surrogates										
2-Fluorophenol	0		1990	ug/Kg		DO	29-120			100
Phenol-d6	268.0		1990	ug/Kg		DO	30-120			100
2,4,6-Tribromophenol	0		1990	ug/Kg		DO	32-120			100
Nitrobenzene-d5	647.2		1990	ug/Kg		DO	33-120			100
2-Fluorobiphenyl	1,370		1990	ug/Kg		DO	39-120			100
Terphenyl-d14	1,533		1990	ug/Kg		DO	44-125			100

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1128195**	**Batch:**	**333029**
Matrix:	**Soil**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1128195 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Carbazole	ND		ug/Kg	250	02/14/24	02/14/24
1-Methylnaphthalene	ND		ug/Kg	250	02/14/24	02/14/24
Pyridine	ND		ug/Kg	250	02/14/24	02/14/24
N-Nitrosodimethylamine	ND		ug/Kg	250	02/14/24	02/14/24
Phenol	ND		ug/Kg	250	02/14/24	02/14/24
Aniline	ND		ug/Kg	250	02/14/24	02/14/24
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	02/14/24	02/14/24
2-Chlorophenol	ND		ug/Kg	250	02/14/24	02/14/24
1,3-Dichlorobenzene	ND		ug/Kg	250	02/14/24	02/14/24
1,4-Dichlorobenzene	ND		ug/Kg	250	02/14/24	02/14/24
Benzyl alcohol	ND		ug/Kg	250	02/14/24	02/14/24
1,2-Dichlorobenzene	ND		ug/Kg	250	02/14/24	02/14/24
2-Methylphenol	ND		ug/Kg	250	02/14/24	02/14/24
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	02/14/24	02/14/24
3-,4-Methylphenol	ND		ug/Kg	400	02/14/24	02/14/24
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	02/14/24	02/14/24
Hexachloroethane	ND		ug/Kg	250	02/14/24	02/14/24
Nitrobenzene	ND		ug/Kg	1,200	02/14/24	02/14/24
Isophorone	ND		ug/Kg	250	02/14/24	02/14/24
2-Nitrophenol	ND		ug/Kg	250	02/14/24	02/14/24
2,4-Dimethylphenol	ND		ug/Kg	250	02/14/24	02/14/24
Benzoic acid	ND		ug/Kg	1,200	02/14/24	02/14/24
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	02/14/24	02/14/24
2,4-Dichlorophenol	ND		ug/Kg	250	02/14/24	02/14/24
1,2,4-Trichlorobenzene	ND		ug/Kg	250	02/14/24	02/14/24
Naphthalene	ND		ug/Kg	250	02/14/24	02/14/24
4-Chloroaniline	ND		ug/Kg	250	02/14/24	02/14/24
Hexachlorobutadiene	ND		ug/Kg	250	02/14/24	02/14/24
4-Chloro-3-methylphenol	ND		ug/Kg	250	02/14/24	02/14/24
2-Methylnaphthalene	ND		ug/Kg	250	02/14/24	02/14/24
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	02/14/24	02/14/24
2,4,6-Trichlorophenol	ND		ug/Kg	250	02/14/24	02/14/24
2,4,5-Trichlorophenol	ND		ug/Kg	250	02/14/24	02/14/24
2-Chloronaphthalene	ND		ug/Kg	250	02/14/24	02/14/24
2-Nitroaniline	ND		ug/Kg	250	02/14/24	02/14/24
Dimethylphthalate	ND		ug/Kg	250	02/14/24	02/14/24
Acenaphthylene	ND		ug/Kg	250	02/14/24	02/14/24
2,6-Dinitrotoluene	ND		ug/Kg	250	02/14/24	02/14/24
3-Nitroaniline	ND		ug/Kg	250	02/14/24	02/14/24
Acenaphthene	ND		ug/Kg	250	02/14/24	02/14/24
2,4-Dinitrophenol	ND		ug/Kg	1,200	02/14/24	02/14/24
4-Nitrophenol	ND		ug/Kg	250	02/14/24	02/14/24
Dibenzofuran	ND		ug/Kg	250	02/14/24	02/14/24
2,4-Dinitrotoluene	ND		ug/Kg	250	02/14/24	02/14/24
Diethylphthalate	ND		ug/Kg	250	02/14/24	02/14/24
Fluorene	ND		ug/Kg	250	02/14/24	02/14/24
4-Chlorophenyl-phenylether	ND		ug/Kg	250	02/14/24	02/14/24

Batch QC

QC1128195 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
4-Nitroaniline	ND		ug/Kg	250	02/14/24	02/14/24
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	02/14/24	02/14/24
N-Nitrosodiphenylamine	ND		ug/Kg	250	02/14/24	02/14/24
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	02/14/24	02/14/24
4-Bromophenyl-phenylether	ND		ug/Kg	250	02/14/24	02/14/24
Hexachlorobenzene	ND		ug/Kg	250	02/14/24	02/14/24
Pentachlorophenol	ND		ug/Kg	1,200	02/14/24	02/14/24
Phenanthrene	ND		ug/Kg	250	02/14/24	02/14/24
Anthracene	ND		ug/Kg	250	02/14/24	02/14/24
Di-n-butylphthalate	ND		ug/Kg	250	02/14/24	02/14/24
Fluoranthene	ND		ug/Kg	250	02/14/24	02/14/24
Benzidine	ND		ug/Kg	1,200	02/14/24	02/14/24
Pyrene	ND		ug/Kg	250	02/14/24	02/14/24
Butylbenzylphthalate	ND		ug/Kg	250	02/14/24	02/14/24
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	02/14/24	02/14/24
Benzo(a)anthracene	ND		ug/Kg	250	02/14/24	02/14/24
Chrysene	ND		ug/Kg	250	02/14/24	02/14/24
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	02/14/24	02/14/24
Di-n-octylphthalate	ND		ug/Kg	250	02/14/24	02/14/24
Benzo(b)fluoranthene	ND		ug/Kg	250	02/14/24	02/14/24
Benzo(k)fluoranthene	ND		ug/Kg	250	02/14/24	02/14/24
Benzo(a)pyrene	ND		ug/Kg	250	02/14/24	02/14/24
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	02/14/24	02/14/24
Dibenz(a,h)anthracene	ND		ug/Kg	250	02/14/24	02/14/24
Benzo(g,h,i)perylene	ND		ug/Kg	250	02/14/24	02/14/24
Surrogates				**Limits**		
2-Fluorophenol	67%		%REC	29-120	02/14/24	02/14/24
Phenol-d6	65%		%REC	30-120	02/14/24	02/14/24
2,4,6-Tribromophenol	59%		%REC	32-120	02/14/24	02/14/24
Nitrobenzene-d5	67%		%REC	33-120	02/14/24	02/14/24
2-Fluorobiphenyl	77%		%REC	39-120	02/14/24	02/14/24
Terphenyl-d14	76%		%REC	44-125	02/14/24	02/14/24

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1128196	**Batch:** 333029
Matrix: Soil	**Method:** EPA 8270C	**Prep Method:** EPA 3546

QC1128196 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phenol	3,228	3750	ug/Kg	86%		42-120
2-Chlorophenol	3,503	3750	ug/Kg	93%		41-120
1,4-Dichlorobenzene	3,560	3750	ug/Kg	95%		36-120
3-,4-Methylphenol	3,630	3750	ug/Kg	97%		42-120
N-Nitroso-di-n-propylamine	3,429	3750	ug/Kg	91%		43-121
2,4-Dimethylphenol	2,553	3750	ug/Kg	68%		25-120
1,2,4-Trichlorobenzene	3,620	3750	ug/Kg	97%		38-120
4-Chloro-3-methylphenol	3,743	3750	ug/Kg	100%		40-125
2,4,5-Trichlorophenol	4,052	3750	ug/Kg	108%		40-124
Acenaphthene	3,248	3750	ug/Kg	87%		35-126
4-Nitrophenol	2,717	3750	ug/Kg	72%		24-128
2,4-Dinitrotoluene	3,995	3750	ug/Kg	107%		40-131
Pentachlorophenol	2,704	3750	ug/Kg	72%		35-120
Pyrene	3,917	3750	ug/Kg	104%		37-135
Chrysene	3,549	3750	ug/Kg	95%		38-132
Benzo(b)fluoranthene	3,640	3750	ug/Kg	97%		38-135
Surrogates						
2-Fluorophenol	1,615	2000	ug/Kg	81%		29-120
Phenol-d6	1,697	2000	ug/Kg	85%		30-120
2,4,6-Tribromophenol	1,607	2000	ug/Kg	80%		32-120
Nitrobenzene-d5	1,694	2000	ug/Kg	85%		33-120
2-Fluorobiphenyl	1,829	2000	ug/Kg	91%		39-120
Terphenyl-d14	1,909	2000	ug/Kg	95%		44-125

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1128197**	**Batch:**	**333029**
Matrix (Source ID):	**Soil (501964-042)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1128197 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phenol	2,260	ND	3731	ug/Kg		DO	37-120	50
2-Chlorophenol	2,529	ND	3731	ug/Kg		DO	33-120	50
1,4-Dichlorobenzene	2,986	ND	3731	ug/Kg		DO	32-120	50
3-,4-Methylphenol	2,722	ND	3731	ug/Kg		DO	37-120	50
N-Nitroso-di-n-propylamine	2,699	ND	3731	ug/Kg		DO	32-120	50
2,4-Dimethylphenol	1,187	ND	3731	ug/Kg		DO	32-120	50
1,2,4-Trichlorobenzene	3,372	ND	3731	ug/Kg		DO	33-120	50
4-Chloro-3-methylphenol	2,475	ND	3731	ug/Kg		DO	41-121	50
2,4,5-Trichlorophenol	1,699	ND	3731	ug/Kg		DO	40-120	50
Acenaphthene	2,901	ND	3731	ug/Kg		DO	37-120	50
4-Nitrophenol	9,479	ND	3731	ug/Kg		DO	20-141	50
2,4-Dinitrotoluene	158.9	ND	3731	ug/Kg		DO	33-128	50
Pentachlorophenol	0	ND	3731	ug/Kg		DO	28-132	50
Pyrene	3,097	ND	3731	ug/Kg		DO	39-135	50
Chrysene	3,000	ND	3731	ug/Kg		DO	37-135	50
Benzo(b)fluoranthene	3,067	ND	3731	ug/Kg		DO	34-139	50
Surrogates								
2-Fluorophenol	767.7		1990	ug/Kg		DO	29-120	50
Phenol-d6	1,122		1990	ug/Kg		DO	30-120	50
2,4,6-Tribromophenol	456.0		1990	ug/Kg		DO	32-120	50
Nitrobenzene-d5	1,301		1990	ug/Kg		DO	33-120	50
2-Fluorobiphenyl	1,479		1990	ug/Kg		DO	39-120	50
Terphenyl-d14	1,256		1990	ug/Kg		DO	44-125	50

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1128198**	**Batch:**	**333029**
Matrix (Source ID):	**Soil (501964-042)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1128198 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phenol	2,004	ND	3750	ug/Kg		DO	37-120		49	50
2-Chlorophenol	2,330	ND	3750	ug/Kg		DO	33-120		52	50
1,4-Dichlorobenzene	2,670	ND	3750	ug/Kg		DO	32-120		50	50
3-,4-Methylphenol	2,405	ND	3750	ug/Kg		DO	37-120		54	50
N-Nitroso-di-n-propylamine	2,728	ND	3750	ug/Kg		DO	32-120		50	50
2,4-Dimethylphenol	1,685	ND	3750	ug/Kg		DO	32-120		50	50
1,2,4-Trichlorobenzene	2,606	ND	3750	ug/Kg		DO	33-120		50	50
4-Chloro-3-methylphenol	1,853	ND	3750	ug/Kg		DO	41-121		43	50
2,4,5-Trichlorophenol	1,820	ND	3750	ug/Kg		DO	40-120		47	50
Acenaphthene	2,517	ND	3750	ug/Kg		DO	37-120		48	50
4-Nitrophenol	9,242	ND	3750	ug/Kg		DO	20-141		30	50
2,4-Dinitrotoluene	1,808	ND	3750	ug/Kg		DO	33-128		50	50
Pentachlorophenol	0	ND	3750	ug/Kg		DO	28-132		30	50
Pyrene	2,617	ND	3750	ug/Kg		DO	39-135		41	50
Chrysene	2,816	ND	3750	ug/Kg		DO	37-135		46	50
Benzo(b)fluoranthene	2,423	ND	3750	ug/Kg		DO	34-139		47	50
Surrogates										
2-Fluorophenol	811.9		2000	ug/Kg		DO	29-120			50
Phenol-d6	1,371		2000	ug/Kg		DO	30-120			50
2,4,6-Tribromophenol	375.6		2000	ug/Kg		DO	32-120			50
Nitrobenzene-d5	1,257		2000	ug/Kg		DO	33-120			50
2-Fluorobiphenyl	1,314		2000	ug/Kg		DO	39-120			50
Terphenyl-d14	1,265		2000	ug/Kg		DO	44-125			50

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1127559**	**Batch:**	**332802**
Matrix:	**Miscell.**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1127559 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Carbazole	ND		ug/Kg	250	02/12/24	02/12/24
1-Methylnaphthalene	ND		ug/Kg	250	02/12/24	02/12/24
Pyridine	ND		ug/Kg	250	02/12/24	02/12/24
N-Nitrosodimethylamine	ND		ug/Kg	250	02/12/24	02/12/24
Phenol	ND		ug/Kg	250	02/12/24	02/12/24
Aniline	ND		ug/Kg	250	02/12/24	02/12/24
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	02/12/24	02/12/24
2-Chlorophenol	ND		ug/Kg	250	02/12/24	02/12/24
1,3-Dichlorobenzene	ND		ug/Kg	250	02/12/24	02/12/24
1,4-Dichlorobenzene	ND		ug/Kg	250	02/12/24	02/12/24
Benzyl alcohol	ND		ug/Kg	250	02/12/24	02/12/24
1,2-Dichlorobenzene	ND		ug/Kg	250	02/12/24	02/12/24
2-Methylphenol	ND		ug/Kg	250	02/12/24	02/12/24
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	02/12/24	02/12/24
3-,4-Methylphenol	ND		ug/Kg	400	02/12/24	02/12/24
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	02/12/24	02/12/24
Hexachloroethane	ND		ug/Kg	250	02/12/24	02/12/24
Nitrobenzene	ND		ug/Kg	1,200	02/12/24	02/12/24
Isophorone	ND		ug/Kg	250	02/12/24	02/12/24
2-Nitrophenol	ND		ug/Kg	250	02/12/24	02/12/24
2,4-Dimethylphenol	ND		ug/Kg	250	02/12/24	02/12/24
Benzoic acid	ND		ug/Kg	1,200	02/12/24	02/12/24
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	02/12/24	02/12/24
2,4-Dichlorophenol	ND		ug/Kg	250	02/12/24	02/12/24
1,2,4-Trichlorobenzene	ND		ug/Kg	250	02/12/24	02/12/24
Naphthalene	ND		ug/Kg	250	02/12/24	02/12/24
4-Chloroaniline	ND		ug/Kg	250	02/12/24	02/12/24
Hexachlorobutadiene	ND		ug/Kg	250	02/12/24	02/12/24
4-Chloro-3-methylphenol	ND		ug/Kg	250	02/12/24	02/12/24
2-Methylnaphthalene	ND		ug/Kg	250	02/12/24	02/12/24
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	02/12/24	02/12/24
2,4,6-Trichlorophenol	ND		ug/Kg	250	02/12/24	02/12/24
2,4,5-Trichlorophenol	ND		ug/Kg	250	02/12/24	02/12/24
2-Chloronaphthalene	ND		ug/Kg	250	02/12/24	02/12/24
2-Nitroaniline	ND		ug/Kg	250	02/12/24	02/12/24
Dimethylphthalate	ND		ug/Kg	250	02/12/24	02/12/24
Acenaphthylene	ND		ug/Kg	250	02/12/24	02/12/24
2,6-Dinitrotoluene	ND		ug/Kg	250	02/12/24	02/12/24
3-Nitroaniline	ND		ug/Kg	250	02/12/24	02/12/24
Acenaphthene	ND		ug/Kg	250	02/12/24	02/12/24
2,4-Dinitrophenol	ND		ug/Kg	1,200	02/12/24	02/12/24
4-Nitrophenol	ND		ug/Kg	250	02/12/24	02/12/24
Dibenzofuran	ND		ug/Kg	250	02/12/24	02/12/24
2,4-Dinitrotoluene	ND		ug/Kg	250	02/12/24	02/12/24
Diethylphthalate	ND		ug/Kg	250	02/12/24	02/12/24
Fluorene	ND		ug/Kg	250	02/12/24	02/12/24
4-Chlorophenyl-phenylether	ND		ug/Kg	250	02/12/24	02/12/24

ENTHALPY ANALYTICAL

Batch QC

QC1127559 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
4-Nitroaniline	ND		ug/Kg	250	02/12/24	02/12/24
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	02/12/24	02/12/24
N-Nitrosodiphenylamine	ND		ug/Kg	250	02/12/24	02/12/24
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	02/12/24	02/12/24
4-Bromophenyl-phenylether	ND		ug/Kg	250	02/12/24	02/12/24
Hexachlorobenzene	ND		ug/Kg	250	02/12/24	02/12/24
Pentachlorophenol	ND		ug/Kg	1,200	02/12/24	02/12/24
Phenanthrene	ND		ug/Kg	250	02/12/24	02/12/24
Anthracene	ND		ug/Kg	250	02/12/24	02/12/24
Di-n-butylphthalate	ND		ug/Kg	250	02/12/24	02/12/24
Fluoranthene	ND		ug/Kg	250	02/12/24	02/12/24
Benzidine	ND		ug/Kg	1,200	02/12/24	02/12/24
Pyrene	ND		ug/Kg	250	02/12/24	02/12/24
Butylbenzylphthalate	ND		ug/Kg	250	02/12/24	02/12/24
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	02/12/24	02/12/24
Benzo(a)anthracene	ND		ug/Kg	250	02/12/24	02/12/24
Chrysene	ND		ug/Kg	250	02/12/24	02/12/24
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	02/12/24	02/12/24
Di-n-octylphthalate	ND		ug/Kg	250	02/12/24	02/12/24
Benzo(b)fluoranthene	ND		ug/Kg	250	02/12/24	02/12/24
Benzo(k)fluoranthene	ND		ug/Kg	250	02/12/24	02/12/24
Benzo(a)pyrene	ND		ug/Kg	250	02/12/24	02/12/24
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	02/12/24	02/12/24
Dibenz(a,h)anthracene	ND		ug/Kg	250	02/12/24	02/12/24
Benzo(g,h,i)perylene	ND		ug/Kg	250	02/12/24	02/12/24
Surrogates				**Limits**		
2-Fluorophenol	82%		%REC	29-120	02/12/24	02/12/24
Phenol-d6	81%		%REC	30-120	02/12/24	02/12/24
2,4,6-Tribromophenol	74%		%REC	32-120	02/12/24	02/12/24
Nitrobenzene-d5	83%		%REC	33-120	02/12/24	02/12/24
2-Fluorobiphenyl	86%		%REC	39-120	02/12/24	02/12/24
Terphenyl-d14	94%		%REC	44-125	02/12/24	02/12/24

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1127560**	**Batch:**	**332802**
Matrix:	**Miscell.**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1127560 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phenol	3,629	3733	ug/Kg	97%		42-120
2-Chlorophenol	3,514	3733	ug/Kg	94%		41-120
1,4-Dichlorobenzene	3,623	3733	ug/Kg	97%		36-120
3-,4-Methylphenol	3,774	3733	ug/Kg	101%		42-120
N-Nitroso-di-n-propylamine	3,785	3733	ug/Kg	101%		43-121
2,4-Dimethylphenol	2,579	3733	ug/Kg	69%		25-120
1,2,4-Trichlorobenzene	3,422	3733	ug/Kg	92%		38-120
4-Chloro-3-methylphenol	3,583	3733	ug/Kg	96%		40-125
2,4,5-Trichlorophenol	3,545	3733	ug/Kg	95%		40-124
Acenaphthene	3,272	3733	ug/Kg	88%		35-126
4-Nitrophenol	3,320	3733	ug/Kg	89%		24-128
2,4-Dinitrotoluene	3,656	3733	ug/Kg	98%		40-131
Pentachlorophenol	2,706	3733	ug/Kg	72%		35-120
Pyrene	3,715	3733	ug/Kg	100%		37-135
Chrysene	3,458	3733	ug/Kg	93%		38-132
Benzo(b)fluoranthene	3,552	3733	ug/Kg	95%		38-135
Surrogates						
2-Fluorophenol	1,934	1991	ug/Kg	97%		29-120
Phenol-d6	1,999	1991	ug/Kg	100%		30-120
2,4,6-Tribromophenol	1,829	1991	ug/Kg	92%		32-120
Nitrobenzene-d5	1,947	1991	ug/Kg	98%		33-120
2-Fluorobiphenyl	1,815	1991	ug/Kg	91%		39-120
Terphenyl-d14	1,886	1991	ug/Kg	95%		44-125

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1127561**	**Batch:**	**332802**
Matrix (Source ID):	**Miscell. (501828-001)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1127561 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phenol	62,160	ND	71430	ug/Kg	87%		37-120	19
2-Chlorophenol	67,950	ND	71430	ug/Kg	95%		33-120	19
1,4-Dichlorobenzene	70,350	ND	71430	ug/Kg	98%		32-120	19
3-,4-Methylphenol	68,110	ND	71430	ug/Kg	95%		37-120	19
N-Nitroso-di-n-propylamine	64,790	ND	71430	ug/Kg	91%		32-120	19
2,4-Dimethylphenol	49,520	ND	71430	ug/Kg	69%		32-120	19
1,2,4-Trichlorobenzene	69,630	ND	71430	ug/Kg	97%		33-120	19
4-Chloro-3-methylphenol	67,540	ND	71430	ug/Kg	95%		41-121	19
2,4,5-Trichlorophenol	75,770	ND	71430	ug/Kg	106%		40-120	19
Acenaphthene	59,790	ND	71430	ug/Kg	84%		37-120	19
4-Nitrophenol	51,800	ND	71430	ug/Kg	73%		20-141	19
2,4-Dinitrotoluene	73,530	ND	71430	ug/Kg	103%		33-128	19
Pentachlorophenol	43,210	ND	71430	ug/Kg	60%		28-132	19
Pyrene	73,910	ND	71430	ug/Kg	103%		39-135	19
Chrysene	67,110	ND	71430	ug/Kg	94%		37-135	19
Benzo(b)fluoranthene	70,570	ND	71430	ug/Kg	99%		34-139	19
Surrogates								
2-Fluorophenol	33,650		38100	ug/Kg	88%		29-120	19
Phenol-d6	32,590		38100	ug/Kg	86%		30-120	19
2,4,6-Tribromophenol	28,580		38100	ug/Kg	75%		32-120	19
Nitrobenzene-d5	31,780		38100	ug/Kg	83%		33-120	19
2-Fluorobiphenyl	35,060		38100	ug/Kg	92%		39-120	19
Terphenyl-d14	36,450		38100	ug/Kg	96%		44-125	19

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1127562**	**Batch:**	**332802**
Matrix (Source ID):	**Miscell. (501828-001)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1127562 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phenol	56,090	ND	66960	ug/Kg	84%		37-120	4	49	18
2-Chlorophenol	62,870	ND	66960	ug/Kg	94%		33-120	1	52	18
1,4-Dichlorobenzene	65,110	ND	66960	ug/Kg	97%		32-120	1	50	18
3-,4-Methylphenol	62,530	ND	66960	ug/Kg	93%		37-120	2	54	18
N-Nitroso-di-n-propylamine	60,120	ND	66960	ug/Kg	90%		32-120	1	50	18
2,4-Dimethylphenol	45,800	ND	66960	ug/Kg	68%		32-120	1	50	18
1,2,4-Trichlorobenzene	64,580	ND	66960	ug/Kg	96%		33-120	1	50	18
4-Chloro-3-methylphenol	64,500	ND	66960	ug/Kg	96%		41-121	2	43	18
2,4,5-Trichlorophenol	69,820	ND	66960	ug/Kg	104%		40-120	2	47	18
Acenaphthene	55,680	ND	66960	ug/Kg	83%		37-120	1	48	18
4-Nitrophenol	42,580	ND	66960	ug/Kg	64%		20-141	13	30	18
2,4-Dinitrotoluene	69,180	ND	66960	ug/Kg	103%		33-128	0	50	18
Pentachlorophenol	39,980	ND	66960	ug/Kg	60%		28-132	1	30	18
Pyrene	67,390	ND	66960	ug/Kg	101%		39-135	3	41	18
Chrysene	63,890	ND	66960	ug/Kg	95%		37-135	2	46	18
Benzo(b)fluoranthene	64,890	ND	66960	ug/Kg	97%		34-139	2	47	18
Surrogates										
2-Fluorophenol	30,780		35710	ug/Kg	86%		29-120			18
Phenol-d6	29,370		35710	ug/Kg	82%		30-120			18
2,4,6-Tribromophenol	26,670		35710	ug/Kg	75%		32-120			18
Nitrobenzene-d5	29,760		35710	ug/Kg	83%		33-120			18
2-Fluorobiphenyl	32,570		35710	ug/Kg	91%		39-120			18
Terphenyl-d14	33,750		35710	ug/Kg	95%		44-125			18

* Value is outside QC limits
DO Diluted Out
ND Not Detected

JONES ENVIRONMENTAL, INC.
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11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

05 February 2024

Waterstone Environmental
2936 East Coronado Street
Anaheim, CA 92806

Re: Solstra - Solomon Hills

Enclosed are the results of analyses for samples received by the laboratory on 01/31/24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colby Wakeman
Lab Director

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-61-10	J240260-001	Soil Vapor	01/31/2024 08:59	01/31/2024 04:54
SV-61-15	J240260-002	Soil Vapor	01/31/2024 09:11	01/31/2024 04:54
SV-61-15 REP	J240260-003	Soil Vapor	01/31/2024 09:28	01/31/2024 04:54
SV-63-10	J240260-004	Soil Vapor	01/31/2024 09:19	01/31/2024 04:54
SV-63-20	J240260-005	Soil Vapor	01/31/2024 09:20	01/31/2024 04:54
SV-78-10	J240260-006	Soil Vapor	01/31/2024 09:53	01/31/2024 04:54
SV-SEB1-10	J240260-007	Soil Vapor	01/31/2024 10:11	01/31/2024 04:54
SV-6-10	J240260-008	Soil Vapor	01/31/2024 10:54	01/31/2024 04:54
SV-6-20	J240260-009	Soil Vapor	01/31/2024 10:56	01/31/2024 04:54
SV-TF3-10	J240260-010	Soil Vapor	01/31/2024 11:19	01/31/2024 04:54
SV-TF4-10	J240260-011	Soil Vapor	01/31/2024 11:22	01/31/2024 04:54
SV-FEB1-10	J240260-012	Soil Vapor	01/31/2024 11:53	01/31/2024 04:54
SV-FEB1-15	J240260-013	Soil Vapor	01/31/2024 11:55	01/31/2024 04:54
SV-TH1-10	J240260-014	Soil Vapor	01/31/2024 12:26	01/31/2024 04:54
SV-AD2-10	J240260-015	Soil Vapor	01/31/2024 14:00	01/31/2024 04:54
SV-AD2-20	J240260-016	Soil Vapor	01/31/2024 14:05	01/31/2024 04:54

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Colby Wakeman
Lab Director

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

DETECTIONS SUMMARY

Sample ID: SV-61-10 **Laboratory ID:** J240260-001

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	19	8	µg/m3	EPA 8260	
Benzene	25	8	µg/m3	EPA 8260	
Ethylbenzene	21	8	µg/m3	EPA 8260	
m,p-Xylene	74	16	µg/m3	EPA 8260	
o-Xylene	24	8	µg/m3	EPA 8260	
Toluene	221	8	µg/m3	EPA 8260	

Sample ID: SV-61-15 **Laboratory ID:** J240260-002

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	16	8	µg/m3	EPA 8260	
Benzene	67	8	µg/m3	EPA 8260	
Ethylbenzene	23	8	µg/m3	EPA 8260	
m,p-Xylene	71	16	µg/m3	EPA 8260	
o-Xylene	24	8	µg/m3	EPA 8260	
Toluene	300	8	µg/m3	EPA 8260	
Trichloroethene	46	8	µg/m3	EPA 8260	

Sample ID: SV-61-15 REP **Laboratory ID:** J240260-003

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	16	8	µg/m3	EPA 8260	
Benzene	74	8	µg/m3	EPA 8260	
Ethylbenzene	23	8	µg/m3	EPA 8260	
m,p-Xylene	67	16	µg/m3	EPA 8260	
o-Xylene	22	8	µg/m3	EPA 8260	
Tetrachloroethene	9	8	µg/m3	EPA 8260	
Toluene	313	8	µg/m3	EPA 8260	
Trichloroethene	76	8	µg/m3	EPA 8260	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

DETECTIONS SUMMARY

Sample ID: SV-63-10 **Laboratory ID:** J240260-004

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	13	8	µg/m3	EPA 8260	
Benzene	12	8	µg/m3	EPA 8260	
Ethylbenzene	14	8	µg/m3	EPA 8260	
m,p-Xylene	52	16	µg/m3	EPA 8260	
o-Xylene	18	8	µg/m3	EPA 8260	
Toluene	100	8	µg/m3	EPA 8260	

Sample ID: SV-63-20 **Laboratory ID:** J240260-005

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	1220	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	301	8	µg/m3	EPA 8260	
4-Isopropyltoluene	483	8	µg/m3	EPA 8260	
Benzene	561	8	µg/m3	EPA 8260	
Ethylbenzene	2520	8	µg/m3	EPA 8260	
Isopropylbenzene	2380	8	µg/m3	EPA 8260	
m,p-Xylene	3400	16	µg/m3	EPA 8260	
n-Propylbenzene	787	8	µg/m3	EPA 8260	
o-Xylene	727	8	µg/m3	EPA 8260	
sec-Butylbenzene	1210	12	µg/m3	EPA 8260	
Toluene	959	8	µg/m3	EPA 8260	

Sample ID: SV-78-10 **Laboratory ID:** J240260-006

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	2960	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	23	8	µg/m3	EPA 8260	
4-Isopropyltoluene	602	8	µg/m3	EPA 8260	
Benzene	553	8	µg/m3	EPA 8260	

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DETECTIONS SUMMARY

Sample ID: SV-78-10 **Laboratory ID:** J240260-006

Analyte	Result	Reporting Limit	Units	Method	Notes
Ethylbenzene	6540	8	µg/m3	EPA 8260	
Isopropylbenzene	2900	8	µg/m3	EPA 8260	
m,p-Xylene	2540	16	µg/m3	EPA 8260	
Naphthalene	67	40	µg/m3	EPA 8260	
n-Butylbenzene	220	12	µg/m3	EPA 8260	
n-Propylbenzene	2290	8	µg/m3	EPA 8260	
o-Xylene	48	8	µg/m3	EPA 8260	
sec-Butylbenzene	1200	12	µg/m3	EPA 8260	
Toluene	160	8	µg/m3	EPA 8260	

Sample ID: SV-SEB1-10 **Laboratory ID:** J240260-007

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	40	8	µg/m3	EPA 8260	
4-Isopropyltoluene	10	8	µg/m3	EPA 8260	
Benzene	12	8	µg/m3	EPA 8260	
Ethylbenzene	56	8	µg/m3	EPA 8260	
Isopropylbenzene	26	8	µg/m3	EPA 8260	
m,p-Xylene	75	16	µg/m3	EPA 8260	
n-Propylbenzene	27	8	µg/m3	EPA 8260	
o-Xylene	24	8	µg/m3	EPA 8260	
sec-Butylbenzene	16	12	µg/m3	EPA 8260	
Styrene	9	8	µg/m3	EPA 8260	
Toluene	52	8	µg/m3	EPA 8260	

Sample ID: SV-6-10 **Laboratory ID:** J240260-008

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	37	8	µg/m3	EPA 8260	

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DETECTIONS SUMMARY

Sample ID: SV-6-10 **Laboratory ID:** J240260-008

Analyte	Result	Reporting Limit	Units	Method	Notes
1,3,5-Trimethylbenzene	10	8	µg/m3	EPA 8260	
4-Isopropyltoluene	13	8	µg/m3	EPA 8260	
Benzene	9	8	µg/m3	EPA 8260	
Ethylbenzene	45	8	µg/m3	EPA 8260	
Isopropylbenzene	13	8	µg/m3	EPA 8260	
m,p-Xylene	98	16	µg/m3	EPA 8260	
n-Propylbenzene	17	8	µg/m3	EPA 8260	
o-Xylene	32	8	µg/m3	EPA 8260	
Styrene	10	8	µg/m3	EPA 8260	
Toluene	134	8	µg/m3	EPA 8260	

Sample ID: SV-6-20 **Laboratory ID:** J240260-009

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	27	8	µg/m3	EPA 8260	
4-Isopropyltoluene	10	8	µg/m3	EPA 8260	
Ethylbenzene	31	8	µg/m3	EPA 8260	
Isopropylbenzene	14	8	µg/m3	EPA 8260	
m,p-Xylene	75	16	µg/m3	EPA 8260	
n-Propylbenzene	12	8	µg/m3	EPA 8260	
o-Xylene	24	8	µg/m3	EPA 8260	
Toluene	68	8	µg/m3	EPA 8260	

Sample ID: SV-TF3-10 **Laboratory ID:** J240260-010

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	12	8	µg/m3	EPA 8260	
Benzene	11	8	µg/m3	EPA 8260	
Ethylbenzene	9	8	µg/m3	EPA 8260	

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Anaheim, CA 92806	Project Manager:	02/05/24 7:28

DETECTIONS SUMMARY

Sample ID: SV-TF3-10 **Laboratory ID:** J240260-010

Analyte	Result	Reporting Limit	Units	Method	Notes
m,p-Xylene	16	16	µg/m3	EPA 8260	
Toluene	33	8	µg/m3	EPA 8260	

Sample ID: SV-TF4-10 **Laboratory ID:** J240260-011

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	9	8	µg/m3	EPA 8260	
Benzene	9	8	µg/m3	EPA 8260	
m,p-Xylene	19	16	µg/m3	EPA 8260	
Toluene	30	8	µg/m3	EPA 8260	

Sample ID: SV-FEB1-10 **Laboratory ID:** J240260-012

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	9	8	µg/m3	EPA 8260	
Benzene	8	8	µg/m3	EPA 8260	
Toluene	30	8	µg/m3	EPA 8260	

Sample ID: SV-FEB1-15 **Laboratory ID:** J240260-013

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	16	8	µg/m3	EPA 8260	
Toluene	20	8	µg/m3	EPA 8260	

Sample ID: SV-TH1-10 **Laboratory ID:** J240260-014

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	9200	2400	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	4770	2400	µg/m3	EPA 8260	
Benzene	232000	2400	µg/m3	EPA 8260	
Ethylbenzene	35600	2400	µg/m3	EPA 8260	

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Lab Director

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2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

DETECTIONS SUMMARY

Sample ID: SV-TH1-10 **Laboratory ID:** J240260-014

Analyte	Result	Reporting Limit	Units	Method	Notes
Isopropylbenzene	8760	2400	µg/m3	EPA 8260	
m,p-Xylene	57100	4800	µg/m3	EPA 8260	
n-Propylbenzene	5900	2400	µg/m3	EPA 8260	
o-Xylene	14100	2400	µg/m3	EPA 8260	
Toluene	55900	2400	µg/m3	EPA 8260	

Sample ID: SV-AD2-10 **Laboratory ID:** J240260-015

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	19	8	µg/m3	EPA 8260	
Benzene	43	8	µg/m3	EPA 8260	
Ethylbenzene	20	8	µg/m3	EPA 8260	
m,p-Xylene	59	16	µg/m3	EPA 8260	
o-Xylene	19	8	µg/m3	EPA 8260	
Toluene	106	8	µg/m3	EPA 8260	

Sample ID: SV-AD2-20 **Laboratory ID:** J240260-016

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	9	8	µg/m3	EPA 8260	
Benzene	17	8	µg/m3	EPA 8260	
Toluene	35	8	µg/m3	EPA 8260	
Trichloroethene	9	8	µg/m3	EPA 8260	

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Lab Director

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-61-10
J240260-001(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	25	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	21	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	221	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	19	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	74	16	µg/m3	"	"	"	"	

Jones Environmental, Inc.



Colby Wakeman
Lab Director

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-61-10
J240260-001(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	24	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*95.13 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*92.06 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*90.22 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-61-15
J240260-002(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	67	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	23	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	300	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	46	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	16	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	71	16	µg/m3	"	"	"	"	

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Lab Director

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SANTA FE SPRINGS, CA 90670
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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-61-15
J240260-002(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	24	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*95.03 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*93.17 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*91.38 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-61-15 REP
J240260-003(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	74	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	23	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	9	8	µg/m3	"	"	"	"	
Toluene	313	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	76	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	16	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	67	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-61-15 REP
J240260-003(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	22	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*95.62 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*94.05 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*92.06 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-63-10
J240260-004(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	12	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	14	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	100	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	13	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	52	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-63-10
J240260-004(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	18	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.37 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*93.28 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*92.61 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-63-20
J240260-005(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	561	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	1210	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	2520	8	µg/m3	"	"	"	"	
Isopropylbenzene	2380	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	483	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	787	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	959	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	1220	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	301	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	3400	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-63-20
J240260-005(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	727	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*105.47 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*84.56 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*94.33 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-78-10
J240260-006(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	553	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	220	12	µg/m3	"	"	"	"	
sec-Butylbenzene	1200	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	6540	8	µg/m3	"	"	"	"	
Isopropylbenzene	2900	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	602	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	67	40	µg/m3	"	"	"	"	
n-Propylbenzene	2290	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	160	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	2960	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	23	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	2540	16	µg/m3	"	"	"	"	

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SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-78-10
J240260-006(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	48	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*195.91 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*93.49 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*110.23 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-SEB1-10
J240260-007(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	12	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	16	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	56	8	µg/m3	"	"	"	"	
Isopropylbenzene	26	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	10	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	27	8	µg/m3	"	"	"	"	
Styrene	9	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	52	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	40	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	75	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-SEB1-10
J240260-007(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	24	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*94.26 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*86.16 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*93.50 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-6-10
J240260-008(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	9	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	45	8	µg/m3	"	"	"	"	
Isopropylbenzene	13	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	13	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	17	8	µg/m3	"	"	"	"	
Styrene	10	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	134	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	37	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	10	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	98	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-6-10
J240260-008(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	32	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.65 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*83.83 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*93.71 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-6-20
J240260-009(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	ND	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	31	8	µg/m3	"	"	"	"	
Isopropylbenzene	14	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	10	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	12	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	68	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	27	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	75	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-6-20
J240260-009(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	24	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.36 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*86.76 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*93.19 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-TF3-10
J240260-010(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	11	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	9	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	33	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	12	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	16	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-TF3-10
J240260-010(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	ND	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.91 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*91.52 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*91.89 %*	*60 - 140*						

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JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-TF4-10
J240260-011(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	9	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	ND	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	30	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	9	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	19	16	µg/m3	"	"	"	"	

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SANTA FE SPRINGS, CA 90670
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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-TF4-10
J240260-011(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	ND	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.62 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*88.53 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*92.62 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-FEB1-10
J240260-012(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	8	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	ND	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	30	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	9	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	ND	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-FEB1-10
J240260-012(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	ND	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.15 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*88.38 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*92.25 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-FEB1-15
J240260-013(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	16	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	ND	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	20	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	ND	16	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-FEB1-15
J240260-013(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	ND	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.28 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*89.08 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*94.21 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-TH1-10
J240260-014(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	232000	2400	µg/m3	300	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	2400	µg/m3	"	"	"	"	
Bromoform	ND	2400	µg/m3	"	"	"	"	
n-Butylbenzene	ND	3600	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	3600	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	3600	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	2400	µg/m3	"	"	"	"	
Chlorobenzene	ND	2400	µg/m3	"	"	"	"	
Chloroform	ND	2400	µg/m3	"	"	"	"	
Dibromochloromethane	ND	2400	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2400	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	4800	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	4800	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	4800	µg/m3	"	"	"	"	
Freon 12	ND	4800	µg/m3	"	"	"	"	
Freon 11	ND	4800	µg/m3	"	"	"	"	
Freon 113	ND	4800	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	2400	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	2400	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	2400	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	2400	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	2400	µg/m3	"	"	"	"	
Ethylbenzene	35600	2400	µg/m3	"	"	"	"	
Isopropylbenzene	8760	2400	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	2400	µg/m3	"	"	"	"	
Methylene chloride	ND	2400	µg/m3	"	"	"	"	
Naphthalene	ND	12000	µg/m3	"	"	"	"	
n-Propylbenzene	5900	2400	µg/m3	"	"	"	"	
Styrene	ND	2400	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2400	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4800	µg/m3	"	"	"	"	
Tetrachloroethene	ND	2400	µg/m3	"	"	"	"	
Toluene	55900	2400	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	2400	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	2400	µg/m3	"	"	"	"	
Trichloroethene	ND	2400	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	9200	2400	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	4770	2400	µg/m3	"	"	"	"	
Vinyl chloride	ND	2400	µg/m3	"	"	"	"	
m,p-Xylene	57100	4800	µg/m3	"	"	"	"	

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-TH1-10
J240260-014(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	14100	2400	µg/m3	300	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	12000	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	12000	µg/m3	"	"	"	"	
Di-isopropylether	ND	12000	µg/m3	"	"	"	"	
tert-amylmethylether	ND	12000	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	120000	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	24000	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	24000	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	24000	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*98.89 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*85.85 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*94.21 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-AD2-10
J240260-015(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	43	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	20	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	106	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	ND	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	19	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	59	16	µg/m3	"	"	"	"	

Jones Environmental, Inc.



Colby Wakeman
Lab Director

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JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-AD2-10
J240260-015(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	19	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*94.77 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*87.86 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*92.81 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-AD2-20
J240260-016(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
Benzene	17	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"	"	"	
Bromoform	ND	8	µg/m3	"	"	"	"	
n-Butylbenzene	ND	12	µg/m3	"	"	"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"	"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"	"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"	"	"	
Chlorobenzene	ND	8	µg/m3	"	"	"	"	
Chloroform	ND	8	µg/m3	"	"	"	"	
Dibromochloromethane	ND	8	µg/m3	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"	"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"	"	"	
Freon 12	ND	16	µg/m3	"	"	"	"	
Freon 11	ND	16	µg/m3	"	"	"	"	
Freon 113	ND	16	µg/m3	"	"	"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"	"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"	"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"	"	"	
Ethylbenzene	ND	8	µg/m3	"	"	"	"	
Isopropylbenzene	ND	8	µg/m3	"	"	"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"	"	"	
Methylene chloride	ND	8	µg/m3	"	"	"	"	
Naphthalene	ND	40	µg/m3	"	"	"	"	
n-Propylbenzene	ND	8	µg/m3	"	"	"	"	
Styrene	ND	8	µg/m3	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"	"	"	
Tetrachloroethene	ND	8	µg/m3	"	"	"	"	
Toluene	35	8	µg/m3	"	"	"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"	"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"	"	"	
Trichloroethene	9	8	µg/m3	"	"	"	"	
1,2,4-Trimethylbenzene	9	8	µg/m3	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8	µg/m3	"	"	"	"	
Vinyl chloride	ND	8	µg/m3	"	"	"	"	
m,p-Xylene	ND	16	µg/m3	"	"	"	"	

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SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

SV-AD2-20
J240260-016(Soil Vapor)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyzed	Method	Notes
Standard ug/m3 by EPA 8260								
o-Xylene	ND	8	µg/m3	1	QC2402017	01/31/24	EPA 8260	
Methyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"	"	"	
Di-isopropylether	ND	40	µg/m3	"	"	"	"	
tert-amylmethylether	ND	40	µg/m3	"	"	"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"	"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"	"	"	
n-Heptane (LCC)	ND	80	µg/m3	"	"	"	"	
Surrogate: Toluene-d8	*93.73 %*	*60 - 140*						
Surrogate: Dibromofluoromethane	*85.10 %*	*60 - 140*						
Surrogate: 4-Bromofluorobenzene	*93.32 %*	*60 - 140*						

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

Standard ug/m3 by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2402017 - EPA 8260										
CCV 1										
Benzene	11	8	%	10		106	80 - 120		120	
Chlorobenzene	11	8	%	10		110	80 - 120		120	
1,1-Dichloroethene	9	8	%	10		90	80 - 120		120	
cis-1,2-Dichloroethene	9	8	%	10		94	80 - 120		120	
Ethylbenzene	11	8	%	10		112	80 - 120		120	
Tetrachloroethene	11	8	%	10		114	80 - 120		120	
Toluene	11	8	%	10		107	80 - 120		120	
1,1,1-Trichloroethane	10	8	%	10		103	80 - 120		120	
Trichloroethene	10	8	%	10		97	80 - 120		120	
1,2,4-Trimethylbenzene	11	8	%	10		111	80 - 120		120	
Vinyl chloride	10	8	%	10		101	80 - 120		120	
LCS 1										
Benzene	2.67	8	%	2.5		107	70 - 130			
Chlorobenzene	2.71	8	%	2.5		108	70 - 130			
1,1-Dichloroethene	2.45	8	%	2.5		98	60 - 140			
cis-1,2-Dichloroethene	2.36	8	%	2.5		94	70 - 130			
Ethylbenzene	2.75	8	%	2.5		110	70 - 130			
Tetrachloroethene	2.67	8	%	2.5		107	70 - 130			
Toluene	2.69	8	%	2.5		108	70 - 130			
1,1,1-Trichloroethane	2.34	8	%	2.5		94	70 - 130			
Trichloroethene	2.47	8	%	2.5		99	70 - 130			
1,2,4-Trimethylbenzene	2.42	8	%	2.5		97	70 - 130			
Vinyl chloride	2.07	8	%	2.5		83	60 - 140			
Surrogate: Toluene-d8		*94.06 %*	*60 - 140*							
Surrogate: Dibromofluoromethane		*97.79 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene		*96.42 %*	*60 - 140*							
LCSD 1										
Benzene	2.59	8	%	2.5		103		3.23		
Chlorobenzene	2.68	8	%	2.5		107		1.23		
1,1-Dichloroethene	2.38	8	%	2.5		95		2.97		
cis-1,2-Dichloroethene	2.24	8	%	2.5		90		4.88		
Ethylbenzene	2.60	8	%	2.5		104		5.69		
Tetrachloroethene	2.62	8	%	2.5		105		1.78		
Toluene	2.55	8	%	2.5		102		5.20		
1,1,1-Trichloroethane	2.29	8	%	2.5		92		2.09		
Trichloroethene	2.47	8	%	2.5		99		0.22		

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

Standard ug/m3 by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2402017 - EPA 8260										
LCSD 1										
1,2,4-Trimethylbenzene	2.45	8	%	2.5		98		1.12		
Vinyl chloride	1.79	8	%	2.5		72		14.66		
Surrogate: Toluene-d8		*93.06 %*	*60 - 140*							
Surrogate: Dibromofluoromethane		*98.56 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene		*93.35 %*	*60 - 140*							
Method Blank 1										
Benzene	ND	8	µg/m3							
Bromodichloromethane	ND	8	µg/m3							
Bromoform	ND	8	µg/m3							
n-Butylbenzene	ND	12	µg/m3							
sec-Butylbenzene	ND	12	µg/m3							
tert-Butylbenzene	ND	12	µg/m3							
Carbon tetrachloride	ND	8	µg/m3							
Chlorobenzene	ND	8	µg/m3							
Chloroform	ND	8	µg/m3							
Dibromochloromethane	ND	8	µg/m3							
1,2-Dibromoethane (EDB)	ND	8	µg/m3							
1,2-Dichlorobenzene	ND	16	µg/m3							
1,3-Dichlorobenzene	ND	16	µg/m3							
1,4-Dichlorobenzene	ND	16	µg/m3							
Freon 12	ND	16	µg/m3							
Freon 11	ND	16	µg/m3							
Freon 113	ND	16	µg/m3							
1,1-Dichloroethane	ND	8	µg/m3							
1,2-Dichloroethane	ND	8	µg/m3							
1,1-Dichloroethene	ND	8	µg/m3							
cis-1,2-Dichloroethene	ND	8	µg/m3							
trans-1,2-Dichloroethene	ND	8	µg/m3							
Ethylbenzene	ND	8	µg/m3							
Isopropylbenzene	ND	8	µg/m3							
4-Isopropyltoluene	ND	8	µg/m3							
Methylene chloride	ND	8	µg/m3							
Naphthalene	ND	40	µg/m3							
n-Propylbenzene	ND	8	µg/m3							
Styrene	ND	8	µg/m3							
1,1,1,2-Tetrachloroethane	ND	8	µg/m3							

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

Standard ug/m3 by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2402017 - EPA 8260										
Method Blank 1										
1,1,2,2-Tetrachloroethane	ND	16	µg/m3							
Tetrachloroethene	ND	8	µg/m3							
Toluene	ND	8	µg/m3							
1,1,1-Trichloroethane	ND	8	µg/m3							
1,1,2-Trichloroethane	ND	8	µg/m3							
Trichloroethene	ND	8	µg/m3							
1,2,4-Trimethylbenzene	ND	8	µg/m3							
1,3,5-Trimethylbenzene	ND	8	µg/m3							
Vinyl chloride	ND	8	µg/m3							
m,p-Xylene	ND	16	µg/m3							
o-Xylene	ND	8	µg/m3							
Methyl-tert-butylether	ND	40	µg/m3							
Ethyl-tert-butylether	ND	40	µg/m3							
Di-isopropylether	ND	40	µg/m3							
tert-amylmethylether	ND	40	µg/m3							
tert-Butylalcohol	ND	400	µg/m3							
n-Hexane (LCC)	ND	80	µg/m3							
n-Pentane (LCC)	ND	80	µg/m3							
n-Heptane (LCC)	ND	80	µg/m3							
Surrogate: Toluene-d8		*93.93 %*	*60 - 140*							
Surrogate: Dibromofluoromethane		*96.31 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene		*91.86 %*	*60 - 140*							
Sample Blank 1										
Benzene	ND	8	µg/m3							
Bromodichloromethane	ND	8	µg/m3							
Bromoform	ND	8	µg/m3							
n-Butylbenzene	ND	12	µg/m3							
sec-Butylbenzene	ND	12	µg/m3							
tert-Butylbenzene	ND	12	µg/m3							
Carbon tetrachloride	ND	8	µg/m3							
Chlorobenzene	ND	8	µg/m3							
Chloroform	ND	8	µg/m3							
Dibromochloromethane	ND	8	µg/m3							
1,2-Dibromoethane (EDB)	ND	8	µg/m3							
1,2-Dichlorobenzene	ND	16	µg/m3							
1,3-Dichlorobenzene	ND	16	µg/m3							

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

Standard ug/m3 by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2402017 - EPA 8260										
Sample Blank 1										
1,4-Dichlorobenzene	ND	16	µg/m3							
Freon 12	ND	16	µg/m3							
Freon 11	ND	16	µg/m3							
Freon 113	ND	16	µg/m3							
1,1-Dichloroethane	ND	8	µg/m3							
1,2-Dichloroethane	ND	8	µg/m3							
1,1-Dichloroethene	ND	8	µg/m3							
cis-1,2-Dichloroethene	ND	8	µg/m3							
trans-1,2-Dichloroethene	ND	8	µg/m3							
Ethylbenzene	ND	8	µg/m3							
Isopropylbenzene	ND	8	µg/m3							
4-Isopropyltoluene	ND	8	µg/m3							
Methylene chloride	ND	8	µg/m3							
Naphthalene	ND	40	µg/m3							
n-Propylbenzene	ND	8	µg/m3							
Styrene	ND	8	µg/m3							
1,1,1,2-Tetrachloroethane	ND	8	µg/m3							
1,1,2,2-Tetrachloroethane	ND	16	µg/m3							
Tetrachloroethene	ND	8	µg/m3							
Toluene	ND	8	µg/m3							
1,1,1-Trichloroethane	ND	8	µg/m3							
1,1,2-Trichloroethane	ND	8	µg/m3							
Trichloroethene	ND	8	µg/m3							
1,2,4-Trimethylbenzene	ND	8	µg/m3							
1,3,5-Trimethylbenzene	ND	8	µg/m3							
Vinyl chloride	ND	8	µg/m3							
m,p-Xylene	ND	16	µg/m3							
o-Xylene	ND	8	µg/m3							
Methyl-tert-butylether	ND	40	µg/m3							
Ethyl-tert-butylether	ND	40	µg/m3							
Di-isopropylether	ND	40	µg/m3							
tert-amylmethylether	ND	40	µg/m3							
tert-Butylalcohol	ND	400	µg/m3							
n-Hexane (LCC)	ND	80	µg/m3							
n-Pentane (LCC)	ND	80	µg/m3							
n-Heptane (LCC)	ND	80	µg/m3							

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

Standard ug/m3 by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2402017 - EPA 8260										
Sample Blank 1										
Surrogate: Toluene-d8		*94.23 %*	*60 - 140*							
Surrogate: Dibromofluoromethane		*96.66 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene		*92.56 %*	*60 - 140*							

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Waterstone Environmental	Project: Solstra - Solomon Hills	
2936 East Coronado Street	Project Number:	Reported
Anaheim, CA 92806	Project Manager:	02/05/24 7:28

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
E	Estimated Concentration; concentration exceeds calibration ra
LCC	Leak Check Compound
1	Recovery outside of acceptable limits. LCS/LCSD recoveries and %RSD were within QC limits, therefore data was a
SMSR	Sample matrix prevented adequate surrogate recovery.
J	Value less than PQL but greater than
HHSR	High hydrocarbon concentration in this sample prevented adequate surrogate recovery.

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JONES ENVIRONMENTAL, INC.
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Santa Fe Springs, CA 90670
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Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: Waterstone Environmental, Inc.

Project Name: Solstra - Solomon Hills

Project Address: 1555 Orcutt Hill Road, Orcutt, CA 92455

Email:

Phone:

Report To: Mark Shifflett

Sampler: Casey Ellis & Annalise O'toole

Date: 1/31/2024

Client Project #:

Purge Number: □ 1P ☒ 3P □ 7P □ 10P

Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

LAB USE ONLY

Jones Project #: J240260

Page 1 of 2

Sample Container: GASTIGHT GLASS SYRINGE

If different than above, see Notes.

Turn Around Requested:
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- ☒ Mobile Lab

Tracer:
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- □ Isopropyl Alcohol
- □ n-Propyl Alcohol
- □ 1,1-DFA

Reporting Limits: ☒ Standard □ Low Level* □ Ultra-Low* *surcharge for these limits

Units: ug/m3

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics			Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
SV-61-10	3	1940	1/31/24	8:59	9:01	J240260-001	200	BS	M100.106	SG	X				<2	1	
SV-61-15	3	2020	1/31/24	9:11	9:16	J240260-002	200	JACKSON.1	M100.107	SG	X				<2	1	
SV-61-15 REP	-	-	1/31/24	9:28	9:32	J240260-003	-	-	M100.107	SG	X				<2	1	
SV-63-10	3	1940	1/31/24	9:19	9:48	J240260-004	200	BS	M100.010	SG	X				<2	1	
SV-63-20	3	2100	1/31/24	9:20	10:05	J240260-005	200	JACKSON.1	M100.600	SG	X				10	1	
SV-78-10	3	1940	1/31/24	9:53	10:38	J240260-006	200	BS	M100.010	SG	X				<2	1	
SVSEB-1-10	3	1940	1/31/24	10:11	10:55	J240260-007	200	JACKSON.1	M100.600	SG	X				<2	1	
SV-6-10	3	1940	1/31/24	10:54	11:11	J240260-008	200	BS	M100.010	SG	X				<2	1	
SV-6-20	3	2100	1/31/24	10:56	11:28	J240260-009	200	JACKSON.1	M100.600	SG	X				<2	1	
SV-TF3-10	3	1940	1/31/24	11:19	11:45	J240260-010	200	BS	M100.010	SG	X				<2	1	

Representative Signature	Printed Name	Laboratory Signature	Printed Name		
			CASEY ELLIS	10	Total Number of Containers
Company	**Date**	**Time**	**Company**	**Date**	**Time**
WATERSTONE ENVIRONMENTAL, INC.	1/31/2024	15:30	JONES ENVIRONMENTAL, INC.	1/31/2024	15:30
Representative Signature	**Printed Name**		**Laboratory Signature**	**Printed Name**	
Company	**Date**	**Time**	**Company**	**Date**	**Time**

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: **Waterstone Environmental, Inc.**

Date: 1/31/2024

Purge Number: □ 1P ☒ 3P □ 7P □ 10P

Report Options: EDD ____ EDF* - 10% Surcharge____

Project Name: **Solstra - Solomon Hills**

Client Project #:

Shut-In Test: (Y) / N

*Global ID _____

LAB USE ONLY
Jones Project # **J240260**

Page 2 of 2

Project Address: **1555 Orcutt Hill Road, Orcutt, CA 92455**

Email:

Phone:

Report To: **Mark Shifflett**

Sampler: **Casey Ellis & Annalise O'toole**

Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Turn Around Requested
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- ☒ Mobile Lab

Tracer
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- □ Isopropyl Alcohol
- □ n-Propyl Alcohol
- □ 1,1-DFA

Reporting Limits
☒ Standard □ Low Level* □ Ultra-Low*
*surcharge for these limits

Units: µg/m³

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics			Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
SV-TF4-10	3	1940	1/31/24	11:22	12:01	J240260-011	200	BS	M100.010	SG	X				<2	1	
SV-FEB1-10	3	1940	1/31/24	11:53	12:18	J240260-012	200	BS	M100.010	SG	X				<2	1	
SV-FEB1-15	3	2020	1/31/24	11:55	12:34	J240260-013	200	JACKSON.1	M100.600	SG	X				<2	1	
SV-TH1-10	3	1940	1/31/24	12:26	12:50	J240260-014	200	BS	M100.010	SG	X				<2	1	
SV-AD2-10	3	1940	1/31/24	14:00	14:41	J240260-015	200	BS	M100.106	SG	X				<2	1	
SV-AD2-20	3	2100	1/31/24	14:05	14:56	J240260-016	200	JACKSON.1	M100.107	SG	X				<2	1	
SV-63-20 DILUTION	-	-	1/31/24	9:20	10:21	-	-	-	M100.600	SG	X				10	1	
SV-TH1-10 DILUTION	-	-	1/31/24	12:26	15:14	-	-	-	M100.010	SG	X				<2	1	
SV-78-20	-	-	1/31/24	-	-	-	-	-	M100.600	-	-				>100	-	NO FLOW

Representative Signature	Printed Name	Laboratory Signature	Printed Name
			CASEY ELLIS

Company	Date	Time	Company	Date	Time
WATERSTONE ENVIRONMENTAL, INC.	1/31/2024	15:30	JONES ENVIRONMENTAL, INC.	1/31/2024	15:30

Representative Signature	Printed Name	Laboratory Signature	Printed Name

Company	Date	Time	Company	Date	Time

8 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

Workplan for Supplemental Site Investigation

Solomon Hills

Santa Barbara County, California
SMU Site #20271

August 15, 2025 **Project: 23-148**

Submitted to: **County of Santa Barbara Environmental Health Services**
225 Camino del Remedio
Santa Barbara, CA 93110

On Behalf of: **Solstra Communities California, LLC**
1555 Orcutt Hill Road
Orcutt, CA 93455

Prepared by:

Waterstone Environmental, Inc.
2936 East Coronado Street
Anaheim, California 92806
(714) 414-1122; Fax (714) 414-1166

Workplan for Supplemental Site Investigation

Solomon Hills

Santa Barbara County, California
SMU Site #20271

August 15, 2025 **Project: 23-148**



Heather Fields, P.G.
Principal Geologist

Mark Shifflett
Managing Principal Environmental Scientist

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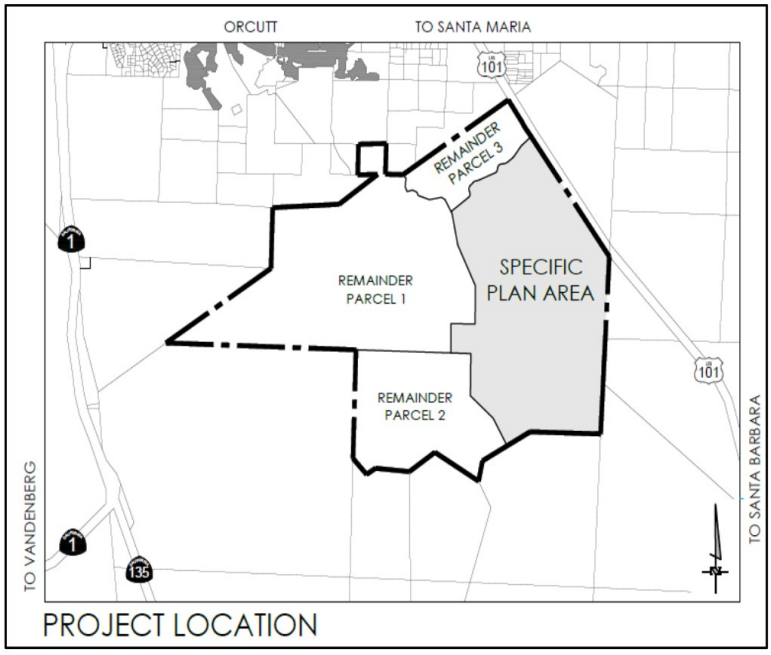
D 2015 Santa Maria Energy Letter Regarding Sumps

E Field Sampling Protocols

1.0 Introduction

Waterstone Environmental, Inc. ("Waterstone") has prepared this Workplan for Supplemental Site Investigation ("Workplan") on behalf of Solstra Communities California, LLC ("Solstra") for the additional investigation of impacts to soil from historical oilfield exploration and production operations at the Solomon Hills Specific Plan Area property in Santa Barbara County, California ("Subject Property"), shown in the gray shaded area in the figure below. In addition, the Subject Property includes offsite improvements related to roads, parks and basins. The Subject Property consists of portions of the Careaga and Newlove oilfield leases located in the Orcutt Oilfield.

Solstra owns the Subject Property which is 1,616 acres in size and includes additional offsite improvements related to roads, parks, and basins, and is part of the larger Solstra-owned Solomon Hills Property that is approximately 4,195 acres inclusive of APNs 101-020-041, -043, -085, -086 and -087 ("Solstra-owned Property"), shown outlined in bold black line on the figure below.



This Workplan outlines the proposed scope of work and procedures for the investigation of areas of concern (AOCs) related to existing and historical oilfield operations to identify areas for remediation to prepare the Subject Property for future development.

The Project will include up to 4,000 residential units, schools, retail space and offices, a village center, and over 1,200 acres of open space and parks. Portions will also serve as habitat for protection of wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park. The development is proposed to be built in four distinct phases over a fourteen-year period. The balance of the Solstra-owned

Property not being developed for the Subject Property will remain an active oil and gas operation owned by Solstra.

To prepare the site for redevelopment, all oil and gas extraction activities within the Subject Property boundary will be permanently abandoned prior to grading operations of the first phase of development. Future activities will include abandonment of all active oil and gas wells and re-abandonment of non-active wells, if required due to grading operations, and removal of infrastructure including pipelines, equipment, tanks, and ancillary equipment. A significant portion of the eastern and northeastern portions of the Subject Property are largely undeveloped and do not have any oilfield operations. Oil operations are concentrated partially in the western and mostly the southwestern portions of the Subject Property.

Pacific Coast Energy Company, LP (PCEC) is the current operator of the oilfield and is responsible for restoring the site to its original condition upon the abandonment of oilfield features in accordance with the Santa Barbara County Petroleum Code (Section 25-31). This includes the abandonment of oil wells and removal of infrastructure such as tanks and piping. PCEC will continue with active oilfield operations on the neighboring parcels to the west, where they operate a waste pile management facility for beneficial reuse of petroleum-impacted soils under General Waste Discharge Requirements Order No. R3-2020-0006.

This Workplan is submitted to the County of Santa Barbara Environmental Health Services Site Mitigation Unit (EHS or SMU) for review and approval to proceed with the scope of work proposed herein, the results of which will ultimately be used to revise/update the Draft Remedial Action Plan (RAP) dated June 27, 2024 and obtaining EHS closure of the various features contained within the Subject Property boundary and its offsite improvements related to access, utilities, parks or basins on a phase-by-phase basis. Solstra entered into a Remedial Action Agreement under EHS's Voluntary Remediation Oversight Program for regulatory oversight of site investigation and remediation activities in January 2025.

A review of historical findings of previous studies related to the larger Solstra-owned Property, and more recent studies specifically for the Subject Property, was performed to develop a comprehensive list of site features and AOCs to be targeted for sampling within the Subject Property boundary of 1,616 acres. These documents included the following:

- 1991 Phase I Environmental Assessment of Orcutt Hill Oilfield prepared by Dahlgren Consulting Services
  (for Shell's Careaga Lease, approximately 200 acres within Careaga portion Specific Plan Area)
- 1995 Dames and Moore Phase I of Orcutt Hill Area
- 1995 ENSR Phase II
  (Newlove (west portion), Pinal, Hobbs, and Careaga Fees, 452 acres on Careaga portion of Specific Plan area)
- 2001 Harding ESE Phase I of Orcutt Hill Area
  (5,460 acres in Orcutt Hill Oilfield, 1,616 acres in Specific Plan area)
- 2004 Waterstone Phase I of Orcutt Hills Oilfield

(over 10,000 acres in Orcutt Oilfield including Careaga and Newlove Fees, 1,616 acres in Specific Plan area)

- 2007 Waterstone Phase II of Orcutt Oilfield
  (4,195 acres in Orcutt Oilfield, 1,616 acres within Specific Plan Area)
- 2022 Waterstone Phase I of Careaga Lease
  (1,145 Acres total, southern 452 acres Careaga portion of Specific Plan Area)
- 2024 Waterstone Phase II of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)
- 2025 Waterstone Phase I of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)

For this Workplan, only portions of previous reports related to the 1,616-acre Subject Property were utilized to focus information directly related to the Subject Property area.

This workplan is conditioned on the approval of the Solomon Hills Specific Plan by the County of Santa Barabara. The workplans would be implemented in four phases to correspond with the development of the Subject Property.

1.1 Scope and Purpose

Phase I and Phase II investigations performed over the last 30 years have investigated and identified levels of petroleum hydrocarbons, metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) impacts in soil resulting from historical oil exploration and production activities at the Subject Property.

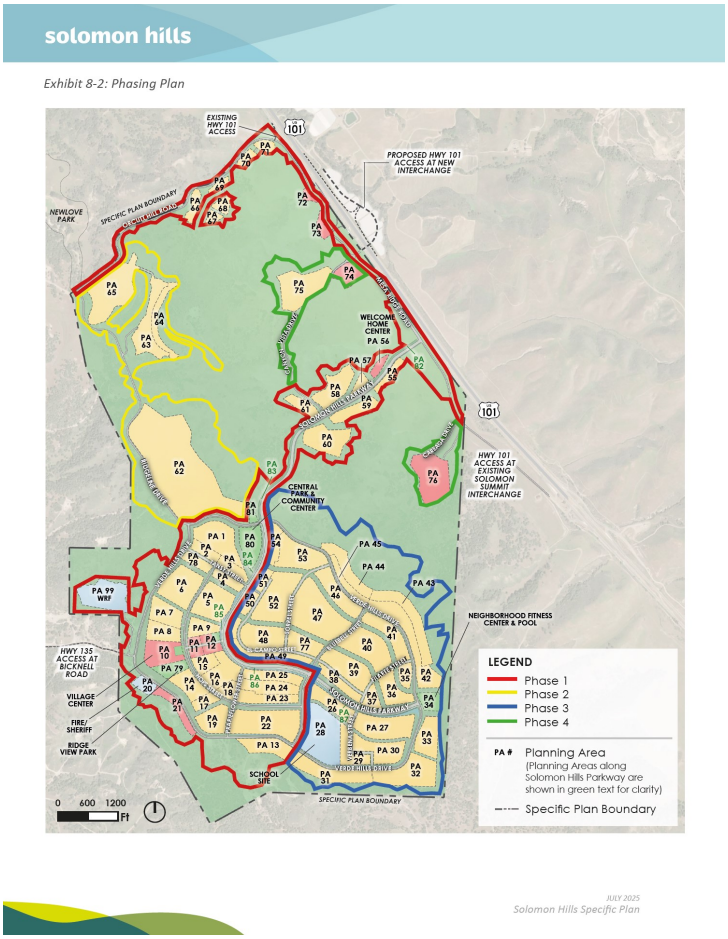
Additional environmental investigation is proposed to investigate all AOCs identified at the Subject Property. To prepare for future redevelopment, oilfield operations will be shut down and the infrastructure abandoned. A revised RAP and/or Corrective Action Plan (CAP) will be developed for the four development phases once the features have been further studied and the impacts to soil delineated. Investigation and remediation of soil are proposed to proceed under the regulatory oversight of EHS for the purpose of obtaining site closure and ultimately a No Further Action letter on a feature by feature basis.

1.2 Subject Property Background and Proposed Use

The Subject Property is located adjacent to and west of Highway 101, south of Orcutt by 0.7 miles, east of Highway 135 by two miles and north of Los Alamos by six miles. It encompasses portions of three legal parcels owned by Solstra including APNs 101-020-085, -086, and -087, totaling 1,616 acres (see Figures 1 and 2).

General information regarding the Subject Property, including the general site setting, history, current condition, and proposed site use, are summarized in the following sections.

The proposed development will include up to 4,000 residential units, schools, retail space and offices, a village center, and between 1,000 and 1,200 acres of open space and parks. Portions will also serve as habitat for protected wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park. A conceptual site development plan is shown on Figure 3. The development design plan calls for cut depths up to 113 feet and fill depths up to 95 feet from existing grade, and casings for abandoned oil wells will need to be raised or lowered accordingly. Development is proposed to be conducted in four phases as shown on Figure 4 and below. Earthwork quantities are expected to balance with no significant export or import of soil required.



1.2.1 General Subject Property Setting

The Subject Property comprises approximately 1,616 acres of undeveloped land used for oilfield operations and cattle grazing. It is bounded to the north by undeveloped land and oilfields operations, northeast by Highway 101, to the west by operating oilfield operations, and to the south by open space and ranchland.

The Subject Property is located in the Solomon Hills, which generally trend from east to west. The Subject Property is hilly and rugged. The elevation at the Subject Property varies from 1,346

feet above sea level on Mount Solomon to approximately 600 feet above sea level at the northern margin of the Subject Property. Graciosa Ridge extends from east to west in the northern portion of the Subject Property at an elevation of approximately 1,200 feet above sea level. Surface drainage flows generally to the south and west via Harris Canyon Creek, a tributary to San Antonio Creek, which flows to the Pacific Ocean.

The Subject Property has 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are considered to be offsite and part of access, basin or park improvements. An oil well status summary table is included in Appendix A. Well cellars, where present, are typically 5 to 6 feet in diameter and 6 feet deep, and lined with concrete or corrugated metal culvert piping, with most having concrete bottoms.

1.2.2 General Subject Property History

The Subject Property has been used for oil and gas production since the early 1900s and is also used for cattle grazing. The first commercial oil well in the Santa Maria District was constructed in 1901. Annual production increased to 3.7 million barrels (bbl) by 1920. Many wells were shut-in in the 1920s to maintain production in the reservoir. Secondary recovery processes such as gas injection and water flooding were used beginning in the 1950s. Output increased in the 1960s to 2.5 million bbl in 1967 (Harding ESE, 2001).

1.3 Geology

The Subject Property is located in the Solomon Hills, along the northern boundary of the Transverse Ranges geomorphic province, between the Santa Maria Valley and the San Antonio Valley. The Santa Maria Valley forms a northwest-southeast trending wedge that opens toward the Pacific Ocean and is bound by the San Rafael Mountains to the north and the Solomon and Casmalia Hills to the south.

The surficial sediments at the Subject Property are recent and Plio-Pleistocene age stream alluvium underlain by the Paso Robles, Careaga, and Sisquoc Formations. The Diatomite formation is a shallow zone approximately 100-900 feet below ground surface (bgs).

At depths ranging from 1,000 to 4,000 feet, the Foxen, Monterey, Point Sal, Lospe, and Knoxville Formations are present. The younger sediments, the alluvium, Paso Robles, and Careaga Formations are composed of unconsolidated to semi-consolidated sands, silts, and clays and are potential aquifers. The older formations, the Foxen, Sisquoc, Monterey, Point Sal, and Lospe Formations are generally composed of siltstones, claystones, and shales and are not potential aquifers (but some formations contain usable quantities of oil and gas).

The Monterey (a fractured dolomitic shale) and Point Sal (shallow marine turbidite sandstone) formations are highly productive, with oil recovery enhanced by waterflood injection.

Structurally, the sediments underlying the Subject Property are folded into a series of northwest trending anticlines and synclines, the most prominent of which is the Solomon Anticline, which forms the Orcutt Oilfield.

Additional information regarding soil conditions and seismic considerations are provided in an October 20, 2023 Geotechnical Report prepared by Allan E. Seward Engineering Geology, Inc.

1.4 Hydrogeology

The Subject Property overlies the fringes of the Santa Maria and San Antonio Groundwater Basins. The significant water bearing formations in the Santa Maria and San Antonio Basins are the Paso Robles and Careaga Formations; the Orcutt Formation and the stream alluvium are too shallow and too low in permeability to yield significant quantities of water at the Subject Property. The Paso Robles Formation is composed of gravels, sand, silts and clays and is the primary aquifer in the Santa Maria Groundwater Basin. The Careaga Formation is composed of fine and coarse sands interbedded with clay and is the primary aquifer in the San Antonio Groundwater Basin.

The overall direction of groundwater flow in the Santa Maria Groundwater basin is to the northwest, although groundwater pumping results in locally anomalous flow directions. In the San Antonio Groundwater Basin, the predominant direction of groundwater flow under historical and present-day conditions was from the eastern uplands in the Solomon Hills to the west along San Antonio Creek to the discharge area in Barka Slough, and from the northern uplands in the Casmalia Hills south to San Antonio Creek (USGS, 2022). In 1976, the inferred groundwater flow direction at the Subject Property was toward the north-northwest in the northern portion of the property and to the south-southwest in the southern portion. The depth to first groundwater for the property was not identified, but sparse data held at the Santa Barbara County Water Agency indicated that groundwater levels in this area vary from 317 to 475 feet below ground surface.

The onsite water-bearing formations are not viable as sources of potable water. Groundwater quality varies widely within the basins, with total dissolved solids (TDS) ranging from 500 to 3,000 milligrams per liter. Groundwater TDS and nitrogen concentrations generally increase toward the west and also with distance away from the Santa Maria River, which is the primary recharge area.

On the Careaga Lease, perched groundwater can be found in the sands and alluvium in the canyon bottoms during rainy years (Harding ESE, 2001). North of the Subject Property, there is a fault and groundwater is closer to the surface to the north.

The geotechnical soils report notes that the highest depth of measured groundwater in Solomon Canyon just south of the Subject Property is 198 feet. Discontinuous perched groundwater and seeps were encountered at depths from 9 to 60 feet bgs in the alluvial canyons (Allan E. Seward Engineering Geology, Inc., 2023). No groundwater was encountered in environmental soil borings which drilled to a maximum depth of 30 feet bgs.

2.0 Previous Investigations

Previous environmental studies were performed on the larger Solstra-owned Property and other Orcutt Oilfield parcels from 1991 through the present, but only the portions of those reports directly related to the current Subject Property boundary were utilized. These documents included the following:

- 1991 Phase I Environmental Assessment of Orcutt Hill Oilfield prepared by Dahlgren Consulting Services
  (for Shell's Careaga Lease, approximately 200 acres within Careaga portion Specific Plan Area)
- 1995 Dames and Moore Phase I of Orcutt Hill Area
- 1995 ENSR Phase II
  (Newlove (west portion), Pinal, Hobbs, and Careaga Fees, 452 acres on Careaga portion of Specific Plan area)
- 2001 Harding ESE Phase I of Orcutt Hill Area
  (5,460 acres in Orcutt Hill Oilfield, 1,616 acres in Specific Plan area)
- 2004 Waterstone Phase I of Orcutt Hills Oilfield
  (over 10,000 acres in Orcutt Oilfield including Careaga and Newlove Fees, 1,616 acres in Specific Plan area)
- 2007 Waterstone Phase II of Orcutt Oilfield
  (4,195 acres in Orcutt Oilfield, 1,616 acres within Specific Plan Area)
- 2022 Waterstone Phase I of Careaga Lease
  (1,145 Acres total, southern 452 acres Careaga portion of Specific Plan Area)
- 2024 Waterstone Phase II of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)
- 2025 Waterstone Phase I of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)

Excerpts of Waterstone's Phase II reports from 2007 and 2024 which include testing of soils for hydrocarbons, VOCs, SVOCs, metals and PCBs are included in Appendix B. Copies of these reports are available on the State Water Resources Control Board's online GeoTracker portal (https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000022945).

Detailed site maps of the individual features and sample locations for these past studies will be provided to EHS, and these past sample locations and results will be considered in finalizing the sampling plan for those features.

2.1 Waterstone Phase II Investigation, 2006

In 2006, Waterstone performed a Phase II Site Characterization (reported in 2007) where the environmental conditions on the entire Solstra-owned Property of over 4,000 acres of the Orcutt

Oilfield were evaluated under contract to BreitBurn Energy Co. ("BreitBurn", the owner and oil operator in 2007).

The purpose of the sampling was to evaluate environmental conditions and determine the degree of remedial action that would be required to prepare the site for the proposed North Hills development at that time. The North Hills project proposed the development of 4,000 acres with 7,500 new homes and 2,000,000 square feet of commercial space. No development occurred following the County's denial of the North Hills project, and oil production continued much as it has since the early 1900s.

Within the 1,616-acre current Subject Property boundary, Waterstone collected soil samples at approximately 25 locations adjacent to oilfield features (oil wells, tank farms, sumps, etc.) during three mobilizations, seven days of field sampling, and performed laboratory analyses on over 70 soil samples to test for the presence of crude oil and other oil production-related substances.

At the time of Waterstone's sampling activity in 2006, the Subject Property was used for oil production and cattle grazing. There has been no historical use or storage of chemical compounds in the ravines or densely vegetated hills and canyons and they were not investigated during the 2007 Phase II.

Improvements at the Subject Property and features identified on Figure 5 include oil wells with cellars, pipelines, buildings, storage areas and an aboveground tank, test sites, sumps, and former water tanks. The following previous reports were used by Waterstone to determine appropriate sampling locations for these features during the 2006 study:

- October 22, 2001, Harding ESE; *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.*
- September 6, 2004, Waterstone Environmental, Inc.; *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.*

The 2007 Phase II identification of sampling locations was based on the features shown on the map (Figure 5) that was generated by Harding ESE in its 2001 report. Waterstone and its subcontracted licensed surveyor (Land Development Consultants of Santa Ana, CA) performed three site visits in 2006 to mark locations and survey features from the Harding ESE map to identify locations for sampling activities. Sampling locations also targeted areas of oilfield operations where chemical compounds were known or suspected to have been used or stored in the past.

Two field sampling episodes were performed to evaluate the soil at AOCs as identified on Figure 5. Samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range)
- VOCs by EPA Method 8260
- SVOCs by EPA Method 8270

- Title 22 Metals by EPA Method 6000/7000 series

Seven of the 70 samples (10%) analyzed contained TPH concentrations exceeding San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for residential land use (430 parts per million (ppm) gasoline range, 260 ppm diesel range, 12,000 ppm oil range). These TPH thresholds are used to conservatively evaluate what may be considered elevated in terms of risk to a future residential receptor. The samples were located at a former dump site (D-2) on the Newlove Lease and at three oil wells on the Careaga lease (Wells #61, #63, and #78). The same samples also contained elevated concentrations of VOCs and SVOCs.

Most other samples had no detections of VOCs or SVOCs. Where detected, VOCs and SVOCs were commonly associated with elevated TPH as noted above. Metals concentrations were not detected at concentrations above residential screening levels or background levels.

Sampling results are considered biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the Subject Property that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for oil exploration/production or chemical use and storage.

2.2 Waterstone Phase II Investigation, 2024

In 2024, Waterstone performed an additional Phase II Investigation directly related to the current proposed Solomon Hills Specific Plan Area/Subject Property to further evaluate areas of former and existing oilfield operations. The study focused on the proposed primary residential development area and targeted areas of oilfield operation on both the Newlove and Careaga leases that fall within the boundaries of the proposed Solomon Hills development where active oilfield operations occurred since the time of the 2006 Phase II investigation. Site features targeted for sampling included oil wells, pipelines, tank batteries, production/storage/processing facilities, and equipment storage areas.

The field sampling included 19 locations and focused on nine areas of concern from the 2006 Phase II and 10 new locations within the proposed primary residential development area in an effort to create a larger sample size and characterization of these areas. The locations are shown on Figure 6A and 6B.

Soil samples were collected from 19 locations to depths up to 30 feet below ground surface (bgs), typically in five-foot intervals beginning at 5 feet bgs. Shallower samples were collected at aboveground features like equipment storage areas and aboveground pipelines. Soil vapor probes were installed in 10 of the boreholes at depths ranging from 10 to 20 feet bgs.

Soil samples were selectively analyzed for the TPH – carbon chain identification by EPA Method 8015M, VOCs by EPA Method 5035/8260B, SVOCs or PAHs by EPA Method 8270C/SIM, Title 22 Metals by EPA Methods 6010B/7471A; and Polychlorinated Biphenyls (PCBs) by EPA Method 8082. Add-on analysis were performed to delineate the vertical extent of contamination or for other analytes such as metals or SVOCs where elevated concentrations of

TPH were found, and solubility testing (by Waste Extraction Test [WET] and/or toxicity characteristic leaching procedure [TCLP] analyses) where concentrations exceeded rule of thumb thresholds for determination of hazardous waste. Soil vapor samples were analyzed for VOCs by EPA Method 8260B utilizing a mobile laboratory.

Soils encountered in the borings consisted primarily of silt with sand, fine to medium grained sand, and silty sand. Clay and gravels were observed in several borings. No groundwater was observed in any of the borings, drilled to a maximum depth of 30 feet bgs.

A comparison of the findings of the 2006 and 2024 Phase II studies is summarized in Table 6.

2.2.1 Soil Results

Laboratory results for soil samples are summarized in Tables 1 through 4.

Two of the 65 soil samples (3%), at two of 18 site features sampled (11%) analyzed for TPH exceeded the residential screening level for TPH-diesel range organics (DRO) of 260 milligrams per kilogram (mg/kg) (at CL-W-63 and CL-W-78).

VOCs were detected in five of the 34 samples (15%) analyzed, at four of 18 site features sampled (22%), with concentrations exceeding residential screening levels in only one sample at one feature (CL-W-78-20), or 6%.

Of the 24 samples analyzed for metals, one sample (4%) or one of 20 features sampled (5%) (CL-W-60-10) contained arsenic slightly above published background concentration at 13 mg/kg, and one sample (CL-W-74-10) contained elevated cadmium at 56 mg/kg, but below the screening level. Sample CL-W-74-10 was additionally analyzed for WET/STLC and TCLP for cadmium, and the results were below hazardous waste thresholds.

Detected SVOCs/PAHs exceeded residential screening levels in one of the 26 samples (4%), or one of 20 site features (5%) analyzed (CL-W-63-20). The detections generally correlated with those samples having elevated TPH concentrations.

SVOCs/PAHs were also evaluated by calculating benzo(a)pyrene-equivalents ("B(a)P-eq") as shown in Appendix C. There were no detections of cancer-causing PAHs, but in some cases the reporting limits were elevated due to high concentrations of petroleum hydrocarbons in the samples. For calculating the B(a)P-eq with non-detect results, the reporting limits were used as input values. Assigning these non-detect reporting limit values as inputs, the B(a)P-eq results ranged from 602.5 to 31,330 ug/kg, exceeding the published background level (DTSC, 2009) of 900 ug/kg in 7 of 26 samples analyzed. It is noted again that no PAHs were detected in the samples, but they did contain elevated TPH. The B(a)P-eq can be used for simple screening purposes, but DTSC HERO (HHRA Note Number 4) no longer recommends calculating B(a)P-equivalent concentrations in screening-level risk evaluations to assess risk from carcinogenic PAHs since several of the toxicity criteria for individual PAHs are listed in the DTSC Toxicity Criteria Rule. Instead HERO recommends evaluating PAHs individually using toxicity criteria that are consistent with the DTSC Toxicity Criteria Rule sections (§) 69021(a), (b), and (c).

In the two samples analyzed for PCBs, none were detected.

2.2.2 Soil Vapor Results

Soil vapor results are summarized in Table 5.

In soil vapor, elevated concentrations of VOCs were detected in three of 10 locations (30%) or three of nine features sampled (33%); CL-W-63, CL-W-78, and CL-TH1. This is consistent with the soil results at CL-W-63 and CL-W-78 where elevated concentrations of petroleum hydrocarbons were also detected, but no VOCs were detected in soil at boring CL-TH1.

The soil vapor results were converted to theoretical indoor air concentrations using the following attenuation factors:

	CalEPA, 2023	CalEPA, 2011
Future Residential Building	0.03	0.001

While many results exceed screening levels using the 0.03 AF, many in the regulated community view this AF as unreasonable and not supported by data representative of conditions in California. The 0.03 AF in the 2023 Supplemental Guidance relies on an outdated environmental data set collected predominantly from east coast and Midwest properties with colder climates, coarse soil conditions, subterranean building designs with basements and open foundations, and average building ages exceeding 80 years, all factors that increase the rate of vapor intrusion. Most of the data set was developed from studies performed at residential buildings. The Guidance does not consider published California-based data collected by the DTSC and other investigators that better reflect vapor intrusion potential at California sites.

The theoretical indoor air concentrations were compared against published agency standards including Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Note 3 Commercial Screening Levels ("DTSC-SLs") dated April 2025, San Francisco Bay RWQCB ESLs dated 2019, and United States Environmental Protection Agency (USEPA) Commercial Regional Screening Levels (RSLs) dated November 2024.

3.0 Conceptual Site Model

This CSM provides information regarding the nature and extent of chemical compounds on the Subject Property, how and where contaminants are expected to move, and identifies exposure pathways and potential receptors. A flowchart of source areas, migration pathways, and exposure pathways is shown on Figure 7. The CSM is considered an evolving model and will be updated as additional data is generated.

3.1 Nature and Extent of Contamination

3.1.1 Known and Potential Source Areas

Oil and gas exploration and production-related activities have been conducted at the Subject Property since the early 1900s. These activities have resulted in impacts to the shallow soil with concentrations of petroleum hydrocarbons and other compounds.

The sources of impacts to soil include oil wells (wellhead releases/leaks, cellars, surface leaks), sumps (unlined with historical discharge of produced water, drilling fluids, and sludges), tank batteries (spills/leaks/overflows from storage tanks and associated piping), pipelines (leaks from aging aboveground/underground lines), and historical dump sites. Other potential sources include gathering areas, gas scrubbers and separators, and equipment storage yards.

3.1.2 Contaminants of Concern

The principal chemicals or contaminants of concern (COCs) based on knowledge of historical and existing site operations and results of onsite testing performed to date include:

- Total Petroleum Hydrocarbons (TPH):
    - TPH-gasoline (TPHg)
    - TPH-diesel (TPHd)
    - TPH-motor oil (TPHmo)
- VOCs, including benzene, toluene, ethylbenzene, and xylenes (BTEX)
- Semi-Volatile Organic Compounds (SVOCs), or Polycyclic Aromatic Hydrocarbons (PAHs)
- Metals (e.g., barium, arsenic in former sump areas, mercury from historic gauges/switches, lead from lead-based paint at former tank batteries and former structures, and cadmium).

3.1.3 Affected Media

- Soil: Contamination identified at surface and subsurface (typically 0–20 feet bgs).
- Soil Vapor: Previous testing has identified impacts to soil vapor by petroleum VOCs such as BTEX at well sites and areas of piping at 10-20 feet bgs.

- Groundwater: Groundwater is not expected to be a medium of concern. On the Careaga Lease, perched groundwater can be found in the sands and alluvium in the canyon bottoms during rainy years (Harding ESE, 2001). North of the Subject Property, there is a fault and groundwater is closer to the surface to the north. The geotechnical soils report notes that the highest depth of measured groundwater in Solomon Canyon just south of the Subject Property is 198 feet. Discontinuous perched groundwater and seeps were encountered at depths from 9 to 60 feet bgs in the alluvial canyons (Allan E. Seward Engineering Geology, Inc., 2023). No groundwater was encountered in environmental soil borings drilled to a maximum depth of 30 feet bgs.

3.1.4 Extent of Impacts

Investigations performed to date indicate localized but elevated concentrations of petroleum hydrocarbon concentrations, including VOCs, PAHs, and metals in soils around:

- Oil wells
- Pipeline corridors
- Historic dump sites

Additional investigation will be performed where impacts have been identified to further delineate the extent, but based on the nature of the releases would be expected to be generally localized.

Results of investigations performed to date indicate the presence of impacts to soil at a relatively small percentage of AOCs.

3.2 Potential Migration Pathways

This section outlines the potential migration pathways that chemicals may travel from their release point at the various sources through the subsurface media (soil, soil vapor, and groundwater) to reach human receptors at the surface.

Petroleum hydrocarbon contamination at the Subject Property has several potential and confirmed migration mechanisms based on the site conditions, geology, and contaminant characteristics. Contaminants will migrate downward vertically through the soil based on the magnitude of the release, the soil type, soil porosity, moisture, and depth to water. There may be potential to reach underlying groundwater if it is present at shallow depths, but this is not likely nor anticipated. Lateral spreading or migration through the soil may occur along fine-grained clay or silt layers, especially if perched water or capillary zones are present. This is influenced by the subsurface stratigraphy and moisture gradients.

Surface runoff and erosion may cause contaminant transport via stormwater runoff or wind-blown dust. This risk is reduced by the existing topography and absence of nearby sensitive surface water bodies.

Contaminants may leach to groundwater due to infiltrating rainwater, followed by percolation to groundwater. This depends on the depth to groundwater, permeability of soil strata, contaminant mass, and precipitation recharge rate. Groundwater has not been the subject of investigations performed to date and the depth to groundwater is such that impacts to groundwater are unlikely. The onsite water-bearing formations are not viable as sources of potable water. Groundwater has not been encountered during any of the investigations performed to date and is not expected to a medium of concern or a transport mechanism.

Volatilization of VOCs as soil gas may migrate towards the surface through the vadose zone soils or via preferential pathways/conduits (e.g. utility trenches) and present a risk of vapor intrusion into structures at the surface. No occupied structures currently exist but will be present after development occurs.

Contaminants may follow utility corridors or bedding material (e.g., old pipelines, well conduits) acting as preferential pathways.

3.3 Potential Exposure Pathways

The soil contact exposure pathway is considered complete when the site receptors including oilfield workers, visitors, site users, or construction/utility and/or remediation workers could potentially come into contact with, inhale vapors, or ingest dust from impacted soils. This includes near-surface impacted soil or soil at depth that could be contacted by site receptors that perform work including excavation or moving of soil.

Most site receptors will not come into contact with subsurface soils that might be impacted; however, construction/utility and/or remediation workers could potentially contact these soils if excavation is performed in the area where soil impacts exist.

The surface water exposure pathway is considered when impacted surface water, including storm water runoff, is or may be present. There are no nearby surface water bodies that would serve as an exposure pathway at the Subject Property. Implementation of standard best management practices for storm water runoff during any future excavation or stockpiling activities should prevent impacts by COCs at the Subject Property. Thus, the direct exposure pathway for impacted surface water is considered incomplete for users and construction/utility and/or remediation workers at the Subject Property.

The vapor intrusion pathway is considered when there is a potential for the accumulation and inhalation of VOCs in indoor air or potential exposure to VOCs through inhalation of outdoor air. The vapor intrusion pathway from impacted soil and/or groundwater to indoor or outdoor air is potentially complete where volatile contaminants are present in soil beneath a structure which is or may be occupied, or beneath a future structure. Air impacts relating to human exposure typically only consider indoor air intrusion. Elevated vapor phase concentrations of VOCs may be transported within the vadose zone and could migrate upward to the surface and enter the interior space of future buildings at the Subject Property. The potential vapor intrusion pathway on the Subject Property will be evaluated by soil vapor testing and is currently considered potentially complete for site receptors.

The groundwater pathway is considered when impacted groundwater is present. There is no current or proposed future use of groundwater as a drinking water supply beneath the Subject Property. For this reason, this CSM does not currently consider exposure to groundwater a potential pathway; however, the CSM will be updated as additional data is obtained and evaluated. Regarding the inhalation pathway, any potential off-gassing from groundwater is represented by the numerous soil vapor samples collected. Regarding the dermal contact pathway, because the depth to groundwater is greater than would typically be excavated for construction/utility and/or remediation work, the direct exposure pathway for impacted groundwater is considered unlikely for construction/utility and/or remediation workers.

3.4 Potentially Complete Pathways

The potential human exposure to residual COCs that are present in soil and soil vapor, indoor air in future buildings, groundwater, or surface water is evaluated based on both the current and potential future uses of the Subject Property that define the site receptors. The site receptors for the COCs present at the Subject Property include on-site workers, construction/utility workers, and site visitors.

Future development of the Subject Property will include extensive grading with cuts and fills of up to 100 feet, resulting in major changes to the configuration of the Subject Property over four phases and 14 years. This will likely eliminate or dramatically decrease the likelihood of exposures to future occupants, unless contaminated soil is inadvertently placed near final grade during site grading. But this is unlikely since remediation will have already been completed and site features closed by EHS prior to initiating grading operations, and grading will be performed under the implementation of a Soil Management Plan. This site configuration results in an incomplete pathway for COCs to reach site receptors via ingestion and dermal contact with soil for occupants and users, as shown on Figure 7.

Construction/utility workers could potentially come in contact with impacted soils, indicating dermal contact may be a complete pathway for these site receptors if excavation is performed in the area where impacts exist. Since the property will be used for residential purposes with future residences to be constructed, the only potentially complete pathways for exposure to COCs for all site receptors is indoor air in future buildings.

3.5 Receptors

Under the existing site use and configuration, receptors that may be exposed to COCs at the Subject Property and on adjacent offsite properties are workers, construction workers, and site visitors. The property is currently fenced and not accessible to the general public.

Under future site usage as a residential development, receptors that may be exposed to COCs present at the Subject Property include future residents and workers, and construction/utility workers. But this exposure would be under a post-remediation post-closure scenario where soil impacts have been remediated to the satisfaction of the overseeing regulatory agency. Potential receptors on adjoining offsite properties would still be oilfield workers, construction workers,

and site visitors. Surrounding properties are primarily active oilfield facilities and undeveloped land.

Site receptors are not expected to experience any direct contact exposure to groundwater or surface water. Future site receptors may be exposed to COCs in the underlying soil gas that enters the indoor air at the Subject Property from cracks or porosity in slab-on-grade structures. Construction/utility and/or remediation workers may also be exposed to COCs in the underlying soil gas during subsurface utility access or excavation activities.

If warranted, the future development may include additional measures for vapor intrusion mitigation.

3.6. Data Gaps and Proposed Work

A significant representative sample size from the previous studies in 2006 and 2024 which included the analysis of more than 130 samples covering approximately 30% of the oil wells on the Subject Property (primarily in the proposed main residential development area), soil impacts were identified at 3 of 21 wells (less than 15% of the sample population), one pipeline area, and one historical dump site.

Current data gaps include the complete assessment of all site features to evaluate the soil for impacts from oilfield operations and the complete delineation of any identified impacts. This workplan proposes to perform additional sampling at all identified site features once the Solomon Hills development Project is approved, to be followed by the delineation of impacts that are identified, and leading to the submittal of a revised RAP.

4.0 Identification of Areas of Concern

This section outlines the identification of AOCs to be targeted for investigation.

A new Phase I Environmental Site Assessment (ESA) (provided to EHS under separate cover) was recently completed to update the findings of previous studies performed from 1991 through 2024 and identify all potential features or AOCs within the Subject Property boundaries that may require evaluation as part of the completion of the remedial action plan or CAP.

4.1 Previous Studies

A review of historical findings of previous studies and the 2025 Phase I ESA were performed to develop a comprehensive list of site features and AOCs directly related to the current Subject Property boundary to be targeted for sampling. These documents included the following:

- 1991 Phase I Environmental Assessment of Orcutt Hill Oilfield prepared by Dahlgren Consulting Services
  (for Shell's Careaga Lease, approximately 200 acres within Careaga portion Specific Plan Area)
- 1995 Dames and Moore Phase I of Orcutt Hill Area
- 1995 ENSR Phase II
  (Newlove (west portion), Pinal, Hobbs, and Careaga Fees, 452 acres on Careaga portion of Specific Plan area)
- 2001 Harding ESE Phase I of Orcutt Hill Area
  (5,460 acres in Orcutt Hill Oilfield, 1,616 acres in Specific Plan area)
- 2004 Waterstone Phase I of Orcutt Hills Oilfield
  (over 10,000 acres in Orcutt Oilfield including Careaga and Newlove Fees, 1,616 acres in Specific Plan area)
- 2007 Waterstone Phase II of Orcutt Oilfield
  (4,195 acres in Orcutt Oilfield, 1,616 acres within Specific Plan Area)
- 2022 Waterstone Phase I of Careaga Lease
  (1,145 Acres total, southern 452 acres Careaga portion of Specific Plan Area)
- 2024 Waterstone Phase II of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)
- 2025 Waterstone Phase I of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)

The 1995 reports were not available in full but were summarized in the 2001 Harding ESE report. Excerpts from these reports are included in Appendix B and they are available on GeoTracker (https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000022945).

Because many of the early studies covered a larger portion of the Solstra-owned Property extending beyond the Subject Property boundary, the locations of the features identified were evaluated to determine whether they were inside or outside the Subject Property boundary. Many of the more prominent features identified in the early studies were outside the Subject Property, including the primary oil/gas storage, injection, and processing facilities on other portions of the Newlove and Careaga leases that are approximately 3,000 feet west of the Subject Property. The scope and extent of the features located within the boundaries of the Subject Property are more limited.

4.1.1 Areas of Concern

A comprehensive list of AOCs developed based on the results of the review outlined above is included in Table 7 (by Development grading phase) and Table 8 (site-wide summary – see below).

Table 8
Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Oil Wells	65	NL-#20-16Z	
		NL-#32-21Z	
		NL-#44	
		NL-#45	
		NL-#48	
		NL-#49	
		NL-#50	
		NL-#89	
		C-#2A	
		C-#3	Gas leak identified and repaired in 2010
		C-#4	0.5 bbls of oil spilled on paved road in 1999
		C-#4A	
		C-#5	
		C-#6	
		C-#6	
		C-#8	
		C-#9	
		C-#11	
		C-#15	
		C-#17	
		C-#36	
		C-#37A	
		C-#45	5-10 bbls of oil misted over 100' by 150' area in 1997, 0.5 gal crude oil released to ground around wellhead in 2006
		C-#52	
		C-#57	
		C-#60	History of unpermitted wastewater injections
		C-#61	Petroleum impacts identified during 2006 sample event
		C-#63	Petroleum impacts identified during 2006 and 2024 sample events
		C-#64	
		C-#66	
		C-#68	
		C-#74	
		C-#75	3 gal crude oil released to ground around wellhead in 2006
		C-#76	
		C-#77	
		C-#78	Petroleum impacts identified during 2006 and 2024 sample events
		C-#84	
		C-#88	
		C-#91	
		C-#102	
		C-#126	
		C-#136	
		C-#146	
		C-#146D	
		C-#6742X	
		NL-#60	
		NL-#79	
		NL-#101	
		NL-#46	
		NL-#47	
		NL-#98	
		C-#B-5	Releases reported in 2006 included 2 gal crude oil, 6 bbls produced water into well cellar, 10 gal produced water into well cellar and surrounding area, 50 bbls produced water
		C-#37	20 bbls of oil released to soil and downslope on adjacent drainage/wash in 2007. Impacted soil removed and disposed of offsite.
		C-#46	
		C-#47A	
		C-#62	
		C-#65	
		C-#69	
		C-#70	
		C-#7330X	
		NL-#22	Offsite Newlove Park
		C-#2	Bicknell Road
		C-#1516	
		C-#1615	
		C-#1714	

Table 8
Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Sumps	13	Well N-#50	Near well 50 and Newlove south boundary
		C-#4	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#5	Ref: 1991 Phase I
		C-#6	Ref: 2015 letter to RWQCB
		C-#11	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#52	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#57	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#62	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#64	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#68	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#74	Ref: 2015 letter to RWQCB
		C-#77	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#88	Ref: 2015 letter to RWQCB, 1991 Phase I
	52	Other Well Sites	Possible Sumps based on past practice as documented in SME letter
Aboveground Storage Tanks	4	Former Santa Fe Energy Tank Battery	East of Well C-#68
		Former AST	North of Well C-#75
		Former Water Tanks	West of Well C-#146D
		Gitte-Ten, Section 32 (37A) Tank Battery	At Well C-#37A Out-of-Service
	at Well Sites	Former Test Tanks	
Piping/Test Header	4	Former Test Header	NW of Well C-#6
		Test Header/Piping Corridor	West of Well C-#74. Petroleum impacts identified during 2024 sampling event. (TH1)
		Test Site	East of Well C-#75
		Pipe Corridor	South of Well C-#146D
	55,500 lf	Piping	At well pads and along lease roads
Separators	1	Separators	West of Well C-#146.
Former Condensate Trap/ Blow-down			If identified. None currently known.
Chemical Usage/Storage	3	Well C-#6	Corrosion/scale inhibitors
		Well N-#48	
		Well N-#46	
Equipment Storage Areas	3	Electrical/Transformer Storage	at Well C-#6742X
		SW of Well C-#146	
		Well C-#102	
Jack Line	1		Between Wells C-#6 and C-#11
Former Dump Sites	3	Dump Site	North of Well C-#77
		Auto Dump	Newlove Hilltop N-#60
		Dump Site	Newlove Canyon Bottom - TPH impacts identified during 2006 Sampling Event (D-2)
Asphalt/Oiled Lease Roads	86,700 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	65 Well Sites		Near Well Sites

These include the following:

- Oil/gas wells (active, idle, and abandoned) - and associated staining around wells, oil contained in well cellars. There are 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells on the Subject Property. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are considered to be offsite.
- Historical unlined sumps (locations not evident). These were typically excavated near wells to contain drilling mud and the initial fluids produced.
    - A 2015 letter from Santa Maria Energy to the RWQCB identified 22 historic sumps on the Careaga oil and gas lease, 11 of which were located on the Subject Property, based on a review of field records, including a site plan and index with

sump excavation dates (1902-1920), as well as coordinates (see Appendix D). The practice of using unlined in-ground sumps was discontinued in the early 1990's.

- Based on documentation by the oil operator of the presence of 11 sumps at 33 of the wells drilled through 1930, it is estimated that sumps are present at 33% of the wells drilled on the Subject Property, or 22 in total.

  - Newlove #50 sump (abandoned 1994).
  - Possible former sump locations were reported in a 1991 Phase I ESA based on field observations at Careaga Wells 4, 5, 11, 52, 57, 64, 77, and 88 and based on a 1943 aerial photograph east of Careaga Well #68. Most of these were also noted in the 2015 SME letter.

- Former and Existing Tank Batteries
  - Gitte-Ten, TB37A (section 32) – Out-of-service. Formerly contained a wash tank, stock tank, and two wastewater tanks, separators, pumps, test header, and compressor, with surface staining observed around the western pump. Earthen berms were covered with asphaltic coating.
  - Small corroded AST at the road junction north of Careaga 75.
  - Santa Fe Energy Tank Battery (3-500 bbl Baker tanks, 1 water tank, and separation equipment), equipment powered by internal combustion engine.
  - Abandoned tank site northeast of Careaga Well #66.
  - Small Test ASTs with staining at various well sites. Surface spills/staining was reportedly observed in 1991 at test tanks at Careaga Wells #3, #6, #74, and #84.
- Pipelines – including headers and manifolds. Current pipelines are mostly two-inch-diameter, steel, aboveground and located alongside oilfield lease roads. Based on pipeline schematics from a 2013 Spill Prevention Control and Countermeasures (SPCC) Plan and field data from PCEC, as compiled by Land Development Consultants, there are approximately 61,800 linear feet of production pipeline, 53,800 linear feet of gas gathering lines, and 4,000 linear feet of fuel pipelines. These lengths of pipe are co-located measuring a total length of combined pipeline corridors of 55,500 lf. The fuel lines are to power the internal combustion engines at Newlove Wells #46 and #48.
- Separators and Test Headers
  - Test header west of Careaga 74.
  - Former test header near Careaga 6.
  - Former test site near Careaga 75.
- Oil deposits were observed in 1991 along the hillside southwest of Careaga Well #60 and below or downhill of Careaga Wells #52, #63, and #88.
- Jack line between Careaga Wells 6 and 11.
- Oil-impacted soil could have been used as road base or for berm construction as allowed under the beneficial re-use program.

- Equipment storage areas
- Electrical transformers, formerly contained PCBs
- Dump sites in ditches and canyon areas (autos, steel, wood and metal scrap, old equipment and parts), some overgrown with vegetation
- Chemical usage and storage. Chemical products documented as used in the oilfield were petroleum products, detergents, emulsion breaker, and corrosion inhibitor.
- Leaks/spills of crude oil and produced water
- Former condensate traps/blow-down casings
- Roadways – some paved with asphalt. Oilfield waste products like crude oil, tank bottoms, and other oily residues have historically been used on roadways for dust control and maintenance. Sometimes these are mixed with aggregate to create a low-cost road surface.
    - Scattered oil sand or surface staining was reported in 1991 on the surface around the locations of Careaga Wells 3, 6, 52, 60, 63, 64, 74, 77, and 91.

The former small town of Bicknell was formerly located on the Careaga Lease in the 1920s-1940s, but was mostly outside the bounds of the property.

4.1.2 Areas of Known Impacts from Previous Investigations

During Waterstone's 2006 investigation, elevated concentrations of COCs exceeding residential screening levels were detected in soil at four of the 19 features sampled (21%) on the Subject Property, which were:

- Former Dump Site (D-2) on the Newlove Lease (TPH)
- Careaga Well #61 (TPH, VOCs)
- Careaga Well #63 (TPH, VOCs, SVOCs)
- Careaga Well #78 (TPH, VOCs, SVOCs)

During the 2024 Phase II investigation, elevated concentrations of COCs were identified at four of 18 site features sampled (22%), two of which were wells also sampled in 2006:

- Careaga Well #60 (arsenic)
- Careaga Well #63 (TPH and SVOCs in soil, VOCs in soil vapor)
- Careaga Well #78 (TPH and VOCs in soil, VOCs in soil vapor)
- Piping at CL-TH1 (VOCs in soil vapor)

These prior sample locations were surveyed by a licensed surveyor and will be re-staked in the field and targeted to further delineate the nature and extent of the impacts identified during the prior studies.

A summary comparing the findings of the two studies are shown in Table 6.

5.0 Proposed Additional Site Investigation

This workplan proposes the collection of samples based on the individual feature type. Site investigation activities, future remediation, EHS reviews and approvals, and site closure will be performed on a feature by feature and phase by phase basis or, in some cases, groups of features. This work is expected to commence after the County of Santa Barbara approves the Solomon Hills project and prior to the abandonment of oilfield operations and site grading or development activities.

5.1 Pre-Field Activities

Prior to conducting field sampling activities, the following pre-field tasks will be completed:

- Obtain permits from EHS as necessary. EHS requires permits for soil borings that are advanced into or within 10 vertical feet of groundwater. Based on borings installed to date, groundwater was not encountered. Regardless, if a permit is needed, all borings will be backfilled per California Well Standards, Bulletin 74-90, Monitoring Wells, Part III, Section 19(B) or, in the case of vapor probes, per the 2015 DTSC/LARWQCB Soil Gas Investigation Advisory. Permitting requirements, sampling, and soil boring/probe abandonment procedures will be confirmed with EHS.
- Arrange for access with owner/operator.
- Prepare subcontracts for subcontractors.
- Prepare a site-specific health and safety plan in accordance with OSHA 29 CFR 1910.120 (HAZWOPER).
- Perform a site reconnaissance and field inspection to identify and mark each location with white paint or stakes and ribbon as required by Underground Service Alert (USA). Notify USA of drilling and sampling activities a minimum of 72 hours in advance.
- Hold onsite orientation and safety meeting.

5.2 Sampling Plan

A sampling plan for the features identified at the Subject Property to be targeted for investigation is presented in Table 9 and summarized below.

Feature	Sampling Method/Frequency	Minimum Depth (ft. bgs)
Oil Wells	3 trenches or soil borings	10
Former Sumps	2 trenches	5
Former ASTs	2 trenches	5

Feature	Sampling Method/Frequency	Minimum Depth (ft. bgs)
Pipelines	Field screening w/backhoe and PID every 100 linear feet, targeting joints, areas of poor condition, and past repairs. Collect shallow soil samples for analysis where impacts are observed - minimum every 250 lf.	2
Oilfield operations areas (test headers, separators, condensate traps/blow-downs)	Individual trench or soil boring as appropriate	5
Former Dump Sites	2 trenches ea.	5-10
Equipment Storage Areas	Minimum of 2 trenches or borings	2
Asphalt/Oiled Roads, Berms and Hillsides	Visual inspection of surfaces, hand tools, with periodic representative sampling.	0-1

A list of the areas of concern to be targeted for sampling is outlined in Table 6. The site features are shown on Figures 5, 6A, and 6B.

5.3 Field Sampling and Laboratory Analysis

5.3.1 Positioning of Sample Locations

Additional phase II investigation will be performed utilizing hand equipment, drilling soil borings with a hand auger or a direct-push drill rig, or potholing and/or trenching with a backhoe.

Sample locations will be placed as close as possible to the features targeted for sampling while remaining a safe distance from operating equipment, utilities, and underground infrastructure. Details of proposed sample locations are outlined in Table 9.

Survey coordinates will be established for each sample location using maps from past studies, historical aerials photographs, and a field reconnaissance. Coordinates were reported for 11 historical sumps on the Careaga Lease (SME, 2015) which will be used to target these historical features.

5.3.2 Clearance for Subsurface Conflicts

Before drilling/trenching with mechanized equipment, a geophysical survey will be performed by a private locator subcontractor to scan the sampling areas for indications of subsurface pipelines or other utilities. The locations will also checked by oilfield personnel familiar with site operations for potential conflicts with underground infrastructure. Sample locations will be adjusted as needed to avoid subsurface conflicts and maintain a safe distance.

5.3.3 Drilling, Soil Sampling, and Vapor Probe Installation

Drilling, soil sampling, and vapor probe installations will be performed using a direct push drill rig. Each location will be hand-augered to a depth of at least five feet for utility clearance purposes.

Soil samples will be collected using either a hand auger and drive sampler (for samples at depths in the upper five feet) or in acetate, brass, or stainless steel sleeves with a direct push drill rig for depths from 5 to 30 feet below bgs. Samples for analysis of volatiles will be collected using terracore samplers for field preservation of volatiles in accordance with EPA Method 5035. Samples to be analyzed for non-volatiles may be collected in glass jars. Field sampling protocols are included in Appendix E.

Soil samples will be collected during drilling at select depths, typically in five foot intervals beginning at 5 feet bgs. Shallower samples will be collected at aboveground features like equipment storage areas and aboveground pipelines. Other sample depths will be collected if impacted soil is observed at intermediate depths.

The soil will be logged by a field geologist working under the supervision of a California-registered Professional Geologist and screened in the field using a hand-help photo ionization detector (PID) for the presence of volatile compounds.

Soil vapor probe installations, sampling, analysis, and abandonments will be performed in accordance with the 2015 DTSC/RWQCB Soil Gas Investigation Advisory.

Soil vapor probes will be installed at select locations at depths from 10 to 20 feet bgs. Vapor points will be installed at each target depth with tubing extending to the surface. Each probe will be constructed of ¼-inch diameter Nylaflow tubing with an attached porous vapor inlet filter. Each probe will be housed in a sand filter pack consisting of clean, kiln dried #2/12 Monterey sand extending six inches below and six inches above the depth of the vapor point. The filter pack will be topped with a seal of dry bentonite followed by conservatively hydrated bentonite up to the bottom of the next probe filter sand pack. Each separate tube will be labeled at the surface indicating the depth of the vapor point to which it is attached. The probes will be abandoned after sampling by removing the tubing and upper portion of the borehole and plugging the borehole with bentonite. EHS will be consulted for approval prior to the abandonment of soil vapor probes.

All borings will be backfilled per California Well Standards, Bulletin 74-90, Monitoring Wells, Part III, Section 19(B) or, in the case of vapor probes, per the 2015 DTSC/LARWQCB Soil Gas Investigation Advisory.

Equipment will be decontaminated between boreholes and prior to the collection of each sample. The small amount of excess soil cuttings will be placed on existing stockpiles of soil in the oilfield under the Central Coast RWQCB's beneficial reuse policy (General Order No. R3-2020-0006).

5.3.4 Potholing and Trenching

Trenching with a backhoe will also be used for the collection of soil samples. Trenches at oil wells will be excavated to approximately 10 feet deep. Trenches at former tank batteries and sump areas will be excavated to at least 5 feet deep.

Trenches are useful since they allow for direct visual observation of soil stratigraphy, contamination layers, and easier identification of staining, odors, changes in soil color/texture, and buried features such as pipes or tanks. Trenching provides the ability for real-time delineation of soil impacts from the spread of contamination from near-surface releases. They are not ideal for deep contamination (>15 ft), where disturbances are problematic (e.g. active facilities), or in saturated or unstable soils.

Soil samples will be collected at various depths to demonstrate the presence or absence of impacts and delineate its extent where present. If no soil impacts are observed, soil samples will be collected in a minimum of five-foot intervals within the trench. Two perpendicular trenches can be excavated to cover a large area to evaluate features such as historical sumps and former tank batteries.

Where contaminated soil is observed, trenches will be deepened vertically or extended horizontally to delineate the extent of impacts, and additional samples collected for analysis to confirm and document delineation.

Samples will be collected directly from the trench for shallow trenches less than 4 feet deep provided the soil conditions are stable and the competent person determines that there is no potential for cave-in. Field personnel will not enter trenches deeper than 4 feet. For deeper trenches, samples will be collected from an intact block of soil brought to the surface in the backhoe bucket.

Soil conditions, observed contamination, and sample locations will be mapped on trench logs.

Spoil piles and heavy equipment will be kept at least 5 feet away from the edge of the trench. The backhoe bucket will be cleaned of loose soil and decontaminated between locations as needed. The trenches will be backfilled with the native soil.

5.3.5 Mapping and Survey

Soil borings, vapor probes, and trenches will be staked in the field and mapped in relation to pertinent features and landmarks (e.g. wellheads, pipelines, historic surface infrastructure, topography, roadways, etc.). They will also be surveyed by a licensed surveyor. A detailed site plan will be prepared for each individual feature sampled showing the sample location in relation to site features to demonstrate sampling occurred at appropriate locations and for proper interpretation of data.

5.3.6 Laboratory Analysis of Soil Samples

Soil samples will be submitted under proper chain of custody to a State-accredited analytical laboratory and selectively analyzed for the following:

- TPH, extractable – carbon chain identification by EPA Method 8015M – all samples;
- VOCs by EPA Method 5035/8260B – minimum of 1 per feature, and where soil contamination is observed;
- SVOCs or PAHs by EPA Method 8270C/SIM - minimum of 1 per feature, and where soil contamination is observed;
- Title 22 Metals by EPA Methods 6010B/7471A – at shallow surface samples and where elevated TPH is found; and
- PCBs by EPA Method 8082 – at shallow surface samples where former transformers were present, or at equipment storage areas.

Reporting limits will be appropriate to screen the results against applicable residential screening levels.

Select samples will be archived and held at the laboratory for potential add-on analysis based on the initial results. This may include analysis of deeper samples to delineate the vertical extent of contamination or for add-on analyses such as metals or SVOCs where elevated concentrations of TPH are found. Solubility testing (by WET and/or TCLP analyses) will be performed where concentrations exceeded rule of thumb thresholds for determination of hazardous waste.

5.3.7 Soil Vapor Sampling and Analysis

Soil vapor sampling and analysis will be performed by a State-accredited mobile laboratory or collected in batch-certified summa canisters and analyzed at a stationary laboratory. Each probe will be purged, sampled, and soil gas sample collected for laboratory analysis. The samples will be immediately transferred to a mobile analytical laboratory for analysis of VOCs by EPA Method 8260B or transported to a stationary laboratory for analysis.

Soil vapor sampling activities will be performed in accordance with the July 2015 California Environmental Protection Agency (DTSC/Los Angeles and San Francisco Bay Regional Water

Quality Control Board's) Advisory for Active Soil Gas Investigations (*Advisory*). Field protocols and equipment information are included in Appendix E.

6.0 Data Evaluation, Reporting, and Schedule

This section details how the analytical results will be evaluated, the preparation of reports, and the schedule for implementation of this workplan.

6.1 Data Evaluation

Results will be compared to environmental screening levels for residential land use including Tier 1 ESLs, DTSC HERO HHRA Note 3, and/or USEPA RSLs to identify areas that may warrant additional investigation or future remediation. In addition to residential screening levels, ecological risk and leaching to groundwater risk will also be considered.

In addition, a Human Health Screening Evaluation (HHSE) may be performed utilizing soil and soil vapor results to assess whether concentrations of COCs have the potential to impact the health of future occupants of the Subject Property. This HHSE will be performed to estimate the cumulative incremental lifetime cancer risk (ILCR) and non-cancer hazard posed by the chemical concentrations under both a residential and a commercial land use scenario. The HHSE will be performed in accordance with HHRA Note 4 (DTSC, 2022). The goal of the HHSE is to identify which chemicals in soil and soil vapor are driving risk and hazard levels to help evalaute and design remediation strategies. Future land use is expected to be residential and cleanup goals will be in accordance with a residential land use scenario.

6.2 Reporting

Reports documenting the findings of the investigation will be submitted to EHS and will include a description of the work performed, a summary of analytical results, site maps showing all sample locations, detail site maps for each feature, and a discussion of the chemical results. Attachments will include data summary tables, field monitoring sheets, survey data, boring/trench logs, and laboratory reports. Separate reports are expected to be submitted for each phase of development.

All work will be performed under the direction of a State of California registered professional. Additionally, the registered professional will review and sign all technical documents submitted to EHS.

6.3 Schedule and Work Sequencing

Implementation of this workplan is conditioned on the approval of the Solomon Hills Specific Plan by the County of Santa Barbara. Work will follow the sequence of grading phases for the Solomon Hills development as shown on Figure 4. The majority of the site features to be evaluated are within Phase 1 (with 45 oil wells).

EHS will be notified at least 2 weeks prior to the commencement of field sampling activities.

Pre-field activities will require approximately 6 weeks to complete. Field sampling activities for Phase 1 are estimated to require 3 months to complete, with a report of findings completed within 60 days of receipt of final analytical results.

7.0 References

Allan E. Seward Engineering Geology, Inc., 2023. Geotechnical Report, Solomon Hills, General Plan Amendments and Specific Plan. October 20.

DTSC, 2001. Information Advisory for Clean Imported Fill Material. October.

DTSC, 2009. Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process. July 1.

Harding ESE, 2001. Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California. October 22. *Includes excerpts from ENSR Phase II (1995).*

Kearney, 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science, University of California. March.

Santa Maria Energy, 2015. Water Code Directive pursuant to Section 13267 ("Order"), Santa Maria Energy, LL, Careaga Lease, Orcutt Oil Field. December 15.

USGS, 2022. Hydrogeologic Characterization of the San Antonio Creek Valley Watershed, Santa Barbara County, California. Report 2022-5001. January 31.

Waterstone Environmental, Inc., 2004. Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California. September 6.

Waterstone Environmental, Inc., 2007. Summary of Site Characterization Activities for Breitburn Energy's Newlove and Careaga Leases at the Orcutt Hill Oil Field, Orcutt, CA. October 5.

Waterstone Environmental, Inc., 2024. Phase II Investigation and Remedial Action Plan, Solomon Hills, Santa Barbara County, CA. June 27.

Tables

Table 1
Soil Analytical Results for TPH and VOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-W-6	5	1/31/2024	<50	<50	<99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<82	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	<4.1	<4.1	ND
		20		<9.9	**18**	**26**	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.3	<4.7	<4.7	ND
Careaga	CL-W-37A	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<84	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.4	<4.2	<4.2	ND
		15		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
Careaga	CL-W-45	5	1/30/2024	<9.9	**12**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<92	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<4.6	<4.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	<9.9	**17**	**22**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	**46**	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**4.7**	<3.6	<3.6	**12**	<3.6	**12**	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<10	**19**	**30**	<77	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	ND
		10		<9.9	<9.9	<20	<69	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<6.9	<3.5	<3.5	ND
		15		<9.9	<9.9	<20	<69	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-63	10	1/30/2024	<10	<10	<20	<90	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<9.0	<4.5	<4.5	ND
		20		**320**	**3,800**	**1,500**	<89	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		25		<10	**24**	<20	<130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	ND
Careaga	CL-W-74	5	1/30/2024	<9.9	**11**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	**1,400**	**76**	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	**19**	<20	**150**	**85**	**37**	**7.6**	**5.2**	**7.6**	<4.2	<4.2	**5.7**	**4.5**	<4.2	**9.3**	<4.2	**11**	**19**	**30**	ND
		15		<10	**11**	<20	<69	**59**	**9.2**	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-78	10	1/30/2024	<9.9	<9.9	<20	<100	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	ND
		20		**1,600**	**7,200**	**2,800**	<4,600	**730**	**13,000**	**9,400**	<230	**12,000**	**1,800**	**1,200**	**9,100**	<230	<230	<230	**7,200**	<460	<230	<230	ND
		25		<10	<10	<20	<78	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.8	<3.9	<3.9	ND
		30		<9.9	<9.9	<20	<75	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.5	<3.8	<3.8	ND
Careaga	CL-W-B-5	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
Careaga	CL-SEP1	2	1/30/2024	<50	**61**	**120**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.8	<4.4	<4.4	ND
		10		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Soil Analytical Results for TPH and VOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-TF3	2	1/31/2024	<50	<50	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<50	<50	<100	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	ND
		10		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<50	**180**	**370**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	**31**	**23**	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		10		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<9.9	**13**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<73	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	ND
		10		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TR1	2	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<110	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	ND
Newlove	N-W-22	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<73	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.3	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<75	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.5	<3.7	<3.7	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				430[3]	260[3]	12,000[3]	61,000[3]	330[3]	5,900[3]	1,900,000[2]	34,000[3]	3,800[3]	2,400,000[1]	--	3,800,000[2]	1,100,000[3]	950[3]	300,000[2]	2,200,000[1]	550,000[2]	640,000[2]	580,000[3]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
bgs	below ground surface
	Result exceeds screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised April 2025)

2 US EPA Regional Screening Levels (November 2024)

3 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Note: TPH-G screening level applies to TPH-gasoline C4-C12.

Table 2
Soil Analytical Results for SVOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)												
				Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	Benzo(a)anthrac ene	Chrysene	Benzo(b)fluorant hene	Benzo(k)fluorant hene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthr acene	All Other SVOCs	B(a)P-eq
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**260**	<250	<250	2000	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--		
		20		<250	<250	<250	1600	<250	<250	<250	<250	<250	<250	<250	ND	602.5
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	700	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	<250	<250	<250	2100	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<250	<250	<250	670	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--		
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--		
		20		<12,000	**17,000**	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	ND	28,920
		25		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		10		<250	<250	<250	1900	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	1200	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--		
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--		
		20		<12,000	<12,000	**15,000**	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	ND	28,920
		25		--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Soil Analytical Results for SVOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)												
				Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	Benzo(a)anthrac ene	Chrysene	Benzo(b)fluorant hene	Benzo(k)fluorant hene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthr acene	All Other SVOCs	B(a)P-eq
Careaga	CL-FEB1	2	1/31/2024	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--		
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	ND	12,050
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	ND	6025
		2		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		5		--	--	--	--	--	--	--	--	--	--	--		
Careaga	CL-TF3	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	ND	31,330
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	ND	31,330
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	ND	6025
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
Careaga	CL-TR1	2	1/30/2024	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	AD-2	5		<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	ND	1,205
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
		20		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	2000	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	1100	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
		Residential Screening Levels		630,000	180	190,000	19,000,000	1,100	11,000	1,100	11,000	110	1,100	28	--	900

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter

Screening levels taken from SF Bay RWQCB ESLs, DTSC HERO HHRA Note 3, and USEPA RSLs.

B(a)P-eq	benzo(a)pyrene equivalent screening level taken from DTSC 2009 *Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process*. July 1.
bgs	below ground surface
	Detection exceeds screening level

Table 3
Soil Analytical Results for Metals
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals EPA Method 6010B/7471A (mg/Kg) Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.7**	**35**	<0.49	<0.49	--	**7.6**	**1.2**	**2.9**	**1.8**	**1.9**	**3.3**	**9.1**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		**1.0**	**43**	<0.48	**2.2**	--	**10**	**6.2**	**3.3**	**3.9**	**1.6**	**12**	**15**	**13**	ND
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<0.98	**18**	<0.49	<0.49	--	**5.1**	**1.3**	**1.4**	**1.7**	**1.2**	**2.4**	**8**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	**7.2**	**45**	**0.99**	**0.59**	--	**17**	**14**	**2.5**	**5.4**	**7.7**	**18**	**29**	**13**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**13**	**50**	**1.2**	**0.51**	--	**26**	**5.3**	**28**	**5.8**	**2.1**	**50**	**35**	**82**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<0.98	**38**	<0.49	<0.49	--	**6.3**	**1.6**	**3.7**	**2.8**	**1.1**	**4.9**	**7.9**	**11**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		<0.98	**14**	<0.49	<0.49	--	**22**	<0.49	**1.8**	**4.2**	**1.2**	**4.1**	**8.6**	**15**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	**3.1**	**80**	<0.48	<0.48	--	**22**	**1.2**	**4.2**	**8.1**	**2.4**	**7.6**	**27**	**9.8**	ND
		10		**4.2**	**170**	<0.48	**53/56**	**0.69**/<0.25	**26**	**1.7**	**4.9**	**3.1**	**1.9**	**41**	**34**	**39**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.7**	**30**	<0.49	<0.49	--	**17**	**1.9**	**5.6**	**4.4**	**2.3**	**7.4**	**17**	**13**	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<0.98	**32**	<0.49	<0.49	--	**6.5**	**1.8**	**3.2**	**2.3**	**1.2**	**5.9**	**8.8**	**6.5**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		<0.97	**21**	<0.49	<0.49	--	**6.0**	**0.88**	**1.8**	**1.6**	<0.97	**4.7**	**11**	**5.2**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results for Metals
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals EPA Method 6010B/7471A (mg/Kg)														
				Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.0**	**22**	<0.49	<0.49	--	**9.7**	**0.80**	**3.7**	**2.8**	**1.8**	**3.9**	**8.8**	**6.0**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<0.99	**30**	<0.50	<0.50	--	**5.4**	**1.1**	**2.4**	**2.6**	**1.9**	**3.7**	**7.7**	**5.7**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	**1.5**	**29**	<0.49	<0.49	--	**6.6**	**1.4**	**6.5**	**11**	**4.0**	**4.7**	**13**	**16**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF3	2	1/31/2024	**1.2**	**110**	<0.49	**0.74**	--	**7.3**	**1.4**	**4.7**	**3.3**	**2.3**	**6.2**	**10**	**52**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<0.98	**36**	<0.49	**0.89**	--	**4.9**	**0.91**	**3.3**	**4.2**	**4.4**	**3.7**	**7.8**	**13**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	**1.3**	**24**	<0.48	<0.48	--	**7.6**	**0.84**	**3.2**	**3.0**	**1.8**	**3.6**	**8.5**	**8.6**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**3.0**	**12**	<0.48	<0.48	--	**11**	**0.68**	**2.2**	**3.1**	**2.9**	**3.6**	**14**	<4.8	ND
Careaga	CL-TR1	2	1/30/2024	**1.6**	**35**	<0.50	<0.50	--	**6.1**	**1.3**	**3.3**	**2.3**	**3.4**	**4.3**	**10**	<5.0	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	
Newlove	AD-2	5	1/31/2024	2.7	25	<0.49	0.94	--	12	2.4	5.4	6.6	<0.98	9.4	17	28	
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		--	--	--	--	--	--	--	--	--	--	--	--	--	
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**4.8**	**18**	<0.49	<0.49	--	**8.0**	**0.77**	**1.6**	**3.5**	**19**	**4.3**	**15**	**5.8**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.1**	**16**	<0.48	<0.48	--	**10**	**1.2**	**2.0**	**2.6**	**1.5**	**3.6**	**14**	**12**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results for Metals
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals EPA Method 6010B/7471A (mg/Kg) Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.5**	**38**	<0.48	<0.48	**--**	**15**	**2.1**	**4.4**	**3.6**	<0.95	**8.5**	**19**	**16**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				12[3]	15,000[4]	16[4]	78[4]	1/1**	120,000[2]	23[4]	3,100[4]	80[4]	390[4]	820[4]	390[4]	23,000[4]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface
	Detection exceeded screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised April 2025)

2 US EPA Regional Screening Levels (November 2024)

3 The screening level of 12 ppm for arsenic is within the range of naturally-occurring background levels for California soils as cited in Bradford et. al., “Background Concentrations of Trace and Major Elements in California Soils”, Kearney Foundation Special Report, UC-Riverside and CAL-EPA DTSC, March 1996.

4 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 4
Soil Analytical Results for PCBs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	PCBs EPA Method 8082 (µg/kg)
Careaga	CL-T-1	1	1/30/2024	<50
		2		<50
			Residential Screening Level	170

Notes:

ND/<	Not Detected above noted Reporting Limit
PCBs	Polychlorinated Biphenyls
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface

Table 5
Soil Vapor Analytical Results for VOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Volatile Organic Compounds EPA Method 8260B (µg/m^3) Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other VOCs
Careaga	CL-W-6(32)	10	1/31/2024	**9.0**	**45**	**13**	**13**	<40	<12	**17**	<12	**10**	<8	**134**	<8	**37**	**10**	**130**	ND
		20		<8	**31**	**14**	**10**	<40	<12	**12**	<12	<8	<8	**68**	<8	**27**	<8	**99**	ND
Careaga	CL-W-61	10	1/31/2024	**25**	**21**	<8	<8	<40	<12	<8	<12	<8	<8	**221**	<8	**19**	<8	**98**	ND
		15		**67**	**23**	<8	<8	<40	<12	<8	<12	<8	<8	**300**	**46**	**16**	<8	**95**	ND
		15 REP		**74**	**23**	<8	<8	<40	<12	<8	<12	<8	**9.0**	**313**	**76**	**16**	<8	**89**	ND
Careaga	CL-W-63	10	1/31/2024	**12**	**14**	<8	<8	<40	<12	<8	<12	<8	<8	**100**	<8	**13**	<8	**70**	ND
		20		**561**	**2,520**	**2,380**	**483**	<40	<12	**787**	**1,210**	<8	<8	**959**	<8	**1,220**	**301**	**4,127**	ND
Careaga	CL-W-78	10	1/31/2024	**553**	**6,540**	**2,900**	**602**	**67**	**220**	**2,290**	**1,200**	<8	<8	**160**	<8	**2,960**	**23**	**2,588**	ND
		20		NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
Careaga	CL-FEB1	10	1/31/2024	**8**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	--	ND
		15		**16**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**20**	<8	<8	<8	--	ND
Careaga	CL-SEP1	10	1/31/2024	**12**	**56**	**26**	**10**	<40	<12	**27**	**16**	**9.0**	<8	**52**	<8	**40**	<8	**99**	ND
Careaga	CL-TF3	10	1/31/2024	**11**	**9.0**	<8	<8	<40	<12	<8	<12	<8	<8	**33**	<8	**12**	<8	**16**	ND
Careaga	CL-TF4	10	1/31/2024	**9.0**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	**19**	ND
Careaga	CL-TH1	10	1/31/2024	**232,000**	**35,600**	**8,760**	<2400	<12000	<3600	**5,900**	<3600	<2400	<2400	**55,900**	<2400	**9,200**	**4,770**	**71,200**	ND
Newlove	AD-2	10	1/31/2024	**43**	**20**	<8	<8	<40	<12	<8	<12	<8	<8	**106**	<8	**19**	<8	**78**	ND
		20		**17**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**35**	**9**	**9**	<8	--	ND
Indoor Air Screening Level				0.097	1.1	--	--	0.083	--	1,000	--	940	0.46	310	0.48	63	63	100	
Residential Screening Level AF= 0.03				3.2	37	--	--	2.8	--	33,333	--	31,333	15.3	10,333	16	2,100	2,100	3,333	
Residential Screening Level AF= 0.001				97	1,100	--	--	83	--	1,000,000	--	940,000	460	310,000	480	63,000	63,000	100,000	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
µg/m3	micrograms per cubic meter
bgs	below ground surface
NF	No flow

Screening Levels:
DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated April 2025). Unless Otherwise Noted (AF = 0.03).

AF = Attenuation Factor, applied according to Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion (February 2023).
* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (Nov 2024) with appropriate AF because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

Table 6

Summary of Phase II Investigation Features
Waterstone 2006 and 2024
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Grading Phase	Feature/AOC	AOC Quantities			Feature ID/ Description	Sampled During Phase II Investigations			Results Confirmed 18 years later
		Qty.	Sampled	Impacts Identified		2006	2024	Impacts Identified?	
1	Oil Wells	45	15 (33%)	3 of 15 (20%)	NL-#48	X	X	N	6 of 6 Wells Sampled
					C-#6		X	N	
					C-#6 (32)		X	N	
					C-#37A	X	X	N	
					C-#45		X	N	
					C-#60		X	N	
					C-#61	X	X	Y	
					C-#63	X	X	Y	
					C-#74	X	X	N	
					C-#75		X	N	
					C-#76				
					C-#77		X	N	
					C-#78	X	X	Y	
					C-#91	X		N	
					C-#102				
					C-#126				
					C-#136	X		N	
					C-#146				
					C-#146D	X		N	
	Existing/Former Aboveground Storage Tanks - Tank Batteries	4	2 (50%)	0 of 2	Former Santa Fe Energy TB	X	X	N	2 of 2 TBs Sampled
					Gitte-Ten, Section 32 (37A) TB	X	X	N	
	Piping/Test Header	Qty.	2	1 of 2	Test Header/Piping		X	Y	
					Piping Corridor		X	N	
	Separators	2	1 (50%)	0 of 1	Separators		X	N	
	Equipment Storage Areas	3	1 (33%)	0 of 1	Electrical/Transformer Storage		X	N	
	Former Dump Sites	1	1 of 1	0 of 1	Dump Site	X		N	

Table 6

Summary of Phase II Investigation Features
Waterstone 2006 and 2024
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Grading Phase	Feature/AOC	AOC Quantities			Feature ID/ Description	Sampled During Phase II Investigations			Results Confirmed 18 years later
		Qty.	Sampled	Impacts Identified		2006	2024	Impacts Identified?	
2	Oil Wells	3	1 of 3	0 of 1	NL-#60	X		N	
	Former Dump Sites	2	2 (100%)	1 of 2 (50%)	Auto Dump	X	X	N	1 of 1 Dump site sampled
					Dump Site	X		Y	
3	Oil Wells	12	5 of 13 (38%)	0 of 5 (0%)	NL-#46		X	N	
					C-#B-5		X	N	
					C-#46	X		N	
					C-#47A	X		N	
					C-#62	X		N	
Offsite	Oil Wells	5	1 (25%)	0 of 1	NL-#22		X	N	

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 1			
Oil Wells	45	NL-#20-16Z	
		NL-#32-21Z	
		NL-#44	
		NL-#45	
		NL-#48	
		NL-#49	
		NL-#50	
		NL-#89	
		C-#2A	
		C-#3	
		C-#4	
		C-#4A	
		C-#5	
		C-#6	
		C-#6	
		C-#8	
		C-#9	
		C-#11	
		C-#15	
		C-#17	
		C-#36	
		C-#37A	
		C-#45	
		C-#52	
		C-#57	
		C-#60	
		C-#61	Petroleum impacts identified during 2006 sample event
		C-#63	Petroleum impacts identified during 2006 and 2024 sample events
		C-#64	
		C-#66	
		C-#68	
		C-#74	
		C-#75	
		C-#76	
		C-#77	
		C-#78	Petroleum impacts identified during 2006 and 2024 sample events
		C-#84	
		C-#88	
		C-#91	
		C-#102	
		C-#126	
		C-#136	
		C-#146	
		C-#146D	
		C-#6742X	
Sumps	12	Well N-#50	Near well 50 and Newlove south boundary
		C-#4	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#5	Ref: 1991 Phase I
		C-#6	Ref: 2015 letter to RWQCB
		C-#11	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#52	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#57	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#64	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#68	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#74	Ref: 2015 letter to RWQCB
		C-#77	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#88	Ref: 2015 letter to RWQCB, 1991 Phase I
	33	Other Well Sites	Possible Sumps based on past practice as documented in 2015 letter to RWQCB

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 1 (continued)			
Aboveground Storage Tanks	4	Former Santa Fe Energy Tank Battery	East of Well C-#68
		Former AST	North of Well C-#75
		Former Water Tanks	West of Well C-#146D
		Gitte-Ten, Section 32 (37A) Tank Battery	At Well C-#37A. Out-of-Service
	at Well Sites	Former Test Tanks	
Piping/Test Header	4	Former Test Header	NW of Well C-#6
		Test Header/Piping Corridor	West of Well C-#74. Petroleum impacts identified during 2024 sampling event. (TH1)
		Test Site	East of Well C-#75
		Pipe Corridor	South of Well C-#146D
	43,700	Piping, linear feet of pipe runs	At well pads and along lease roads
Separators	1	Separators	West of Well C-#146.
Former Condensate Trap/Blow-down			If identified. None currently known.
Chemical Usage/Storage	2	Well C-#6	
		Well N-#48	
Equipment Storage Areas	3	Electrical/Transformer Storage	at Well C-#6742X
		SW of Well C-#146	
		Well C-#102	
Jack Line	1		Between Wells C-#6 and C-#11
Former Dump Sites	1	Dump Site	North of Well C-#77
Asphalt/Oiled Lease Roads	73,000 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	45 Well Sites		Near Well Sites

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 2			
Oil Wells	3	NL-#60	
		NL-#79	
		NL-#101	
Sumps	3	Well Sites	Possible Sumps based on past practice as documented in 2015 letter to RWQCB
Pipelines	2,800	Piping, linear feet of pipe runs	At well pads and along lease roads
Former Condensate Trap/Blow-down			If identified. None currently known.
Former Dump Sites	2	Auto Dump	Newlove Hilltop N-#60
		Dump Site	Newlove Canyon Bottom - TPH impacts identified during 2006 Sampling Event (D-2)
Asphalt/Oiled Lease Roads	13,700 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	3 Well Sites		Near Well Sites

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 3			
Oil Wells	12	NL-#46	
		NL-#47	
		NL-#98	
		C-#B-5	
		C-#37	
		C-#46	
		C-#47A	
		C-#62	
		C-#65	
		C-#69	
		C-#70	
		C-#7330X	
Sumps	1	C-#62	Ref: 2015 letter to RWQCB, 1991 Phase I
	11	Other Well Sites	Possible Sumps based on past practice as documented in 2015 letter to RWQCB
Pipelines	6,500	Piping, linear feet of pipe runs	At well pads and along lease roads
Former Condensate Trap/Blow-down			If identified. None currently known.
Chemical Usage/Storage	1	Well N-#46	
Asphalt/Oiled Lease Roads	0		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	13 Well Sites		
Offsites			
Oil Wells	5	NL-#22	Newlove Park
		C-#2	Bicknell Road
		C-#1516	
		C-#1615	
		C-#1714	
Pipelines	2,500 lf	Piping, linear feet of pipe runs	Newlove Park. At well pads and along lease roads

Table 8

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Oil Wells	65	NL-#20-16Z	
		NL-#32-21Z	
		NL-#44	
		NL-#45	
		NL-#48	
		NL-#49	
		NL-#50	
		NL-#89	
		C-#2A	
		C-#3	Gas leak identified and repaired in 2010
		C-#4	0.5 bbls of oil spilled on paved road in 1999
		C-#4A	
		C-#5	
		C-#6	
		C-#6	
		C-#8	
		C-#9	
		C-#11	
		C-#15	
		C-#17	
		C-#36	
		C-#37A	
		C-#45	5-10 bbls of oil misted over 100' by 150' area in 1997, 0.5 gal crude oil released to ground around wellhead in 2006
		C-#52	
		C-#57	
		C-#60	History of unpermitted wastewater injections
		C-#61	Petroleum impacts identified during 2006 sample event
		C-#63	Petroleum impacts identified during 2006 and 2024 sample events
		C-#64	
		C-#66	
		C-#68	
		C-#74	
		C-#75	3 gal crude oil released to ground around wellhead in 2006
		C-#76	
		C-#77	
		C-#78	Petroleum impacts identified during 2006 and 2024 sample events
		C-#84	
		C-#88	
		C-#91	
		C-#102	
		C-#126	
		C-#136	
		C-#146	
		C-#146D	
		C-#6742X	
		NL-#60	
		NL-#79	
		NL-#101	
		NL-#46	
		NL-#47	
		NL-#98	
		C-#B-5	Releases reported in 2006 included 2 gal crude oil, 6 bbls produced water into well cellar, 10 gal produced water into well cellar and surrounding area, 50 bbls produced water
		C-#37	20 bbls of oil released to soil and downslope on adjacent drainage/wash in 2007. Impacted soil removed and disposed of offsite.
		C-#46	
		C-#47A	
		C-#62	
		C-#65	
		C-#69	
		C-#70	
		C-#7330X	
		NL-#22	Offsite Newlove Park
		C-#2	Bicknell Road
		C-#1516	
		C-#1615	
		C-#1714	

Table 8

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Sumps	13	Well N-#50	Near well 50 and Newlove south boundary
		C-#4	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#5	Ref: 1991 Phase I
		C-#6	Ref: 2015 letter to RWQCB
		C-#11	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#52	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#57	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#62	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#64	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#68	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#74	Ref: 2015 letter to RWQCB
		C-#77	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#88	Ref: 2015 letter to RWQCB, 1991 Phase I
	52	Other Well Sites	Possible Sumps based on past practice as documented in SME letter
Aboveground Storage Tanks	4	Former Santa Fe Energy Tank Battery	East of Well C-#68
		Former AST	North of Well C-#75
		Former Water Tanks	West of Well C-#146D
		Gitte-Ten, Section 32 (37A) Tank Battery	At Well C-#37A Out-of-Service
	at Well Sites	Former Test Tanks	
Piping/Test Header	4	Former Test Header	NW of Well C-#6
		Test Header/Piping Corridor	West of Well C-#74. Petroleum impacts identified during 2024 sampling event. (TH1)
		Test Site	East of Well C-#75
		Pipe Corridor	South of Well C-#146D
	55,500 lf	Piping	At well pads and along lease roads
Separators	1	Separators	West of Well C-#146.
Former Condensate Trap/ Blow-down			If identified. None currently known.
Chemical Usage/Storage	3	Well C-#6	Corrosion/scale inhibitors
		Well N-#48	
		Well N-#46	
Equipment Storage Areas	3	Electrical/Transformer Storage	at Well C-#6742X
		SW of Well C-#146	
		Well C-#102	
Jack Line	1		Between Wells C-#6 and C-#11
Former Dump Sites	3	Dump Site	North of Well C-#77
		Auto Dump	Newlove Hilltop N-#60
		Dump Site	Newlove Canyon Bottom - TPH impacts identified during 2006 Sampling Event (D-2)
Asphalt/Oiled Lease Roads	86,700 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	65 Well Sites		Near Well Sites

Table 9
Sampling and Analysis Matrix
Solomon Hills, Santa Barbara County, CA

AOC Site Feature	Sampling Method/ Frequency	Soil								Soil Vapor		Comments
		TPH (8015M)		VOCs (8260B)		SVOCs (8270C) Title 22 Metals (6010B/7471A)		PCBs (8082)		VOCs (8260B)		
		Qty.	Depths	Qty.	Depths	Qty.	Depths	Qty.	Depths	Qty.	Depths	
Oil Wells (active, abandoned, idle)	3 Borings or 3 Trenches extending outward from ea. well	2	5,10	1	5	1	5	--	--	1	5,15	Soil Vapor at 20% of wells, and at wells with significant soil impacts
Former Sumps	2 Perpendicular Trenches ea.	2	2,5	1	5	2	5	--	--	--	--	Delineate vertical and lateral extent where impacts are identified.
Former ASTs and Tank Batteries	2 Trenches ea.	2	2,5	1	5	1	2	--	--	1	5	
Pipelines	Field Screening+PID/100 lf 1 sample/250 lf	2	2,5	1	5	10%	--	--	--	1	5	Soil vapor at 20% of soil sample locations.
Separators/Test Headers	1 boring or pothole ea.	2	2,5	1	5	1	2	--	--	1	5	At subset of locations
Condensate Traps/Blow-downs	1 boring or pothole ea.	2	2,5	1	5	1	2	--	--	1	5	At subset of locations
Chemical Usage/Storage	1 boring or pothole ea.	2	2,5	1	5	--	--	--	--	--	--	--
Former Dump Sites	2 perpendicular trenches ea.	2	5,10	1	10	1	5	--	--	--	--	--
Equipment Storage Areas	1-3 borings or trenches, depending on size	1-3	1,3	1	3	1	1	1	1	--	--	--
Asphalt/Oiled Roads	Visual Inspection, Grab Sample, 2-3 from representative areas for ea. type	1	1	--	--	1	0.5	--	--	--	--	--
Oiled Berms and Areas Around Well Sites	Visual Inspection, Grab Sample, 2-3 from representative areas for ea. type	1	1	--	--	1	0.5	--	--	--	--	--

Notes:

AOC - area of concern

ASTs - aboveground storage tank

TPH - total petroleum hydrocarbons

VOCs - volatile organic compounds

SVOCs - semi-volatile organic compounds

PCBs - poly chlorinated biphenyls

-- - none proposed

lf - linear feet

Depths are in feet below existing ground surface

Figures

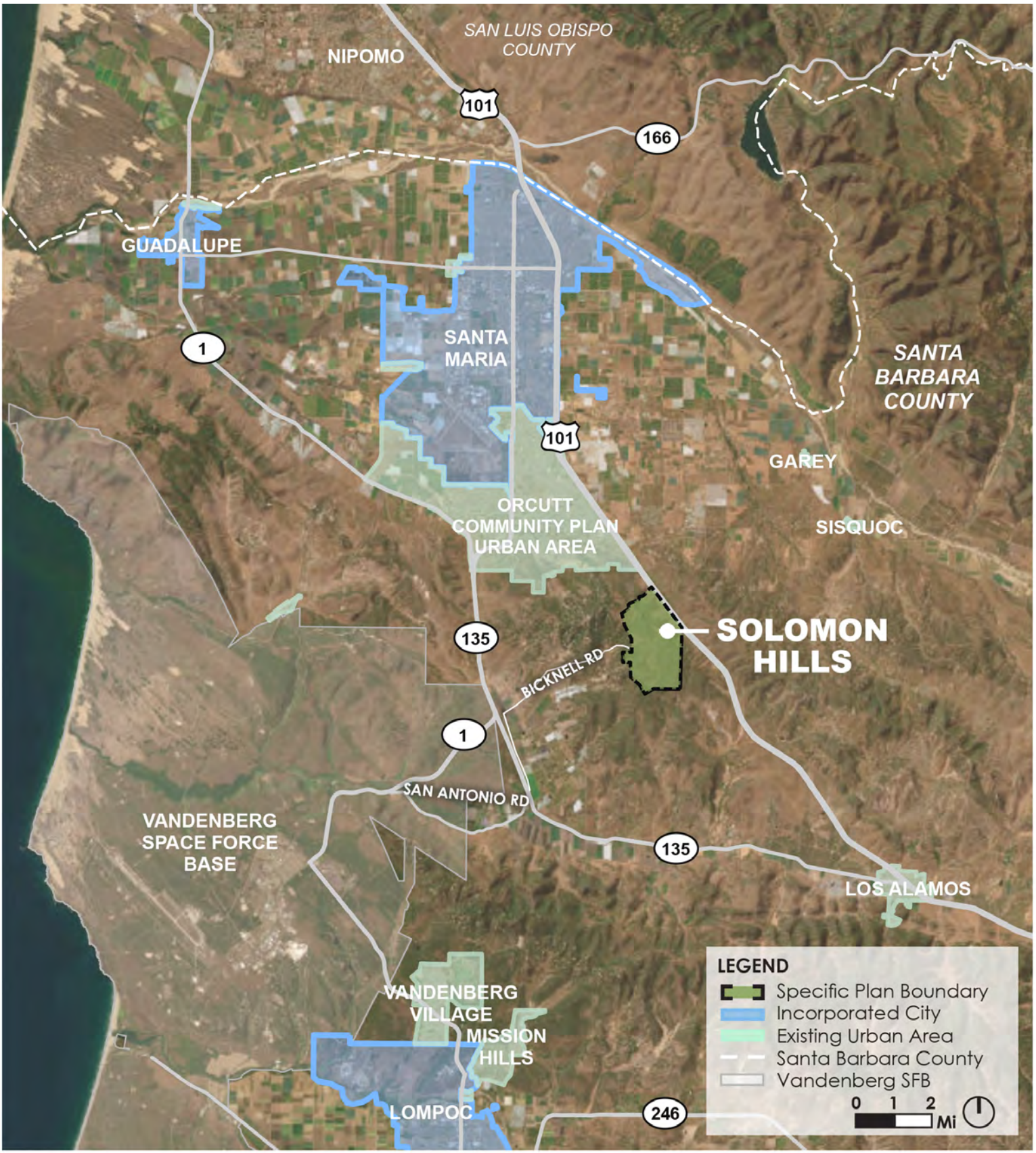


Figure 1
Subject Property Location Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: HLF	Project No: 25-126
Approved By: MS	Date: 8/12/25

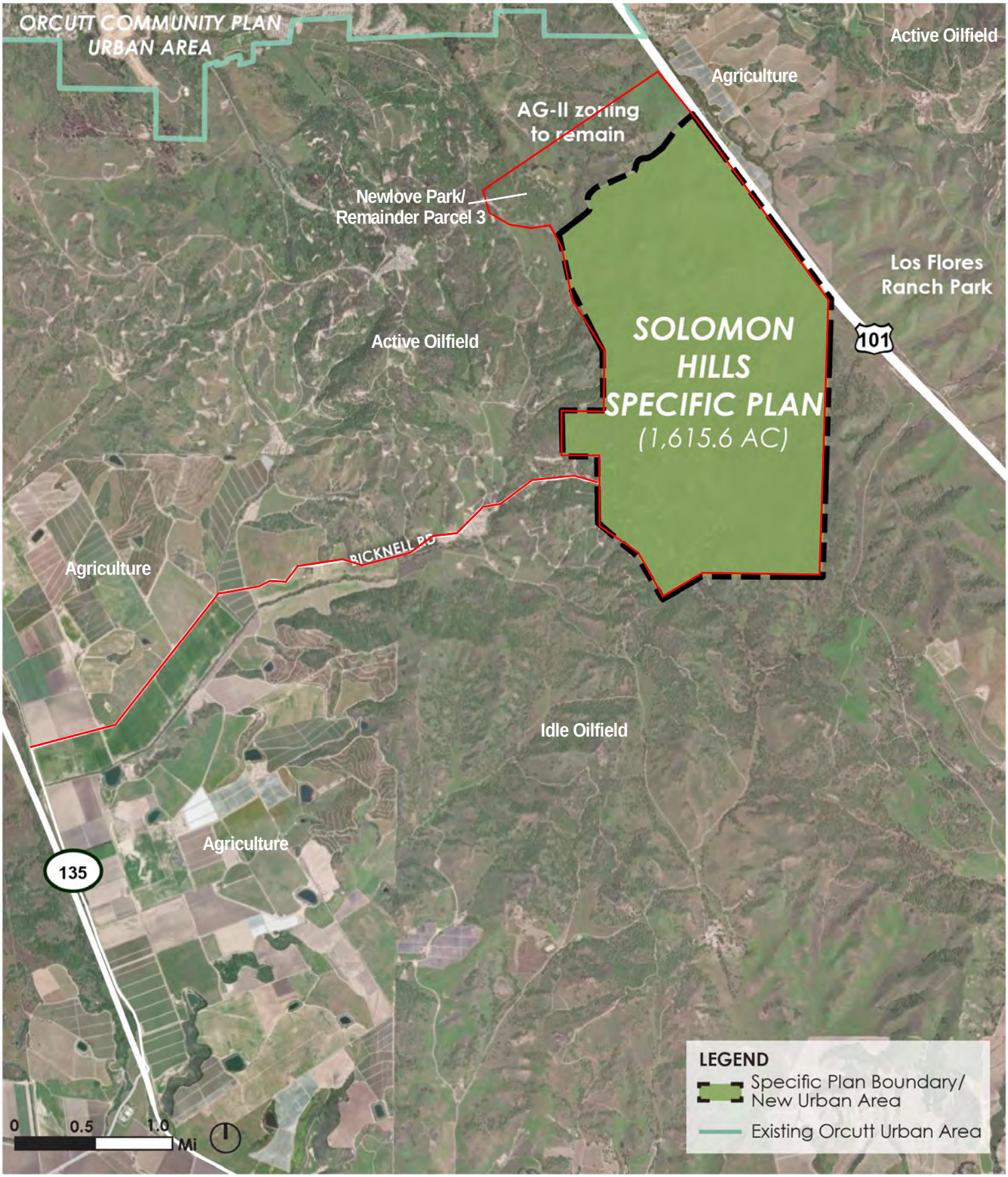


Figure 2
Subject Property Vicinity Map

Solomon Hills
Santa Barbara County, CA

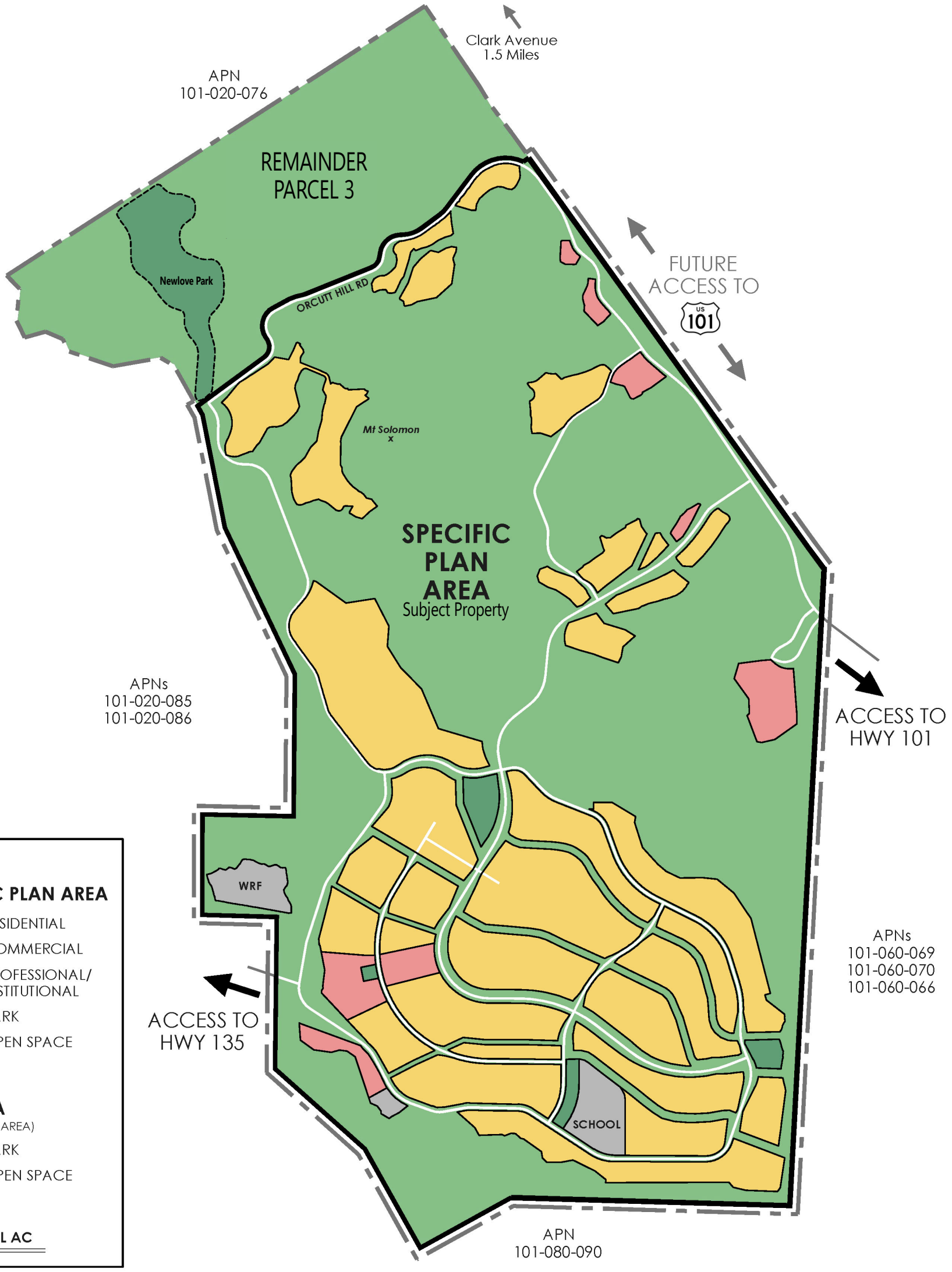
Legend

Approximate Subject Property Boundary, Incl. Bicknell Road

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: HLF	Project No: 25-126
Approved By: MS	Date: 8/12/25

SOLOMON HILLS
AREA DESIGNATIONS MAP
SANTA BARBARA COUNTY, CA



LEGEND

SPECIFIC PLAN AREA

546 AC	RESIDENTIAL
41 AC	COMMERCIAL
25 AC	PROFESSIONAL/ INSTITUTIONAL
41 AC	PARK
963 AC	OPEN SPACE
1,616 AC	

NEWLOVE AREA
(OUTSIDE SPECIFIC PLAN AREA)

31 AC	PARK
256 AC	OPEN SPACE
287 AC	

1,903 TOTAL AC

Figure 3
Development Map

Solomon Hills
Santa Barbara County, CA

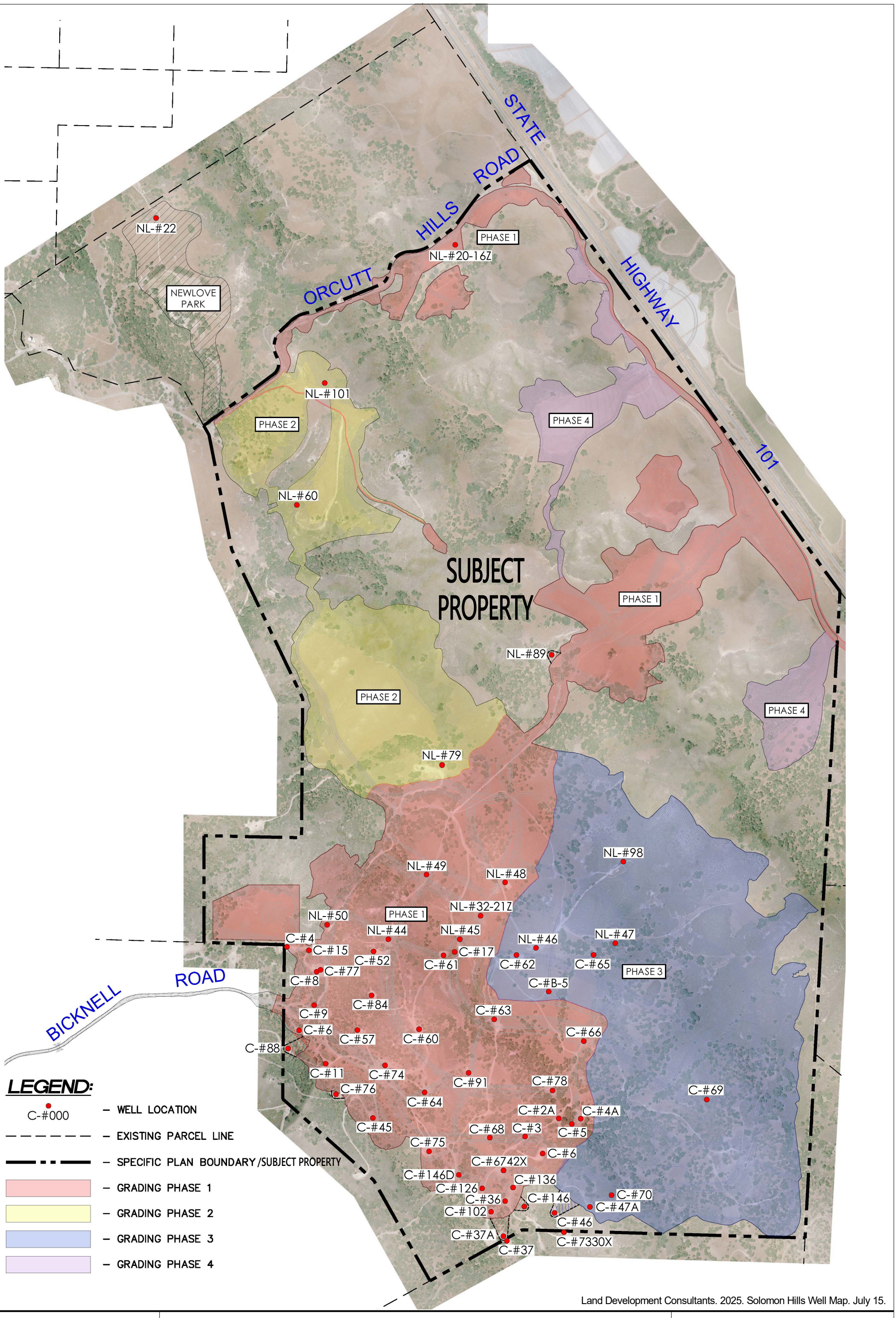
Legend

NORTH

Approximate Scale
0 mi 0.125 mi 0.25 mi

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST., ANAHEIM, CA

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/14/2025



Land Development Consultants. 2025. Solomon Hills Well Map. July 15.

Figure 4
Grading Plan

Solomon Hills
Santa Barbara County, CA

NORTH

Approximate Scale
0' 500' 1000'

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/14/25

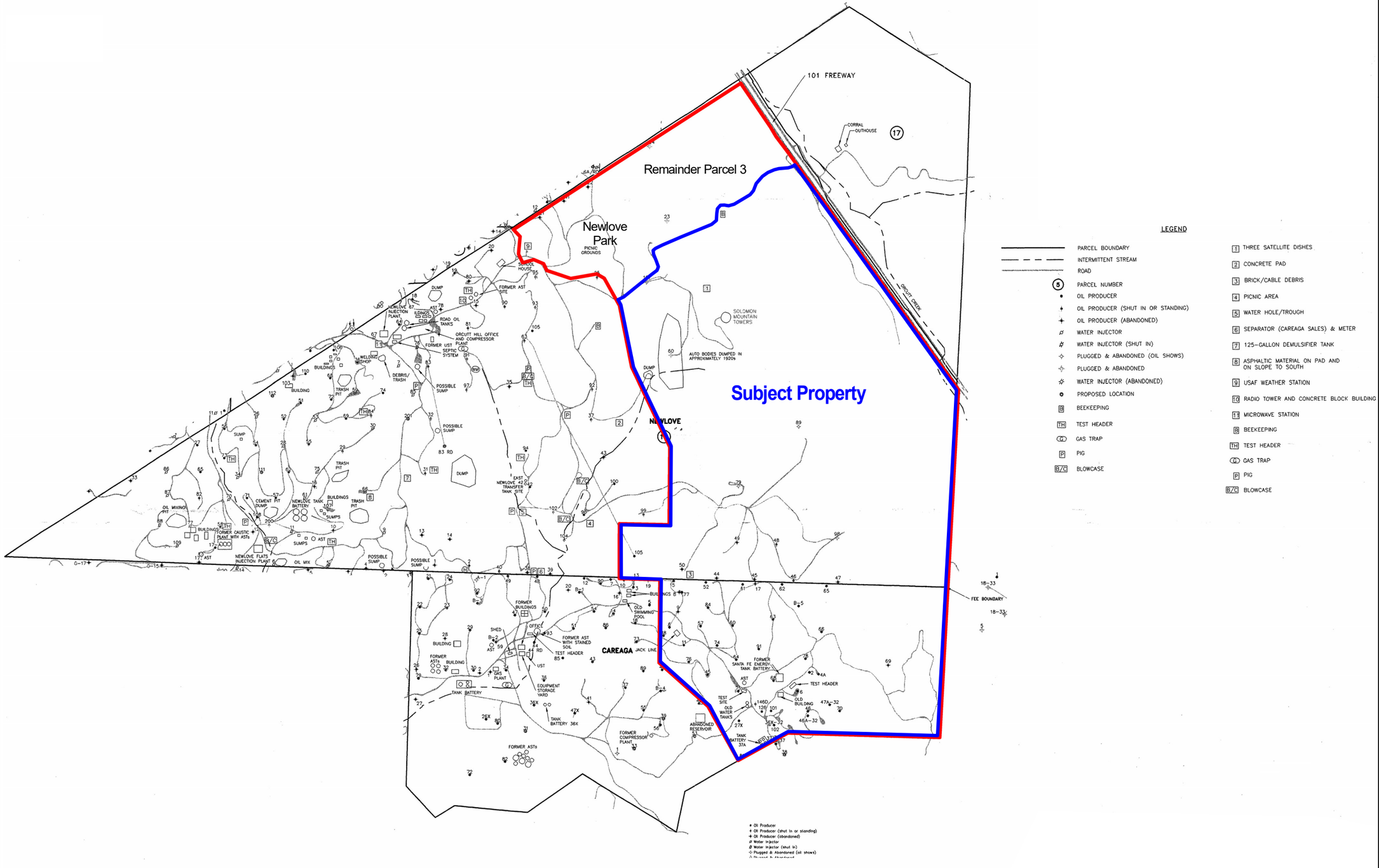
Figure 5
Environmental Features Site Plan

Solomon Hills
Santa Barbara County, CA

Legend

Existing Parcel Line

Subject Property



LEGEND

- PARCEL BOUNDARY
- INTERMITTENT STREAM
- ROAD
- (5) PARCEL NUMBER
- OIL PRODUCER
- OIL PRODUCER (SHUT IN OR STANDING)
- OIL PRODUCER (ABANDONED)
- WATER INJECTOR
- WATER INJECTOR (SHUT IN)
- PLUGGED & ABANDONED (OIL SHOWS)
- PLUGGED & ABANDONED
- WATER INJECTOR (ABANDONED)
- PROPOSED LOCATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- [G] GAS TRAP
- [P] PIG
- [B/C] BLOWCASE
- [1] THREE SATELLITE DISHES
- [2] CONCRETE PAD
- [3] BRICK/CABLE DEBRIS
- [4] PICNIC AREA
- [5] WATER HOLE/TROUGH
- [6] SEPARATOR (CAREAGA SALES) & METER
- [7] 125-GALLON DEMULSIFIER TANK
- [8] ASPHALTIC MATERIAL ON PAD AND ON SLOPE TO SOUTH
- [9] USAF WEATHER STATION
- [10] RADIO TOWER AND CONCRETE BLOCK BUILDING
- [11] MICROWAVE STATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- [G] GAS TRAP
- [P] PIG
- [B/C] BLOWCASE

Reference: Harding ESE Env Site Assessment, Orcutt Hill Area, Santa Barbara County, California. Figure 2, October 22, 2001.

NORTH

0 1000' 2000'

Approximate Scale

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

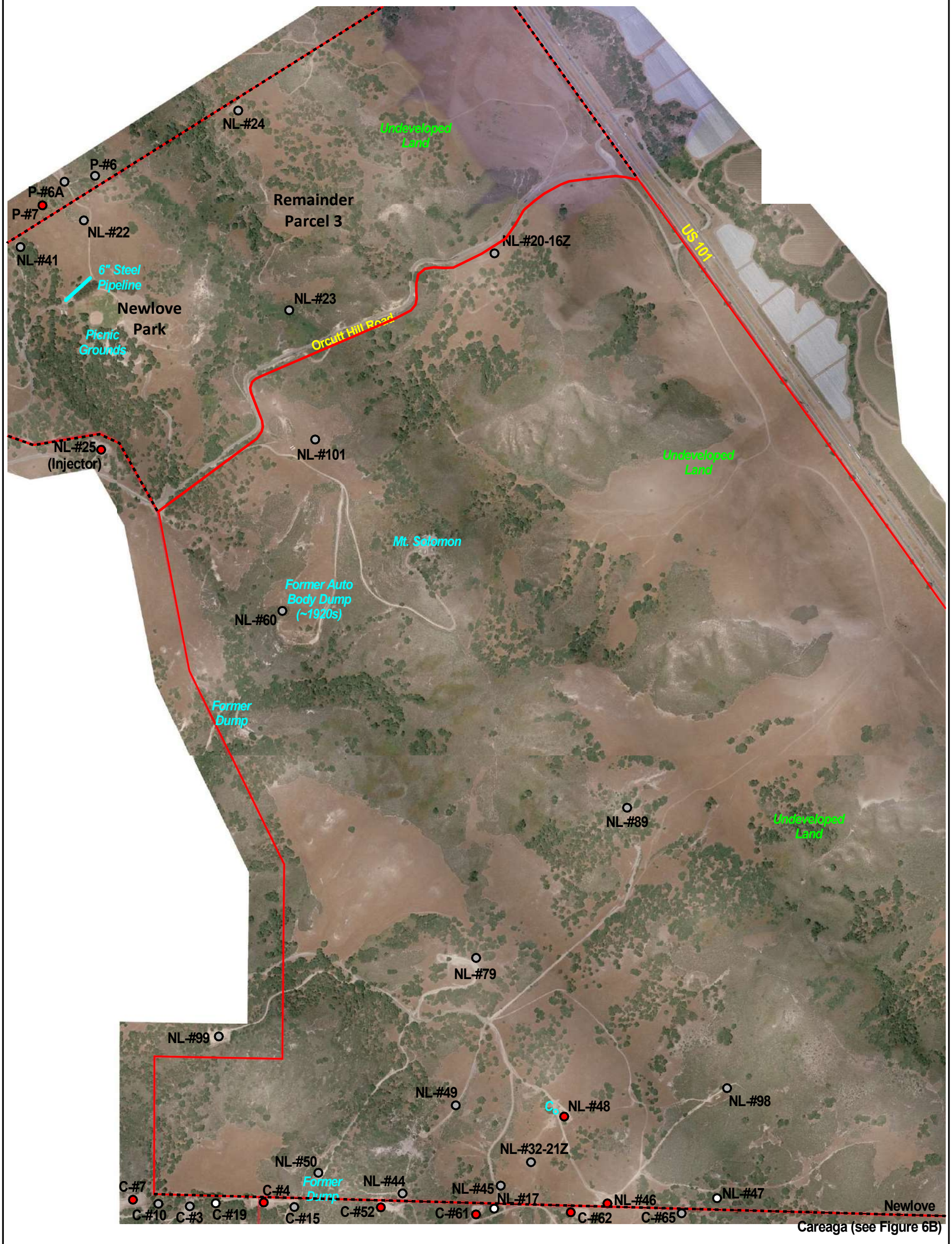


Figure 6A
Subject Property Detail Map - North (Newlove Area)

Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- C - Chemical Usage/Poly Drum
- 6" Steel Pipeline — Site Feature

NORTH

Approximate Scale

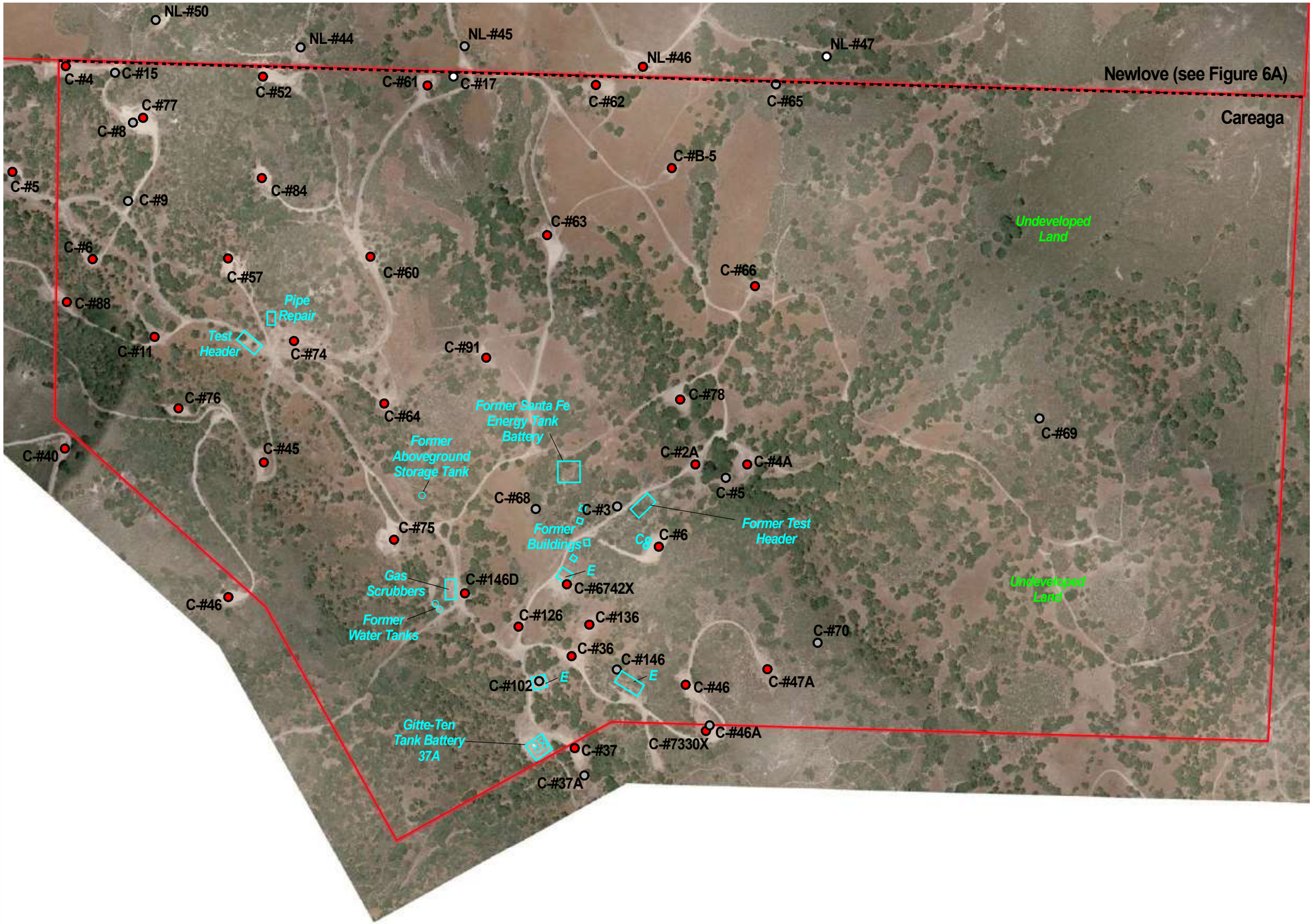
0' 400' 800'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/13/25

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

Figure 6B
Subject Property Detail Map - South (Careaga Area)



Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Pipe Repair — Site Feature

E - Equipment Storage Area
C - Chemical Usage/Poly Drum

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

NORTH

Approximate Scale
0' 250' 500'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/13/25

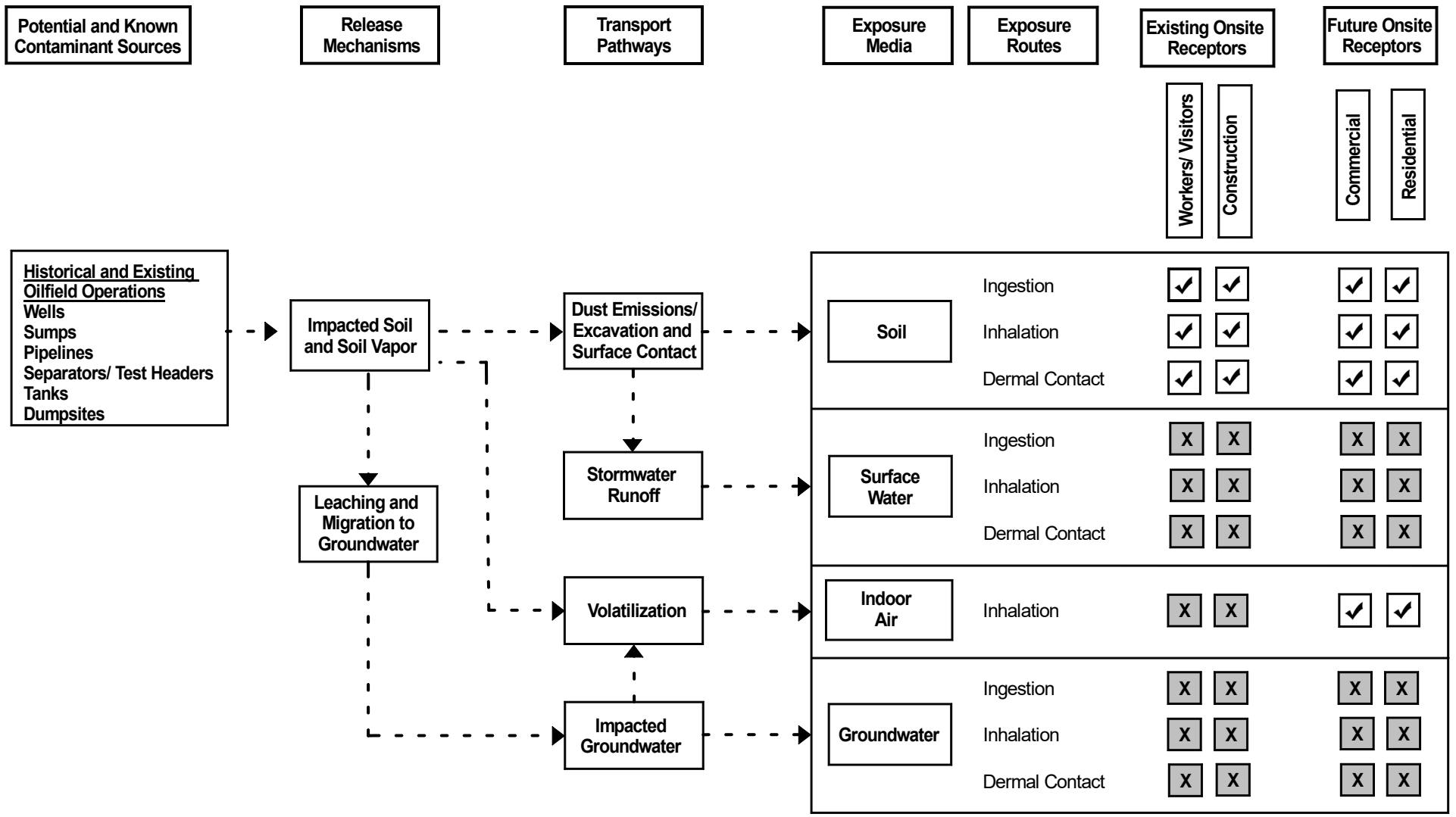


Figure 7
Conceptual Site Model Flowchart

Solomon Hills
Santa Barbara County, CA

Legend

- - → Potential pathway

✓ Exposure pathway may be complete for this receptor

X Exposure pathway is incomplete for this receptor

* Though shallow groundwater at the Subject Property could potentially be used as a drinking water source due to its municipal beneficial use designation, there are no drinking water wells at the Subject Property and it is unlikely that the groundwater beneath the Subject Property will be directly sourced for on-site use.

Waterstone Environmental, Inc.
2936 East Coronado Street
Anaheim, California 92806

Drafted By: SA	Version: 1.0
Approved By: MS	Date: 7-25-2025

Appendix A

Oil Well Summary and Status

SOLOMON HILLS WELL MAP

JULY 8, 2025

SHEET INDEX:

SHEET 1 – SPECIFIC PLAN AREA AND NEWLOVE PARK

SHEET 2 – BICKNELL ROAD

SHEET 3 – WELL ABANDONMENT PHASING TABLES

STATE HIGHWAY 101

ORCUTT HILLS ROAD

BICKNELL ROAD

NEWLOVE PARK

NL-#22

NL-#20-16Z

NL-#101

NL-#60

NL-#89

NL-#79

NL-#98

NL-#49

NL-#48

NL-#32-21Z

NL-#50

NL-#44

NL-#45

NL-#46

NL-#47

C-#4

C-#15

C-#52

C-#17

C-#61

C-#62

C-#65

C-#77

C-#8

C-#B-5

C-#84

C-#63

C-#9

C-#6

C-#57

C-#60

C-#66

C-#88

C-#11

C-#74

C-#91

C-#78

C-#69

C-#76

C-#64

C-#2A

C-#4A

C-#45

C-#68

C-#3

C-#5

C-#75

C-#6

C-#6742X

C-#146D

C-#136

C-#126

C-#36

C-#146

C-#70

C-#102

C-#47A

C-#46

C-#37A

PHASE 1

PHASE 2

PHASE 3

PHASE 4

N

0 1,000 2,000

SCALE IN FEET
1 inch = 1,000 ft.

SEE SHEET 2 FOR BICKNELL ROAD WELLS

LEGEND:

C-#000 – WELL LOCATION

– EXISTING PARCEL LINE

– SPECIFIC PLAN BOUNDARY

– GRADING PHASE 1

– GRADING PHASE 2

– GRADING PHASE 3

– GRADING PHASE 4

WELL LOCATIONS SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

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forward thinking, forward planning
1520 Brookhollow Dr., Ste 33, Santa Ana, CA 92705
www.ldccivilengineers.com

SOLOMON HILLS WELL MAP

JULY 8, 2025

PHASE 2

PHASE 1

PHASE 2

NL-#101

NL-#60

NL-#79

NL-#49

NL-#48

NL-#32-21Z

NL-#50

NL-#44

NL-#45

C-#4

C-#15

C-#52

C-#17

C-#61

C-#77

C-#8

C-#84

C-#63

C-#9

C-#6

C-#57

C-#60

C-#88

C-#11

C-#74

C-#91

C-#76

C-#64

C-#45

C-#68

C-#75

C-#6742X

C-#146D

C-#126

C-#36

C-#102

C-#37A

BICKNELL ROAD

C-#1714

C-#1615

C-#1516

C-#2

BICKNELL ROAD WELLS

N

0 1,000 2,000

SCALE IN FEET
1 inch = 1,000 ft.

WELL LOCATIONS SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

LEGEND:

C-#000 – WELL LOCATION

– EXISTING PARCEL LINE

– SPECIFIC PLAN BOUNDARY

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www.ldccivilengineers.com

SOLOMON HILLS WELL MAP

JULY 8, 2025

PHASE 1 SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
1	CAREAGA	C-#2A	0408322208	ACTIVE
2	CAREAGA	C-#3	0408322209	PLUGGED
3	CAREAGA	C-#4	0408302040	ACTIVE
4	CAREAGA	C-#4A	0408322210	ACTIVE
5	CAREAGA	C-#5	0408322211	PLUGGED
6	CAREAGA	C-#6	0408302042	ACTIVE
7	CAREAGA	C-#6	0408322220	ACTIVE
8	CAREAGA	C-#8	0408302044	PLUGGED
9	CAREAGA	C-#9	0408302045	PLUGGED
10	CAREAGA	C-#11	0408302047	ACTIVE
11	CAREAGA	C-#15	0408302051	PLUGGED
12	CAREAGA	C-#17	0408302053	CANCELED
13	CAREAGA	C-#36	0408320677	ACTIVE
14	CAREAGA	C-#37A	0408321259	PLUGGED
15	CAREAGA	C-#45	0408302079	ACTIVE
16	CAREAGA	C-#52	0408302086	ACTIVE
17	CAREAGA	C-#57	0408302091	ACTIVE
18	CAREAGA	C-#60	0408302094	ACTIVE
19	CAREAGA	C-#61	0408302095	ACTIVE
20	CAREAGA	C-#63	0408302097	ACTIVE
21	CAREAGA	C-#64	0408302098	ACTIVE
22	CAREAGA	C-#66	0408302100	ACTIVE
23	CAREAGA	C-#68	0408302102	PLUGGED
24	CAREAGA	C-#74	0408302107	ACTIVE
25	CAREAGA	C-#75	0408302108	ACTIVE
26	CAREAGA	C-#76	0408302109	ACTIVE
27	CAREAGA	C-#77	0408302110	ACTIVE
28	CAREAGA	C-#78	0408302111	ACTIVE
29	CAREAGA	C-#84	0408302117	ACTIVE
30	CAREAGA	C-#88	0408302120	ACTIVE
31	CAREAGA	C-#91	0408302123	ACTIVE
32	CAREAGA	C-#102	0408322215	PLUGGED
33	CAREAGA	C-#126	0408322108	ACTIVE
34	CAREAGA	C-#136	0408321379	ACTIVE
35	CAREAGA	C-#146	0408321957	PLUGGED
36	CAREAGA	C-#146D	0408322196	ACTIVE
37	CAREAGA	C-#6742X	0408322214	ACTIVE
38	NEWLOVE	NL-#20-16Z	0408322439	PLUGGED
39	NEWLOVE	NL-#32-21Z	0408322428	PLUGGED
40	NEWLOVE	NL-#44	0408302299	PLUGGED
41	NEWLOVE	NL-#45	0408302300	PLUGGED
42	NEWLOVE	NL-#48	0408302303	ACTIVE
43	NEWLOVE	NL-#49	0408302304	PLUGGED
44	NEWLOVE	NL-#50	0408302305	PLUGGED
45	NEWLOVE	NL-#89	0408302331	PLUGGED

PHASE 1 OFFSITES - Newlove Park & Bicknell Road

#	LEASE NAME	WELL #	API #	STATUS
46	CAREAGA-Bicknell	C-#2	0408322348	PLUGGED
47	CAREAGA-Bicknell	C-#1516	0408322646	IDLE
48	CAREAGA-Bicknell	C-#1615	0408322654	IDLE
49	CAREAGA-Bicknell	C-#1714	0408322651	ACTIVE
50	NEWLOVE-Park	NL-#22	0408302281	PLUGGED

PHASE 2 - SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
51	NEWLOVE	NL-#60	0408302313	PLUGGED
52	NEWLOVE	NL-#79	0408302324	PLUGGED
53	NEWLOVE	NL-#101	0408302341	PLUGGED

PHASE 3 - SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
54	CAREAGA	C-#B-5	0408320317	IDLE
55	CAREAGA	C-#46	0408321223	ACTIVE
56	CAREAGA	C-#47A	0408321822	IDLE
57	CAREAGA	C-#62	0408302096	ACTIVE
58	CAREAGA	C-#65	0408302099	PLUGGED
59	CAREAGA	C-#69	0408302103	PLUGGED
60	CAREAGA	C-#70	0408302104	PLUGGED
61	NEWLOVE	NL-#46	0408302301	ACTIVE
62	NEWLOVE	NL-#47	0408302302	CANCELED
63	NEWLOVE	NL-#98	0408302339	PLUGGED

PHASE 4 - SPECIFIC PLAN BOUNDARY

NO WELLS

WELL DATA SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

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www.ldccivilengineers.com

SHEET 1 OF 3

SOLOMON HILLS WELL MAP

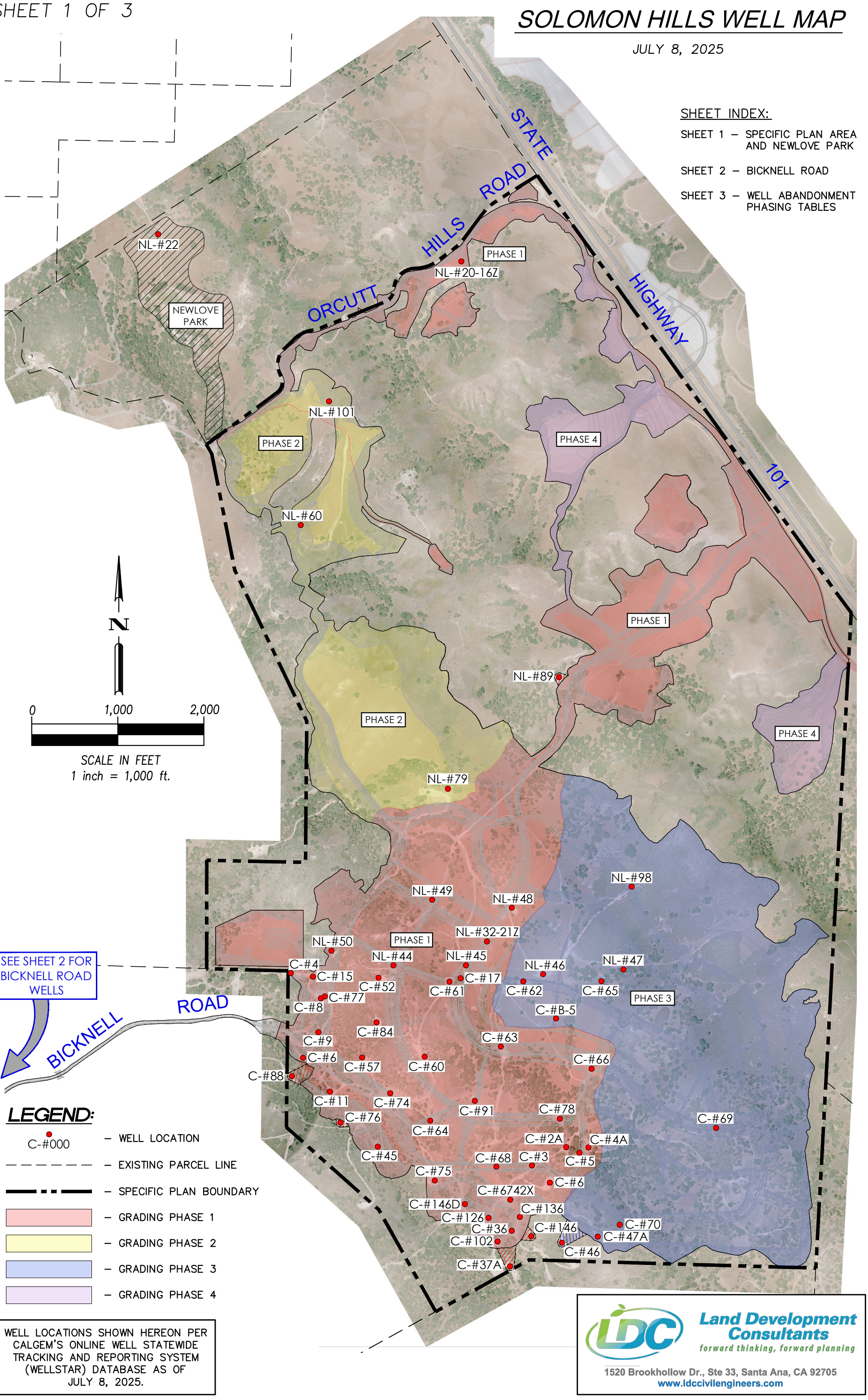
JULY 8, 2025

SHEET INDEX:

SHEET 1 – SPECIFIC PLAN AREA AND NEWLOVE PARK

SHEET 2 – BICKNELL ROAD

SHEET 3 – WELL ABANDONMENT PHASING TABLES



LEGEND:

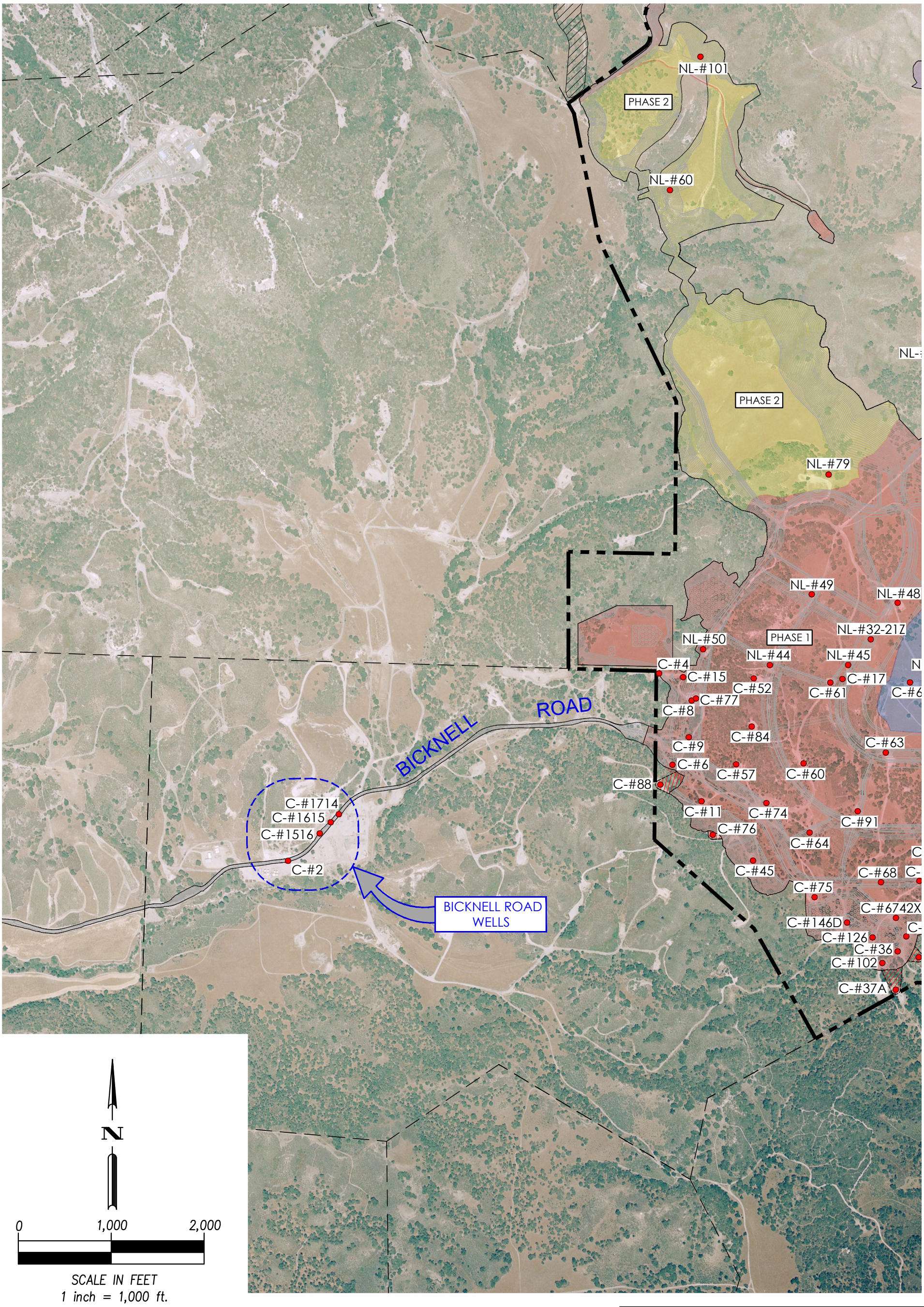
- C-#000 – WELL LOCATION
- – EXISTING PARCEL LINE
- – SPECIFIC PLAN BOUNDARY
- – GRADING PHASE 1
- – GRADING PHASE 2
- – GRADING PHASE 3
- – GRADING PHASE 4

WELL LOCATIONS SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

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SOLOMON HILLS WELL MAP

JULY 8, 2025



WELL LOCATIONS SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

LEGEND:

C-#000 – WELL LOCATION

– – – – – – EXISTING PARCEL LINE

SPECIFIC PLAN BOUNDARY

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www.ldccivilengineers.com

SOLOMON HILLS WELL MAP

JULY 8, 2025

PHASE 1 SPECIFIC PLAN BOUNDARY

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4	CAREAGA	C-#4A	0408322210	ACTIVE
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6	CAREAGA	C-#6	0408302042	ACTIVE
7	CAREAGA	C-#6	0408322220	ACTIVE
8	CAREAGA	C-#8	0408302044	PLUGGED
9	CAREAGA	C-#9	0408302045	PLUGGED
10	CAREAGA	C-#11	0408302047	ACTIVE
11	CAREAGA	C-#15	0408302051	PLUGGED
12	CAREAGA	C-#17	0408302053	CANCELED
13	CAREAGA	C-#36	0408320677	ACTIVE
14	CAREAGA	C-#37A	0408321259	PLUGGED
15	CAREAGA	C-#45	0408302079	ACTIVE
16	CAREAGA	C-#52	0408302086	ACTIVE
17	CAREAGA	C-#57	0408302091	ACTIVE
18	CAREAGA	C-#60	0408302094	ACTIVE
19	CAREAGA	C-#61	0408302095	ACTIVE
20	CAREAGA	C-#63	0408302097	ACTIVE
21	CAREAGA	C-#64	0408302098	ACTIVE
22	CAREAGA	C-#66	0408302100	ACTIVE
23	CAREAGA	C-#68	0408302102	PLUGGED
24	CAREAGA	C-#74	0408302107	ACTIVE
25	CAREAGA	C-#75	0408302108	ACTIVE
26	CAREAGA	C-#76	0408302109	ACTIVE
27	CAREAGA	C-#77	0408302110	ACTIVE
28	CAREAGA	C-#78	0408302111	ACTIVE
29	CAREAGA	C-#84	0408302117	ACTIVE
30	CAREAGA	C-#88	0408302120	ACTIVE
31	CAREAGA	C-#91	0408302123	ACTIVE
32	CAREAGA	C-#102	0408322215	PLUGGED
33	CAREAGA	C-#126	0408322108	ACTIVE
34	CAREAGA	C-#136	0408321379	ACTIVE
35	CAREAGA	C-#146	0408321957	PLUGGED
36	CAREAGA	C-#146D	0408322196	ACTIVE
37	CAREAGA	C-#6742X	0408322214	ACTIVE
38	NEWLOVE	NL-#20-16Z	0408322439	PLUGGED
39	NEWLOVE	NL-#32-21Z	0408322428	PLUGGED
40	NEWLOVE	NL-#44	0408302299	PLUGGED
41	NEWLOVE	NL-#45	0408302300	PLUGGED
42	NEWLOVE	NL-#48	0408302303	ACTIVE
43	NEWLOVE	NL-#49	0408302304	PLUGGED
44	NEWLOVE	NL-#50	0408302305	PLUGGED
45	NEWLOVE	NL-#89	0408302331	PLUGGED

PHASE 1 OFFSITES - Newlove Park & Bicknell Road

#	LEASE NAME	WELL #	API #	STATUS
46	CAREAGA-Bicknell	C-#2	0408322348	PLUGGED
47	CAREAGA-Bicknell	C-#1516	0408322646	IDLE
48	CAREAGA-Bicknell	C-#1615	0408322654	IDLE
49	CAREAGA-Bicknell	C-#1714	0408322651	ACTIVE
50	NEWLOVE-Park	NL-#22	0408302281	PLUGGED

PHASE 2 - SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
51	NEWLOVE	NL-#60	0408302313	PLUGGED
52	NEWLOVE	NL-#79	0408302324	PLUGGED
53	NEWLOVE	NL-#101	0408302341	PLUGGED

PHASE 3 - SPECIFIC PLAN BOUNDARY

#	LEASE NAME	WELL #	API #	STATUS
54	CAREAGA	C-#B-5	0408320317	IDLE
55	CAREAGA	C-#46	0408321223	ACTIVE
56	CAREAGA	C-#47A	0408321822	IDLE
57	CAREAGA	C-#62	0408302096	ACTIVE
58	CAREAGA	C-#65	0408302099	PLUGGED
59	CAREAGA	C-#69	0408302103	PLUGGED
60	CAREAGA	C-#70	0408302104	PLUGGED
61	NEWLOVE	NL-#46	0408302301	ACTIVE
62	NEWLOVE	NL-#47	0408302302	CANCELED
63	NEWLOVE	NL-#98	0408302339	PLUGGED

PHASE 4 - SPECIFIC PLAN BOUNDARY

NO WELLS

WELL DATA SHOWN HEREON PER CALGEM'S ONLINE WELL STATEWIDE TRACKING AND REPORTING SYSTEM (WELLSTAR) DATABASE AS OF JULY 8, 2025.

Land Development Consultants
forward thinking, forward planning
1520 Brookhollow Dr., Ste 33, Santa Ana, CA 92705
www.ldccivilengineers.com

Appendix B

Excerpts from Previous Reports

WATERSTONE ENVIRONMENTAL, INC.

2936 East Coronado Street * Anaheim, CA 92806
714-414-1122 * Fax: 714-414-1166
E:Mail: nberesky@waterstone-env.com

October 5, 2007

Randy Wheeler
Principal
Pacific Terra Holdings, LLC
3010 Old Ranch Parkway, Suite 450
Seal Beach, CA 90740

Jackson Washburn
President
BreitBurn Land Co.
515 South Flower St., Suite 4800
Los Angeles, CA

RE: Summary of Site Characterization Activities for BreitBurn Energy's Newlove and Careaga Leases at the Orcutt Oil Field, Orcutt, CA

Dear Sirs:

At your request, Waterstone Environmental, Inc. (Waterstone) has prepared this summary report of site characterization activities Waterstone performed at two of BreitBurn Energy's leases located in the Orcutt Oilfield. Waterstone performed soil sampling in and adjacent to over 100 oilfield features located on the Newlove and Careaga Leases (Subject Property) to evaluate environmental conditions and determine whether remedial action is required.

Introduction

The Orcutt Hill Oilfield is located in the Santa Maria Basin in the northwestern portion of Santa Barbara County, approximately 10 miles south of Santa Maria, California. The Orcutt Hill Oilfield consists of over 10,000 acres and includes the following fees/leases:

- Pinal Fee
- Hobbs Fee
- Dome Fee
- Kaiser Fee
- Elasser Fee
- Folsom Fee
- Newlove Fee
- Careaga Fee
- Fox Lease
- Hartnell-Squires Lease
- Harris-Graciosa Lease
- Cal Coast Lease

This report includes an evaluation of the Newlove and Careaga leases only.

All of the properties are located west of Highway 101 as shown on Figure 1. The main entrance to the Orcutt Hill area oilfield is on Pinal Grade Road, accessed from the north along Rice Ranch Road. The Newlove Fee is located in the central portion while the Careaga Fee is located in the southwestern portion of the Orcutt Hill Oilfield.

At the time of Waterstone's sampling activity in 2006, the Subject Property was used for oil production and cattle grazing. The surrounding area consists mostly of ungraded vacant land, oilfields, vineyards and ranch-style residences. The area is very hilly with steep slopes and densely vegetated canyons. There has been no historical use or storage of chemical compounds in these areas and they were not sampled during Waterstone's environmental investigation.

Improvements at the Subject Property consist of oil production facilities including associated wells, pipelines, buildings, storage areas, test sites, aboveground storage tanks, compressor plant, water injection facilities, and areas of historical use such as pits and sumps.

The following previous reports were used by Waterstone to determine appropriate sampling locations for this study:

- October 22, 2001, Harding ESE; *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.*

- September 6, 2004, Waterstone Environmental, Inc.; *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.*

Field Work

Waterstone's evaluation was based on the map shown in Figure 2 that was generated by Harding ESE in its report dated October 22, 2001, *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.* This map shows the features listed on Table 1 that became the basis for choosing sampling locations. Waterstone and its subcontracted surveyor (Land Development Consultants of Anaheim, CA) performed 3 site visits to mark locations and survey features from the Harding ESE map that have no current means of identification onsite today.

Initially, the Newlove lease was evaluated. Two field episodes were performed to evaluate soil near wells, tank farms, compressors, and other oil field features that are listed on Table 1. The first field episode was to sample initial locations in worst-case scenario areas in June of 2006. After receipt of that data, a second sampling episode was performed to provide additional stepout locations based on the first set of analytical results. The Careaga lease was sampled in December 2006. The features sampled are shown on Table 1. Sampling locations were limited to topographically accessible areas and worst case scenario areas where chemical compounds were know or suspected to have been used or stored in the past.

Samples were collected using a hand auger or GeoProbe direct-push soil sampling rig to collect undisturbed samples according to standard soil sampling protocols included as Attachment A.

Over 100 locations were sampled on the Newlove and Careaga leases and over 400 samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range)
- Volatile organic compounds (VOCs) by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Title 22 Metals by EPA Method 6000/7000 series
- Polychlorinated biphenyls by EPA Method 8082 (one sample from each of the dump, pit, sump, building, and transformer areas)
- Pesticides by EPA Method 8082 (one sample from each of the dump, pit, sump building, and transformer areas)

Sample locations are shown on Figure 3. Inset Areas 1, 2, 3, and 4 show detailed maps where specific sampling locations can be discerned.

Results

Sampling results for all samples analyzed for PCBs and pesticides indicate that none of these compounds were detected in the 24 samples that were analyzed. Analytical results for TPH, VOCs, and SVOCs are shown on Table 1. Metals results are shown on Table 2.

TPH results higher than 3500 parts per million (ppm) are shaded in yellow on Table 2 for ease of review. Waterstone uses 3500 ppm as a threshold concentration for total TPH to conservatively evaluate what may be considered elevated if a risk assessment were performed. Only 14 of the 437 samples (3%) analyzed contained total TPH in excess of 3500 ppm and only 6 of these are over 10,000 ppm for total TPH.

TPH in excess of 3500 ppm was detected at the 10 following features:

- 3 of 37 oil wells sampled (all 3 on Careaga)
- 1 of 12 locations sampled at compressor, condensate, caustic, or injection plant locations (the 1 is on Careaga)
- 1 of 1 location at the fuel loading station at Careaga
- 2 of 22 locations sampled at pits, dumps, and sumps (both on Newlove)
- 2 of 23 locations sampled at current and former aboveground tanks
- 1 of 6 locations sampled at blow casings, pigs, or test headers.

VOC and SVOC concentrations were mostly not detected. Where these compounds were detected, they were commonly associated with elevated TPH. Metals concentrations were not detected at concentrations above background levels. Laboratory analysis data sheets have not been attached to this summary report but can be provided on request.

Conclusions

Based on Waterstone's investigation, the following conclusions can be made:

- TPH has been detected at 3% of the sampled features at concentrations that may require some future action.
- Future property use will dictate the need and scope of any further assessment or remedial activities.
- Sampling results were biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the site that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for chemical use and storage.

Please call me if you have any questions.

Sincerely,

Nancy Beresky, PG 7965
Principal Hydrogeologist
Waterstone Environmental, Inc.

Attachments: Tables 1, 2, 3
Figures 1, 2, 3 and Insets 1, 2, 3, 4
Attachment A

Table 1
Features Sampled on the Newlove and Careaga Leases
BreitBurn Energy - Orcutt Oil Field
Orcutt, CA

Sampled Features	Abbreviation for Sample ID	# of Features	# of Borings
Newlove Lease Sampling:			
Auto Dump	AD-	3	3
Blow Case	BC-	2	2
Buildings	B-	1	1
Caustic Plant AST	CPA-	2	2
Cement Pits	CP-	2	2
Condensate Plant	CON-	2	2
Discharge Point	DP-	2	2
Dumps	D-	4	3
Former Tanks	FT-	2	2
Gas Scrubber	GS-	2	2
Injection Plant	IP-	4	4
Injection Plant Valves	IPV-	2	2
Lube Oil Tank	LOT-	1	1
Oil Mixing Pit	OMP-	7	7
Pig	P-	2	2
Sumps	S-	4	4
Tank Battery	TB-	4	6
Test Header	TH-	2	2
Transformers	T-	5	5
Trash Pits	TP-	1	1
Wells	W#__-	15	15
Total		***69***	***70***
Careaga Lease (CL) Sampling:			
Brea	B-	1	2
Compressor Plant	CL-CPlant-	1	2
Drainage Way	DR1-	1	1
Drum Storage	CL-DS-	1	2
Dump	CL-D	1	1
FRM Energy Battery	CL-FEB-	1	2
Fuel Loading	FI-	1	1
Gas AST	CL-GAST-	1	1
Sump	CL-S-	1	1
Tank Farm	CL-TF-	3	9
Wells	CL-W#___-	22	13
Total		***34***	***35***

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

on Subject Property

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
AD - 1	7/20/2006	2	6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	5.3	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	5.9	ND	ND	ND	---	---	---	---
AD - 2		2	6	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	6	ND	ND	ND	---	---	---	---
AD - 3		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	5.3	ND	ND	ND	---	---	---	---
B - 1	7/21/2006	1	12	2.8	ND	ND	---	---	---	---
		3	22	ND	ND	8.4	All compounds Not Detected		All compounds Not Detected	
		5	16	4.8	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	28	ND	2.2	20	---	---	---	---
BC - 1	6/14/2006	1	430	ND	200	221	---	---	---	---
		3	4000	640	2080	1279	---	---	---	---
		5	4100	913	2090	1062	1,1,2,2-Tetrachloroethane 1,2,4-Trimethylbenzene Ethylbenzene Isopropylbenzene Naphthalene n-Butylbenzene n-Propylbenzene sec-Butylbenzene	95 43 16,000 1,900 320 100 10,000 660	---	---
BC - 2	6/15/2006	1	ND	ND	ND	ND	All compounds Not Detected		---	---
		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CON - 1	7/21/2006	3	9.1	ND	ND	ND	---	---	---	---
		5	12	ND	ND	1.9	---	---	---	---
		10	7.7	2.7	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CON - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	6	ND	ND	ND	---	---	---	---
		15	5.4	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 1	7/19/2006	2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 2	7/20/2006	2	19	ND	ND	ND	---	---	---	---
		5	13	ND	ND	ND	---	---	---	---
		10	23	4	ND	7.8	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
CPA - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	20	ND	ND	4.1	All compounds Not Detected		All compounds Not Detected	
		15	17	ND	ND	11.8	---	---	---	---
CPA - 2		3	180	ND	ND	141	---	---	---	---
		5	19	ND	ND	13.8	All compounds Not Detected		All compounds Not Detected	
		10	8.3	ND	ND	1.8	---	---	---	---
		15	22	ND	ND	17.5	---	---	---	---

Table 2
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Orcutt Oil Field
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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
D - 1	7/20/2006	2	7.2	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	5.2	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
D - 2		2	26	ND	2.1	19.7	---	---	---	---
		5	30	ND	4.4	21.2	---	---	---	---
		10	450	ND	170	268	---	---	---	---
		15	48	ND	24.7	48.2	All compounds Not Detected		All compounds Not Detected	
		20	2700	83	1470	1134	---	---	---	---
D - 4	7/18/2006	2	14	11	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	7.1	ND	ND	ND	---	---	---	---
		15	10	6.2	ND	ND	---	---	---	---
		19	5.2	ND	ND	ND	---	---	---	---
DP - 1	6/13/2006	1	5	ND	ND	ND	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
DP - 2		1	300	ND	152	145.8	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
FT - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	6.2	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
FT - 2		3	26	ND	2.5	17.4	---	---	---	---
		5	20	ND	ND	12.2	---	---	---	---
		10	24	ND	ND	8.9	All compounds Not Detected		All compounds Not Detected	
		15	21	ND	ND	8.6	---	---	---	---

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Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
GS - 1	6/14/2006	3	15	ND	ND	ND	---	---	---	---
		5	19	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
GS - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 1	6/14/2006	3	2300	23	860	1390	---	---	---	---
		5	54	ND	ND	34.8	---	---	---	---
		10	ND	ND	15.2	101	---	---	---	---
		15	130	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 2		3	460	6.1	119.6	331	---	---	---	---
		5	470	ND	108	355	All compounds Not Detected		All compounds Not Detected	
		10	33	ND	ND	7.7	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 3		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	23	ND	ND	5.4	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 4		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
IPV - 1	6/14/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	11	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IPV - 2		3	18	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	17	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	30	ND	ND	8.1	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
LOT - 1	7/18/2006	1	1400		470	853	---	---	---	---
		3	34000	2130	17200	14300	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene p-Isopropyltoluene Toluene	270 69 100 300 67 500 130 95 280 33 120	---	---
		5	6400	969	3780	1600	---	---	---	---
OMP - 1	6/12/2006	2	8900	731	4210	3930	1,3,5-Trimethylbenzene	2	All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 2		2	290	ND	113.8	176.1	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 3		2	5.5	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND				
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
OMP - 4		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
OMP - 5		2	ND	ND	ND	ND	---	---	---	---
		5	11	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 6		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	1,2-Dibromo-3-chloropropane	17	All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 7		2	11	ND	ND	ND	---	---	---	---
		5	9.5	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
P - 1	7/18/2006	1	100	15.6	42	43.3	---	---	---	---
		3	8.1	5.3	ND	ND	All compounds Not Detected		---	---
		5	5.5	ND	ND	ND	---	---	---	---
P - 2	7/21/2006	1	25	ND	ND	4.2	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		---	---
		5	47	ND	ND	29.4	---	---	---	---
S - 1	6/14/2006	5	23	ND	ND	12.7	---	---	---	---
		10	28	ND	9.6	ND	---	---	---	---
		15	40	ND	3.6	13.5	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 2		5	24	ND	ND	12.2	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
S - 3		5	310	ND	85.6	219	---	---	---	---
		10	370	6.8	93.2	260	All compounds Not Detected		All compounds Not Detected	
		15	38	ND	ND	6.1	---	---	---	---
		20	22	ND	ND	ND	---	---	---	---

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
S - 4	6/13/2006	5	ND	ND	ND	ND	---	---	---	---
		10	24	ND	ND	3.7	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 8	7/19/2006	5	160	ND	29.6	117	---	---	---	---
		10	49	ND	7.9	37	---	---	---	---
		15	28	ND	1.9	22	---	---	---	---
		20	16	ND	ND	6	All compounds Not Detected		All compounds Not Detected	
S - 9		5	170	ND	10	145	---	---	---	---
		10	34	ND	8.1	23.5	All compounds Not Detected		All compounds Not Detected	
		15	23	ND	2.2	13.9	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
T - 1	7/18/2006	surface	190	ND	60.9	117	---	---	---	---
		1	44	ND	ND	16.3	---	---	---	---
		3	60	ND	ND	19.3	---	---	---	---
T - 2		surface	49	ND	ND	37.3	---	---	---	---
		1	220	ND	27.5	185.5	---	---	---	---
		3	25	ND	ND	5.2	---	---	---	---
T - 3		surface	530	ND	187.7	331	---	---	---	---
		1	180	2.4	64	108.8	---	---	---	---
		3	330	3.9	95.6	226	---	---	---	---
T - 4		surface	14	ND	ND	3.1	---	---	---	---
		1	10	ND	ND	ND	---	---	---	---
		3	10	ND	ND	ND	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
T - 5		surface	330	ND	238	91	---	---	---	---
		1	420	ND	108	285	---	---	---	---
		3	20	ND	ND	ND	---	---	---	---
TB - 1	6/13/2006	3	46	ND	8.8	32.1	---	---	---	---
		5	17	ND	ND	10	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 2		3	120	ND	31.7	86	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	5.5	ND	ND	ND	---	---	---	---
		15	5.6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 3		3	8900	1270	4450	3230	---	---	---	---
		5	440	50.8	207	181	---	---	---	---
		10	8.7	ND	ND	ND	---	---	---	---
		15	16	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 4		3	36	ND	3.9	23.5	---	---	---	---
		5	17	ND	ND	9.1	---	---	---	---
		10	240	ND	76.4	160	All compounds Not Detected		All compounds Not Detected	
		15	6.8	ND	ND	ND	---	---	---	---
TB - 5	6/15/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
TB - 6		3	18	ND	1.8	9.4	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
TH - 1	7/18/2006	1	14	ND	ND	2.2	All compounds Not Detected		---	---
		3	6.4	ND	ND	ND	---	---	---	---
		5	8.7	2.4	ND	ND	---	---	---	---
TH - 2		1	47	ND	12.6	28.4	---	---	---	---
		3	8.7	ND	ND	ND	---	---	---	---
		5	9	ND	ND	ND	All compounds Not Detected		---	---

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
TP - 1	7/20/2006	2	1100	ND	375	756	---	---	---	---
		5	3500	ND	1040	2400	---	---	---	---
		10	330	ND	22.3	279	All compounds Not Detected		All compounds Not Detected	
		15	110	ND	19.5	80.9	---	---	---	---
		20	86	ND	9.4	66.8	---	---	---	---
W - 1 - 37	6/16/2006	5	5.5	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	6.5	ND	ND	ND	---	---	---	---
W - 2 - 100		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 3 - 40		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 4 - 108	6/15/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 5 - 70		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 6 - 86		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 7 - 27		5	1900	14	929	905	---	---	---	---
		10	1600	295	790	517	Naphthalene p-Isopropyltoluene	470 69	2-Methylnaphthalene	1,100
W - 8 - 82		5	17	11	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 9 - 109		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 10 - 48	6/16/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	26	ND	ND	17.8	---	---	---	---
W - 11 - 99		5	11	ND	ND	1.9	---	---	---	---
		8.5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 12 - 102	6/15/2006	5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 13 - 94		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 14 - 60	6/16/2006	5	5.5	ND	ND	ND	---	---	---	---
		10	7.7	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 15 - 61	7/18/2006	5	27	ND	ND	ND	---	---	---	---
		10	43	6.8	ND	6.1	All compounds Not Detected		All compounds Not Detected	

on Subject Property

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-37AG	12/5/2006	10	<5.0	<1.8	<1.8	<1.8	All	...not detected	All compounds...	...not detected
CL-37A-G	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	Phenol	460
CL-B1-1	11/29/2006	3	16	<1.8	<1.8	11.7	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-B1-2	11/29/2006	3	17	<1.8	<1.8	10.3	All compounds...	...not detected	All compounds...	...not detected
		5	300	<18	53	232	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-CPlant1-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
CL-CPlant-3	12/4/2006	3	210	<1.8	138.3	68	---	---	---	---
		5	140	<1.8	103.4	36.7	---	---	---	---
		10	99	<1.8	72.1	24.8	---	---	---	---
		15	12000	3130	8200	240	sec-Butylbenzene 1,1,2,2-Tetrachloroethane	50 74	All compounds...	...not detected
CL-D1-1	12/4/2006	3	110	<3.6	13.7	87.9	All compounds...	...not detected	---	---
		5	220	<3.6	47.8	165	---	---	---	---
		10	72	<3.6	13.7	52.2	---	---	---	---
		15	56	<3.6	15.9	37.1	---	---	---	
CL-DR1-1	12/1/2006	5	5.8	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	9.9	3.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-DS1-1	12/1/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	6.9	<1.8	<1.8	<1.8	---	---	---	---
		15	9.3	<1.8	<1.8	3.6	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-DS1-2	12/1/2006	3	<10.0	<3.6	<3.6	<3.6	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	40	<1.8	5.3	32.3	---	---	---	---
CL-F1-1	12/1/2006	1	14000	1340	8100	4120	---	---	---	---
		3	23	<3.6	<3.6	<3.6	1,1-Dichloropropene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene Toluene	2 34 10 38 25 13 40 15 15 6.1 24	All compounds...	...not detected
		5	1100	247	611	260	---	---	---	---
		10	6.4	2.2	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-1	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	5.8	<1.8	<1.8	3.9	---	---	---	---
		8	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-2	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	Chlorobenzene Benzene	12 2.5	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-GAST1-1	12/1/2006	3	6.6	2.1	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	520	<9.0	173	330	---	---	---	---
		10	12	<3.6	<3.6	<3.6	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-S1-1	12/1/2006	3	1100	13	506	585	---	---	---	---
		5	810	166	419	228	Naphthalene	29	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-1	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-2	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---

on Subject Property

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-TF1-3	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-4	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-1	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-3	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
on Subject Property										
CL-TF3-1	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF3-2	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Phenol	380
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-136G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	420
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-146DG	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-147G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	27	<1.8	14.7	3.8	---	---	---	---
CL-W-46G	12/6/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-47AG	12/6/2006	5	5.8	<1.8	<1.8	<1.8	---	---	---	---
		10	8.5	<1.8	<1.8	1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	4,200

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-W-47P	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-61P	12/5/2006	5	12000	2690	6200	2820	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Ethylbenzene Isopropylbenzene Naphthalene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	1,100 55 41 73 1,500 180 310 240	2-Methylnaphthalene Bis(2-ethylhexyl)phthalate	5,500 6,000
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-62P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	3,400
CL-W-63P	12/5/2006	10	7100	2354	3600	1107	---	---	---	---
		15	12000	3997	6130	2130	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Butylbenzene n-Propylbenzene o-Xylene p-Isopropyltoluene sec-Butylbenzene tert-Butylbenzene	270 200 2,900 5,900 370 14,000 1,400 1,800 140 690 5,100 290	Naphthalene	17,000
CL-W-74P	12/6/2006	5	5.2	<1.8	<1.8	3.3	All compounds...	...not detected	All compounds...	...not detected
		10	5.5	<1.8	<1.8	3.4	---	---	---	---

on Subject Property

Table 2
Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-W-78P	12/6/2006	5	1100	391	408	298	---	---	---	---
		10	240000	86000	116000	37000	1,2,4-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Butylbenzene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	37,000 12,000 29,000 19,000 23,000 19,000 6,000 19,000 8,200 12,000	2-Methylnaphthalene	24,000
		15	6600	1973	3440	1210	---	---	---	---
CL-W-91P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-92P	12/6/2006	5	<5.0	<1.8	<1.8	3.4	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	660
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-93P	12/7/2006	5	49	<3.6	<3.6	35.3	All compounds...	...not detected	All compounds...	...not detected
		10	19	<3.6	<3.6	8.2	---	---	---	---

--- = Not Analyzed ND=Not Detected
TPH - total petroleum hydrocarbons
ug/kg - micrograms per kilogram or parts per billion
mg/kg - milligrams per kilogram or parts per million

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
AD-1-2	07/20/2006	2	ND	24	ND	ND	23	2.6	8.3	5.3	0.041	ND	16	ND	21	35
AD-2-10	07/20/2006	10	2.9	21	ND	0.73	13	1.7	5	2.6	0.02	ND	8.8	ND	14	21
AD-3-10	07/20/2006	10	ND	29	ND	ND	10	ND	3.9	3.6	0.027	ND	2.7	ND	9.6	13
B-1-1	07/21/2006	1	9.4	65	0.58	ND	38	4.9	12	7.7	0.12	2.1	22	ND	43	39
CON-1-10	07/21/2006	10	4.3	37	ND	ND	29	3.6	8.5	4.2	0.029	ND	24	ND	20	31
CP-1-10	07/19/2006	10	2.6	28	ND	ND	8.7	2	4.4	2.3	ND	ND	7.9	ND	10	13
CP-2-15	07/20/2006	15	7	59	ND	ND	37	4.4	15	6.2	0.037	ND	19	ND	32	47
CPA-1-10	07/19/2006	10	5.3	70	ND	0.5	27	3.5	9.2	4.9	0.033	ND	18	ND	30	31
CPA-2-5	07/19/2006	5	4	52	ND	0.55	16	2.5	5.9	3.2	ND	ND	13	ND	19	19
D-1-20	07/20/2006	20	3.1	45	ND	ND	12	2.1	6.1	4.7	0.03	3.5	11	ND	13	31
D-2-15	07/20/2006	15	7	40	0.52	2.2	61	25	21	4.1	0.13	3.4	31	ND	35	150
D-4-5	07/18/2006	5	ND	28	ND	ND	5.8	ND	4.1	4.8	ND	ND	2.6	ND	8.7	9.3
DP-1-3	06/13/2006	3	2.7	34	ND	0.56	9.3	1.9	4.2	3.2	ND	ND	8.5	ND	11	16
DP-2-3	06/13/2006	3	3	53	ND	ND	5.6	1.6	2.8	3.8	ND	ND	5.8	ND	9.2	9.2
FT-1-5	07/19/2006	5	ND	4.4	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	2.6	11
FT-2-10	07/19/2006	10	3.5	48	ND	ND	13	3.1	6.2	3.6	ND	ND	10	ND	16	17
GS-1-10	06/14/2006	10	2.7	24	ND	ND	4.4	1.8	3.2	2.5	ND	ND	4.9	ND	6.8	14
GS-2-15	06/14/2006	15	2.3	18	ND	ND	3.8	1.1	2.7	ND	ND	ND	3.2	ND	5.6	21
IP-1-15	06/14/2006	15	ND	20	ND	0.74	3.8	1.3	3.6	2.3	ND	ND	4.6	ND	6	25

on Subject Property

on Subject Property

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
IP-2-5	06/14/2006	5	ND	37	ND	ND	1.9	ND	3.2	3	0.033	ND	2.4	ND	4.7	7.8
IP-3-3	06/14/2006	3	2.5	22	ND	ND	4.7	ND	2.9	2.2	ND	ND	4.8	ND	6.3	38
IP-4-10	06/14/2006	10	2.8	25	ND	0.56	5.3	1.8	3.3	2.8	ND	ND	6.5	ND	7.4	42
IPV-1-5	06/14/2006	5	ND	15	ND	ND	1.4	2.9	ND	ND	ND	ND	4.6	ND	2.7	ND
IPV-2-3	06/14/2006	3	ND	22	ND	ND	3.1	1.5	2.7	ND	ND	ND	3.5	ND	4.9	8.4
LOT-1-3	07/18/2006	3	4.1	26	ND	ND	9.7	2.7	5.2	3.1	ND	ND	12	ND	18	15
OMP-1-2	06/12/2006	2	ND	430	ND	ND	12	1.8	31	11	0.14	ND	18	ND	21	94
OMP-2-2	06/12/2006	2	ND	8.9	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	2.1	ND
OMP-3-20	06/12/2006	20	ND	16	ND	ND	5.3	ND	2.1	2.3	0.02	ND	4.8	ND	5.7	8.1
OMP-4-5	06/12/2006	5	3.5	28	ND	ND	9.4	1.5	4.3	3.2	0.02	ND	7.1	ND	11	18
OMP-5-15	06/12/2006	15	4.9	20	ND	0.66	7.4	2	3.4	2.8	0.023	ND	6.7	ND	9.7	14
OMP-6-15	06/12/2006	15	2	39	ND	ND	13	1.5	7.5	4.9	0.042	3.1	4.7	ND	10	15
OMP-7-15	06/12/2006	15	2.7	25	ND	ND	7.8	1.6	2.8	2.9	0.02	ND	4.3	ND	12	8.5
S-1-15	06/14/2006	15	2.3	33	ND	0.98	5.4	1.9	6.2	3	ND	ND	9	ND	9.6	15
S-2-5	06/14/2006	5	3.7	33	ND	0.53	5.9	2.8	4.9	2.9	ND	ND	7.7	ND	9.7	13
S-3-10	06/14/2006	10	3.8	37	ND	0.74	5.4	2.3	5.3	2.6	ND	ND	9.2	ND	10	11
S-4-15	06/13/2006	15	13	32	ND	ND	35	4.1	10	3.3	0.029	4.1	25	ND	25	58

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
S-8-20	07/19/2006	20	5.9	65	ND	0.61	32	4.2	13	6.3	0.029	ND	21	ND	35	44
S-9-10	07/19/2006	10	2.3	29	ND	ND	7.8	1	3.1	2	ND	ND	5.9	ND	12	14
TB-1-15	06/13/2006	15	6.2	25	ND	ND	25	2.7	9.7	3	0.036	ND	28	ND	16	43
TB-2-15	06/13/2006	15	2.8	45	ND	ND	27	2.2	9.7	4	ND	3.2	7.5	ND	20	29
TB-3-15	06/13/2006	15	2.1	26	ND	ND	22	1.9	9.2	2.5	ND	2.7	7.9	ND	12	30
TB-4-10	06/13/2006	10	14	89	ND	2.2	31	12	11	5.5	ND	3.9	40	ND	28	49
TB-5-5	06/15/2006	5	ND	12	ND	ND	4.4	ND	ND	ND	0.025	ND	2.5	ND	4.9	ND
TB-6-3	06/15/2006	3	ND	19	ND	ND	6.5	ND	2.4	2.5	ND	ND	2.3	ND	4.5	ND
TP-1-10	07/20/2006	10	3.6	43	ND	0.5	9.7	1.4	5.4	2.7	0.15	ND	12	ND	26	16
on Subject Property																
W-10-48-5	06/16/2006	5	ND	24	ND	ND	5.5	ND	3.6	2.5	ND	ND	3.9	ND	7	7.2
W-11-99-8.5	06/16/2006	8.5	ND	17	ND	ND	3.2	ND	ND	ND	ND	ND	4.4	ND	9.7	5.8
W-12-102-10	06/15/2006	10	2.3	33	ND	ND	4.5	1.3	3.8	2.7	ND	3.2	4.1	ND	7.2	8.7
W-1-37-5	06/16/2006	5	ND	55	ND	ND	4.5	ND	2.3	2.8	ND	ND	3.2	ND	7.3	ND
W-13-94-5	06/15/2006	5	ND	4.3	ND	ND	2.3	3.9	ND	ND	ND	ND	ND	ND	3.3	ND
W-14-60-10	06/16/2006	10	3.6	390	ND	0.71	16	ND	7	10	0.11	ND	4.3	ND	9	18
W-15-61-10	07/18/2006	10	7.9	54	ND	0.51	21	2	7.5	3.4	ND	2.6	15	ND	27	22
W-2-100-10	06/16/2006	10	ND	9.5	ND	ND	2.2	ND	ND	ND	ND	ND	2.7	ND	3.6	5.9
W-3-40-10	06/16/2006	10	ND	11	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	1.6	ND
W-4-108-5	06/15/2006	5	ND	28	ND	ND	5.5	1.1	2.8	2.4	ND	ND	4.5	ND	7.1	9.3
W-5-70-10	06/15/2006	10	ND	27	ND	ND	6.2	1.1	3.7	3	ND	ND	4.3	ND	6.8	11

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
W-6-86-5	06/15/2006	5	ND	17	ND	ND	2.7	ND	2	ND	ND	ND	ND	ND	3.4	5.7
W-7-27-10	06/15/2006	10	ND	20	ND	ND	3.6	ND	2.1	2.7	ND	ND	3.2	ND	4.8	5.2
W-8-82-10	06/15/2006	10	ND	20	ND	ND	2.6	ND	ND	2.1	ND	ND	ND	ND	2.1	ND
W-9-109-5	06/15/2006	5	ND	5.9	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	2.1	28
CL-37A-G	12/05/2006	5	ND	22	ND	ND	5.1	ND	2	2.2	ND	ND	4.3	ND	7.3	8.4
CL-B1-1	11/29/2006	3	ND	30	ND	ND	5.2	1.5	3.6	2.8	ND	ND	3.1	ND	6.7	12
CL-B1-2	11/29/2006	3	2	28	ND	ND	4.3	1.3	2.4	3	ND	ND	3	ND	6.3	6.4
CL-CPlant1-2	12/04/2006	20	5.5	34	ND	0.66	5.6	2.2	3.7	2.5	ND	2.4	4.9	ND	7.3	11
CL-CPlant-3	12/04/2006	15	9.9	23	ND	ND	5	2	2.7	2.2	ND	7.8	4.6	ND	8.4	10
CL-D1-1	12/04/2006	3	6.1	89	ND	0.57	10	1.4	9.4	14	0.037	5.7	6.5	ND	24	160
CL-DR1-1	12/01/2006	5	5.4	63	ND	ND	13	2.2	5	4.6	ND	2.8	7.3	ND	22	11
CL-F1-1	12/01/2006	3	3.4	92	ND	ND	8.5	1.8	5.3	5.6	ND	ND	6.4	ND	15	12
CL-FEB1-2	12/06/2006	3	ND	34	ND	ND	3.3	1.6	2.8	ND	ND	ND	3.2	ND	5.4	ND
CL-GAST1-1	12/01/2006	3	6.4	45	ND	ND	10	1.1	3.7	3.8	ND	3.5	4.5	ND	33	9.8
CL-S1-1	12/01/2006	5	2	20	ND	ND	3.1	ND	ND	2.2	ND	ND	ND	ND	6.8	ND
CL-TF1-1	11/29/2006	3	ND	13	ND	ND	2.2	ND	ND	2	ND	ND	ND	ND	3.3	ND
CL-TF1-2	11/29/2006	20	ND	26	ND	ND	5.9	ND	2.2	3.2	ND	ND	2.6	ND	5.3	7.8
CL-TF1-2	11/29/2006	3	ND	28	ND	ND	6.3	1.4	2.7	3.2	ND	ND	3.5	ND	7.7	8.6
CL-TF1-3	11/29/2006	3	ND	14	ND	ND	2.8	ND	2	ND	ND	ND	ND	ND	3.7	5.3
CL-TF1-4	11/29/2006	3	ND	27	ND	ND	4.3	1.2	2.3	2.8	ND	ND	2.1	ND	5.9	5.9

on Subject Property

Table 3
Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
CL-TF2-2	12/04/2006	3	3.5	33	ND	ND	7	2.1	3.2	3.2	0.031	9.1	6.1	ND	9.2	15
CL-TF2-3	12/04/2006	3	2.4	19	ND	ND	3.7	1.1	ND	ND	ND	6.8	3.5	ND	4.9	8.1
CL-TF3-1	12/05/2006	3	ND	13	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	3.3	ND
CL-TF3-2	12/05/2006	3	ND	27	ND	ND	3	1.3	ND	ND	ND	2.9	2.1	ND	4.3	6
CL-W-136G	12/07/2006	5	ND	22	ND	ND	3	2.6	2.3	ND	ND	ND	3	ND	6.9	ND
CL-W-146DG	12/04/2006	5	ND	15	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	5.4	ND
CL-W-147G	12/07/2006	5	ND	16	ND	ND	5.3	1.1	ND	ND	ND	3.3	3.1	ND	7.7	5.7
CL-W-46G	12/06/2006	5	7.9	32	ND	3.2	11	5.3	2.2	2.6	ND	17	8.9	2.6	40	5.6
CL-W-47AG	12/06/2006	10	ND	12	ND	ND	4	ND	ND	2.2	0.035	ND	2.9	ND	6.3	5
CL-W-47P	12/04/2006	5	ND	15	ND	ND	2.7	ND	2	ND	ND	2.9	2.9	ND	4.3	9.8
CL-W-61P	12/05/2006	5	ND	22	ND	ND	2.8	ND	ND	ND	ND	ND	3.8	ND	7.2	ND
CL-W-62P	12/05/2006	10	ND	9.9	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	4.8	ND
CL-W-63P	12/05/2006	15	ND	15	ND	ND	1.7	ND	ND	ND	ND	ND	3.1	ND	5.7	ND
CL-W-74P	12/06/2006	5	4.7	37	0.75	ND	14	2.9	10	5.4	0.022	5.3	17	ND	13	28
CL-W-78P	12/06/2006	10	ND	12	ND	ND	2	1.2	ND	ND	ND	ND	4	ND	6.4	ND
CL-W-91P	12/05/2006	5	2.3	35	ND	ND	8.6	1.3	3.7	4.3	ND	ND	5.9	ND	11	8.9
CL-W-92P	12/06/2006	5	2.2	32	ND	6.1	9.5	2.6	2.1	ND	ND	15	4.4	ND	35	16
CL-W-93P	12/07/2006	5	4.9	52	ND	15	79	2.9	18	ND	0.024	5.9	51	ND	37	61

on Subject Property

* No concentrations of Silver, Thallium, or Antimony were detected in any of the sampled locations; therefore, these compounds are not included on this table.

ug/kg - micrograms per kilogram or parts per billion

mg/kg - milligrams per kilogram or parts per million

ND-Not Detected

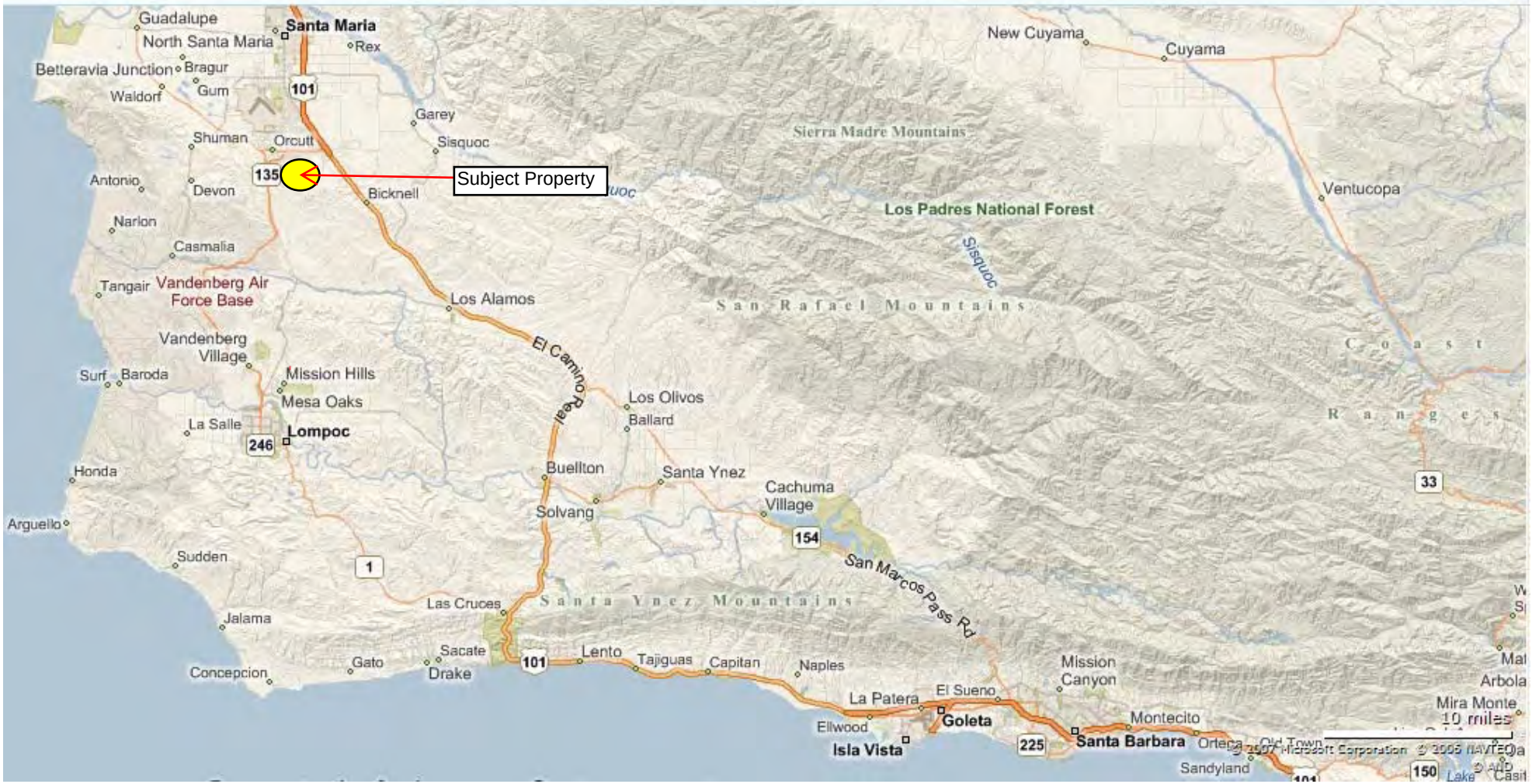
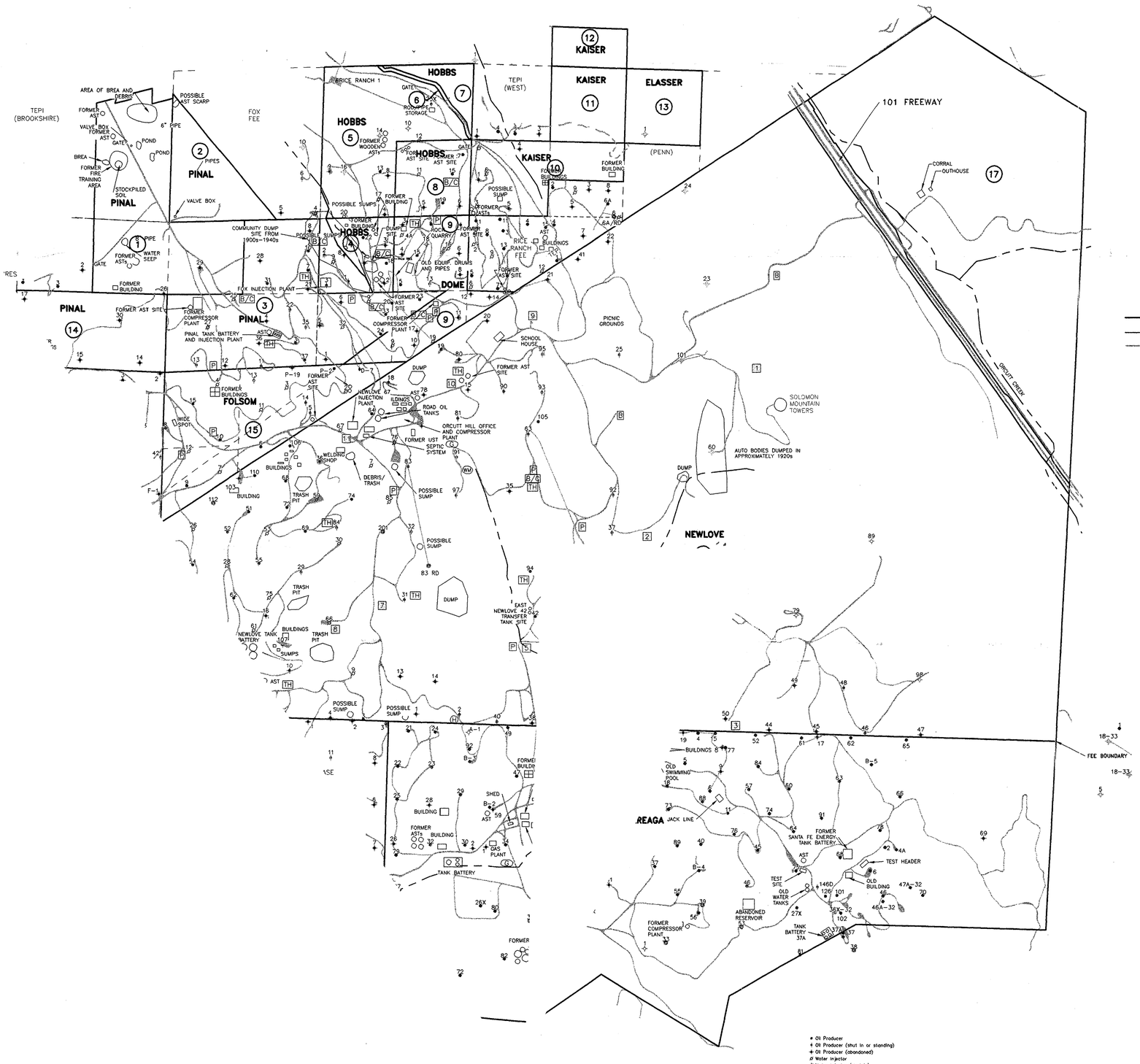


Figure 1

Orcutt Oil Field
Location Map
Newlove and Careaga Leases
Orcutt, CA

TR-31.DWG-10/19/00



LEGEND

- PARCEL BOUNDARY
- INTERMITTENT STREAM
- ROAD
- (5) PARCEL NUMBER
- OIL PRODUCER
- OIL PRODUCER (SHUT IN OR STANDING)
- OIL PRODUCER (ABANDONED)
- WATER INJECTOR
- WATER INJECTOR (SHUT IN)
- PLUGGED & ABANDONED (OIL SHOWS)
- PLUGGED & ABANDONED
- WATER INJECTOR (ABANDONED)
- PROPOSED LOCATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE
- [1] THREE SATELLITE DISHES
- [2] CONCRETE PAD
- [3] BRICK/CABLE DEBRIS
- [4] PICNIC AREA
- [5] WATER HOLE/TROUGH
- [6] SEPARATOR (CAREAGA SALES) & METER
- [7] 125-GALLON DEMULSIFIER TANK
- [8] ASPHALTIC MATERIAL ON PAD AND ON SLOPE TO SOUTH
- [9] USAF WEATHER STATION
- [10] RADIO TOWER AND CONCRETE BLOCK BUILDING
- [11] MICROWAVE STATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE

PARCEL	FIGURE NO.	AREA (APPROXIMATE)
1	3	141.9 ACRES
2	4	50.5 ACRES
3	5	157.4 ACRES
4	7	24.4 ACRES
5	8	101.5 ACRES
6	9	3.0 ACRES
7	9	15.3 ACRES
8	10	40.2 ACRES
9	11	73.4 ACRES
10	12	61.2 ACRES
11	13	39.7 ACRES
12	14	19.7 ACRES
13	15	40.1 ACRES
14	16	81.5 ACRES
15	17	127.5 ACRES
16	18	4046.8 ACRES
17	27	436.4 ACRES

REFERENCES:
DAMES & MOORE (1995)
CALIFORNIA DEPARTMENT OF CONSERVATION (2000)
L & P CONSULTANTS (2001)
USGS (1974)

0 1000 Feet
SCALE

N W E S

Harding ESE
A MACTEC COMPANY
2171 CAMPUS DRIVE, SUITE 100
IRVINE, CA 92612

DWG BY	NMM
DATE	6/19/01
REV BY	BAR
REVISED	10/01

SITE MAP

NUEVO ENERGY COMPANY
ORCUTT HILL AREA
SANTA BARBARA COUNTY, CA.

FIGURE NO. 2

PROJECT NO. 640268

DATE PLOTTED: 10/19/01

FILE: NUEVO\ORCUTT HILL\0500-0601-SITE MAP

North Hills

Existing Facilities & Disturbances

Existing Use & Development Areas

Revisions

Print Date:
May 17, 2007

Picnic Grounds

Mt. Solomon Facility

Communications Facility

Historic Orcutt Schoolhouse

Oil Field Office

Oil Operations & Headquarters Offices

Orcutt Community Plan Area

Inset 1

Inset 2

Inset 3

Inset 4

CALIFORNIA 135

101

Legend

- Amendment Area Boundary - Orcutt Fee (APN - 101-020-074) Source: LDC (July 2006)
- Oil Operations & Headquarters Offices
- Existing Dirt Roads
- Major Highways
- Proposed Circulation - Source: Calthorpe (April 2007)
- Existing Facility
- Development Area Footprint - Source: Calthorpe (March 2007)
- Potential Rural Lot Areas - Source: Calthorpe (March 2007)
- Orcutt Community Plan Area - Source: Digitized by FORMA
- Santa Barbara Aerial Source: AirPhotoUSA (Flown Sept. 2004)
- Waterstone Sample Points - Source: LDC (May 2007) *(Labels in Red)*

Wells

- SX Locations - Source: BreitBurn (Aug. 2006)
- Confirmed Well Locations - Source: LDC (March 2007)
- Unconfirmed Well Locations - Source: Breitburn (March 2006)

Subsurface Exploration - Source: Seward (May 2007)

- CPT Boring
- Hollow - Stem Boring
- Geologic Test Pit
- Geotech Test Pit
- Bucket - Auger Boring
- Fault Trench

Figure 3

Index Map Showing Environmental and Geotechnical Sampling Locations

INSETS 1-4
ARE SHOWN ON THE
FOLLOWING PAGES

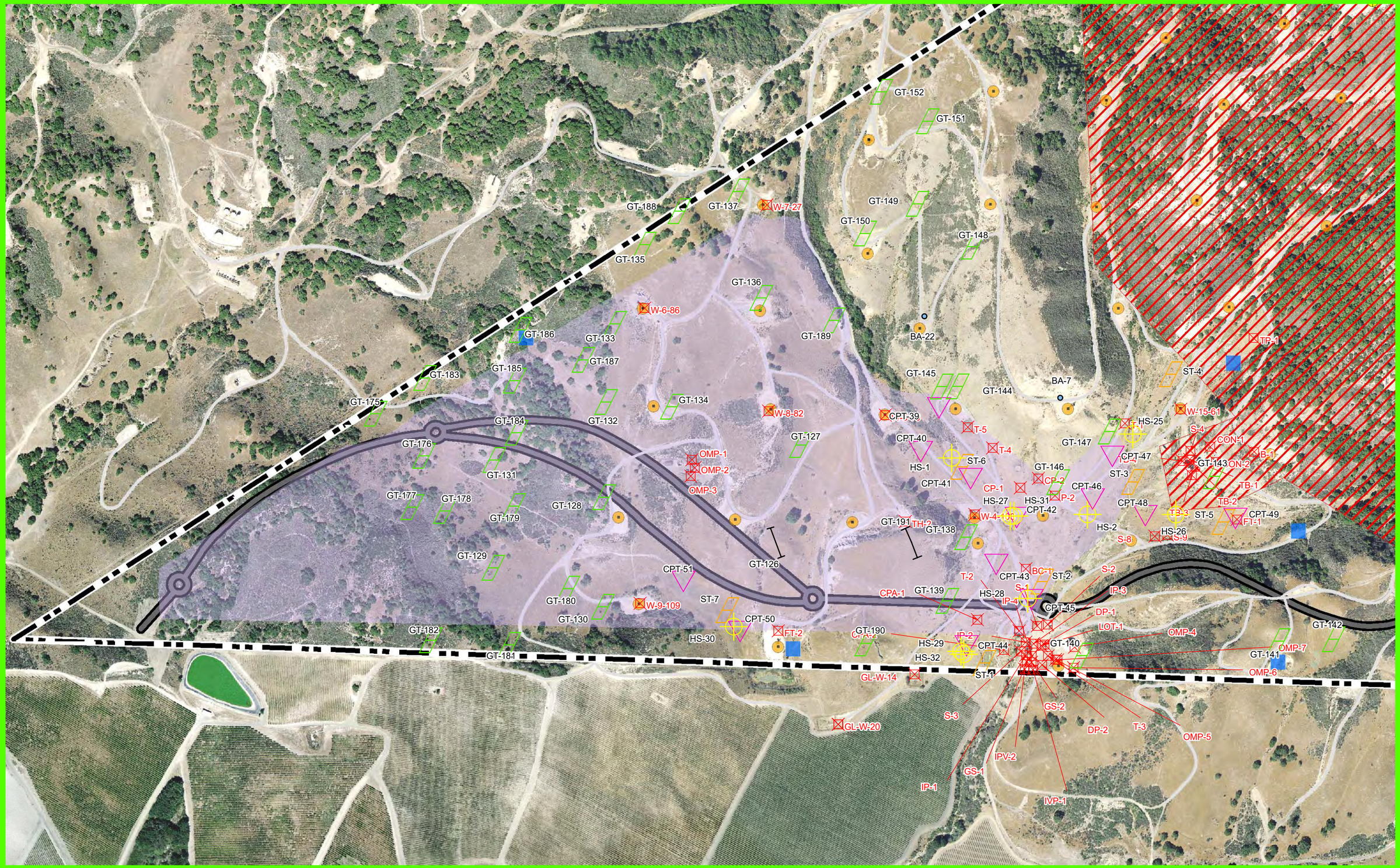
Careaga lease is shown on Insets 2 and 4 (sample IDs begin with CL-).

FORMA Systems

0 500 1,000 2,000 3,000 Feet

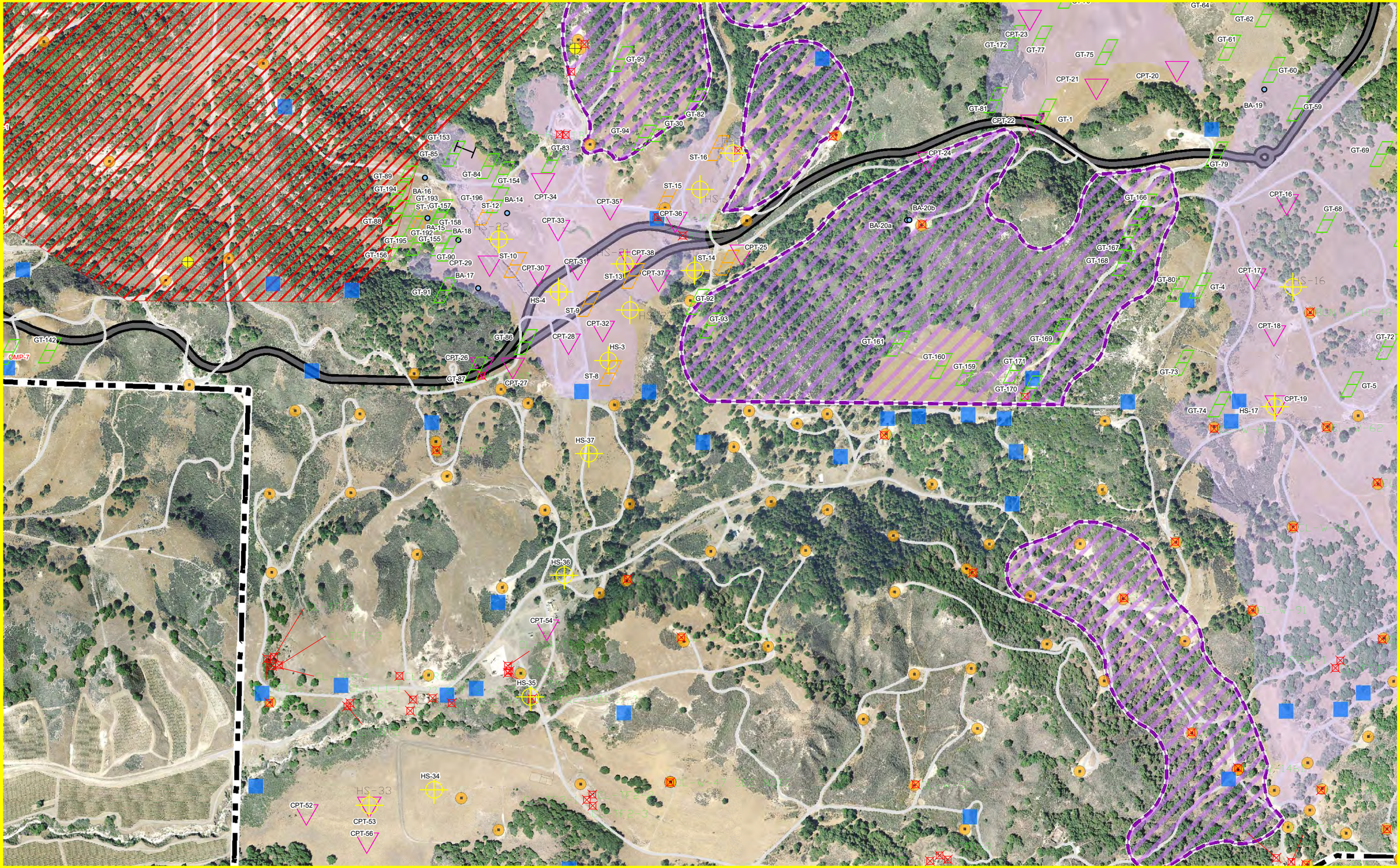
* In the event that Breitburn has not provided a well status, the condition of the well reverts to the status reported by the Department of Oil Gas & Geothermal Resources.

mxd: historic_use_location_fs051507



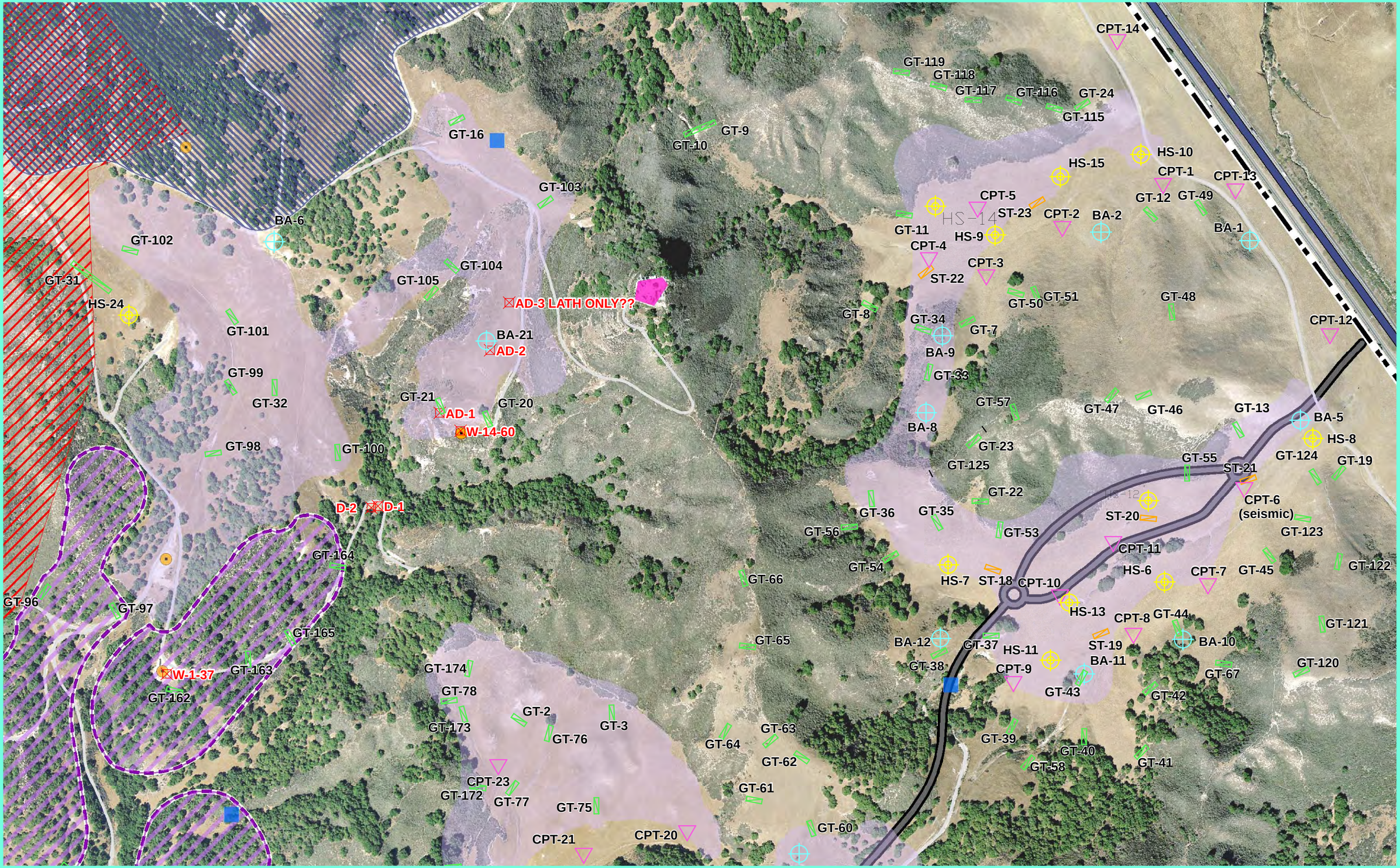
Inset 1

mxd: inset1_areaE_calthorpe_fs051507



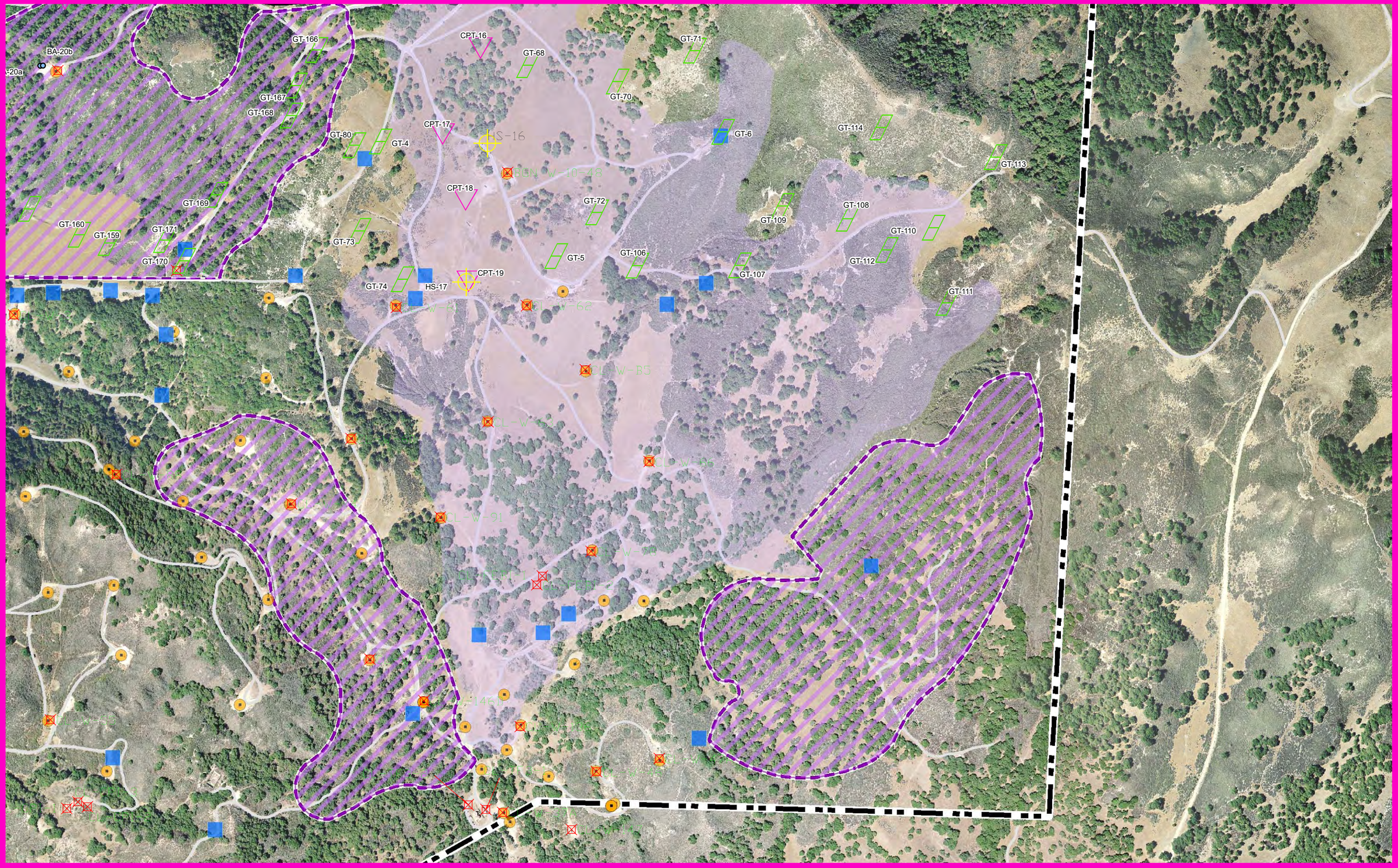
Inset 2

mxd: inset2_careaga_fs051507



Inset 3

mxd: inset3_newlove_fs051507



Inset 4

mxd: inset4_fs051507

Phase II Investigation and Remedial Action Plan

Solomon Hills

Santa Barbara County, California

June 27, 2024 **Project: 23-148**

Submitted to: **County of Santa Barbara Environmental Health Services**
225 Camino del Remedio
Santa Barbara, CA 93110

On Behalf of: **Solstra Communities California, LLC**
1555 Orcutt Hill Road
Orcutt, CA 93455

Prepared by:

Waterstone Environmental, Inc.
2936 East Coronado Street
Anaheim, California 92806
(714) 414-1122; Fax (714) 414-1166

Table 1
Sampling and Analysis Matrix
Solomon Hills Development (Newlove and Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Location ID	Lease	Well/Location	Sample Depths (ft bgs)				
			Soil				Soil Vapor
			TPH (8015M)	VOCs (8260B)	SVOCs (8270C) Title 22 Metals (6010B/7471A)	SVOCs (8270C) PCBs (8082)	VOCs (8260B)
CL-W-61	Careaga	Well #61	5,10,15	5,10,15	5	--	10,15
CL-W-60	Careaga	Well #60	5,10,15	10	10	--	--
CL-W-74	Careaga	Well #74	5,10,15	10	5,10	--	--
CL-TH1	Careaga	Test Header/ Pipe Corridor	2,5,10	5	2,10	--	10
CL-TR1	Careaga	Test Header/ Pipe Corridor	2,5	5	2	--	--
CL-W-6	Careaga	Well #6 Section 31	5,10,15	10	10	--	--
CL-W-77	Careaga	Well #77	5,10,15	10,15	10	--	--
CL-W-45	Careaga	Well #45	5,10,15	10	5	--	--
CL-W-75	Careaga	Well #75	5,10,15	10	10	--	--
CL-W-37A	Careaga	Well 37A (Abandoned)	5,10,15	10,15	10	--	--
TF3, TF4	Careaga	Section 32 Tank Battery	2,5,10,15	5,10	2	--	10
CL-W-78	Careaga	Well #78	10,20,25,30	10,20,25,30	20	--	10,20
CL-W-63	Careaga	Well #63	10,20,25	10,20,25	10	--	10,20
CL-FEB1	Careaga	Former SFE Tank Battery	2,5,15	5,15	2	--	10,15
CL-W-B-5	Careaga	Well B-5	5,10,15	10	10	--	--
CL-SEP1	Careaga	Oil Separators	2,5,10	5	2	--	10
CL-T-1	Careaga	Pole/Transformer Storage Area	1,2,5	--	--	1,2	--
CL-W-6(32)	Careaga	Well #6 Section 32	5,10,20	10,20	20	--	10,20
AD-2	Newlove	Former Auto Bodies Dump	--	--	--	--	10,20
N-W-22	Newlove	Well #22	5,10,15	10	10	--	--
N-W-46	Newlove	Well #46	5,10,15	10	10	--	--
N-W-48	Newlove	Well #48	5,10,15	10	10	--	--

Notes:

ft bgs	feet below ground surface	SVOCs	semi-volatile organic compounds
TPH	total petroleum hydrocarbons	PCBs	poly chlorinated biphenyls
VOCs	volatile organic compounds	--	not sampled/not analyzed

Table 2
Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-W-6	5	1/31/2024	<50	<50	<99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<82	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	<4.1	<4.1	ND
		20		<9.9	**18**	**26**	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.3	<4.7	<4.7	ND
Careaga	CL-W-37A	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<84	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.4	<4.2	<4.2	ND
		15		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
Careaga	CL-W-45	5	1/30/2024	<9.9	**12**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<92	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<4.6	<4.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	<9.9	**17**	**22**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	**46**	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**4.7**	<3.6	<3.6	**12**	<3.6	**12**	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<10	**19**	**30**	<77	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	ND
		10		<9.9	<9.9	<20	<69	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<6.9	<3.5	<3.5	ND
		15		<9.9	<9.9	<20	<69	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-63	10	1/30/2024	<10	<10	<20	<90	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<9.0	<4.5	<4.5	ND
		20		**320**	**3,800**	**1,500**	<89	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		25		<10	**24**	<20	<130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	ND
Careaga	CL-W-74	5	1/30/2024	<9.9	**11**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	**1,400**	**76**	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	**19**	<20	**150**	**85**	**37**	**7.6**	**5.2**	**7.6**	<4.2	<4.2	**5.7**	**4.5**	<4.2	**9.3**	<4.2	**11**	**19**	**30**	ND
		15		<10	**11**	<20	<69	**59**	**9.2**	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-78	10	1/30/2024	<9.9	<9.9	<20	<100	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	ND
		20		**1,600**	**7,200**	**2,800**	<4,600	**730**	**13,000**	**9,400**	<230	**12,000**	**1,800**	**1,200**	**9,100**	<230	<230	<230	**7,200**	<460	<230	<230	ND
		25		<10	<10	<20	<78	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.8	<3.9	<3.9	ND
		30		<9.9	<9.9	<20	<75	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.5	<3.8	<3.8	ND
Careaga	CL-W-B-5	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
Careaga	CL-SEP1	2	1/30/2024	<50	**61**	**120**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.8	<4.4	<4.4	ND
		10		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-TF3	2	1/31/2024	<50	<50	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<50	<50	<100	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	ND
		10		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<50	**180**	**370**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	**31**	**23**	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		10		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<9.9	**13**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<73	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	ND
		10		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TR1	2	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<110	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	ND
Newlove	N-W-22	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<73	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.3	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<75	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.5	<3.7	<3.7	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				NA	260[3]	12,000[3]	70,000,000[2]	330[1]	5,800[2]	1,900,000[2]	33,000,000[2]	2,000[1]	2,400,000[1]	--	3,800,000[2]	1,100,000[1]	940[2]	300,000[2]	2,200,000[1]	550,000[2]	640,000[2]	580,000[2]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
bgs	below ground surface
	Result exceeds screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 3
Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	All Other SVOCs	Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**260**	<250	<250	**2,000**	ND	**1.7**	**35**	<0.49	<0.49	**--**	**7.6**	**1.2**	**2.9**	**1.8**	**1.9**	**3.3**	**9.1**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<250	<250	<250	**1,600**	ND	**1.0**	**43**	<0.48	**2.2**	**--**	**10**	**6.2**	**3.3**	**3.9**	**1.6**	**12**	**15**	**13**	ND
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**700**	ND	<0.98	**18**	<0.49	<0.49	**--**	**5.1**	**1.3**	**1.4**	**1.7**	**1.2**	**2.4**	**8**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	<250	<250	<250	**2,100**	ND	**7.2**	**45**	**0.99**	**0.59**	**--**	**17**	**14**	**2.5**	**5.4**	**7.7**	**18**	**29**	**13**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**13**	**50**	**1.2**	**0.51**	**--**	**26**	**5.3**	**28**	**5.8**	**2.1**	**50**	**35**	**82**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<250	<250	<250	**670**	ND	<0.98	**38**	<0.49	<0.49	**--**	**6.3**	**1.6**	**3.7**	**2.8**	**1.1**	**4.9**	**7.9**	**11**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	**17,000**	<12,000	<12,000	ND	<0.98	**14**	<0.49	<0.49	**--**	**22**	<0.49	**1.8**	**4.2**	**1.2**	**4.1**	**8.6**	**15**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	<250	<250	<250	<250	ND	**3.1**	**80**	<0.48	<0.48	**--**	**22**	**1.2**	**4.2**	**8.1**	**2.4**	**7.6**	**27**	**9.8**	ND
		10		<250	<250	<250	**1,900**	ND	**4.2**	**170**	<0.48	**53/56**	**0.69**/<0.25	**26**	**1.7**	**4.9**	**3.1**	**1.9**	**41**	**34**	**39**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,200**	ND	**1.7**	**30**	<0.49	<0.49	**--**	**17**	**1.9**	**5.6**	**4.4**	**2.3**	**7.4**	**17**	**13**	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	<0.98	**32**	<0.49	<0.49	**--**	**6.5**	**1.8**	**3.2**	**2.3**	**1.2**	**5.9**	**8.8**	**6.5**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	<12,000	**15,000**	<12,000	ND	<0.97	**21**	<0.49	<0.49	**--**	**6.0**	**0.88**	**1.8**	**1.6**	<0.97	**4.7**	**11**	**5.2**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.0**	**22**	<0.49	<0.49	**--**	**9.7**	**0.80**	**3.7**	**2.8**	**1.8**	**3.9**	**8.8**	**6.0**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**	**Di-n-octyl-phthalate**	**1-Methylnaph-thalene**	**2-Methylnaph-thalene**	**Phenol**	**All Other SVOCs**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium 6010B/6020**	**Cadmium (STLC/TCLP) (mg/L)**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Molybdenum**	**Nickel**	**Vanadium**	**Zinc**	**All Other Metals**
Careaga	CL-FEB1	2	1/31/2024	<250	<250	<250	<250	ND	<0.99	**30**	<0.50	<0.50	--	**5.4**	**1.1**	**2.4**	**2.6**	**1.9**	**3.7**	**7.7**	**5.7**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	<5,000	<5,000	<5,000	<5,000	ND	**1.5**	**29**	<0.49	<0.49	--	**6.6**	**1.4**	**6.5**	**11**	**4.0**	**4.7**	**13**	**16**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	<2,500	<2,500	<2,500	<2,500	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2		<250	<250	<250	<250	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF3	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	**1.2**	**110**	<0.49	**0.74**	--	**7.3**	**1.4**	**4.7**	**3.3**	**2.3**	**6.2**	**10**	**52**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	<0.98	**36**	<0.49	**0.89**	--	**4.9**	**0.91**	**3.3**	**4.2**	**4.4**	**3.7**	**7.8**	**13**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<2,500	<2,500	<2,500	<2,500	ND	**1.3**	**24**	<0.48	<0.48	--	**7.6**	**0.84**	**3.2**	**3.0**	**1.8**	**3.6**	**8.5**	**8.6**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**3.0**	**12**	<0.48	<0.48	--	**11**	**0.68**	**2.2**	**3.1**	**2.9**	**3.6**	**14**	<4.8	ND
Careaga	CL-TR1	2	1/30/2024	<250	<250	<250	<250	ND	**1.6**	**35**	<0.50	<0.50	--	**6.1**	**1.3**	**3.3**	**2.3**	**3.4**	**4.3**	**10**	<5.0	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**2,000**	ND	**4.8**	**18**	<0.49	<0.49	--	**8.0**	**0.77**	**1.6**	**3.5**	**19**	**4.3**	**15**	**5.8**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.1**	**16**	<0.48	<0.48	--	**10**	**1.2**	**2.0**	**2.6**	**1.5**	**3.6**	**14**	**12**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,100**	ND	**1.5**	**38**	<0.48	<0.48	--	**15**	**2.1**	**4.4**	**3.6**	<0.95	**8.5**	**19**	**16**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			Residential Screening Levels	630,000[1]	9,900[1]	240,000[4]	19,000,000[1]	--	12[3]	15,000[4]	16[4]	78[4]	1/1**	120,000[2]	23[4]	3,100[4]	80[4]	390[4]	820[4]	390[4]	23,000[4]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface
	Detection exceeded screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 The screening level of 12 ppm for arsenic is within the range of naturally-occurring background levels for California soils as cited in Bradford et. al., "Background Concentrations of Trace and Major Elements in California Soils", Kearney Foundation Special Report, UC-Riverside and CAL-EPA DTSC, March 1996.

4 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 4
Soil Analytical Results for PCBs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	PCBs EPA Method 8082 (µg/kg)
Careaga	CL-T-1	1	1/30/2024	<50
		2		<50
			Residential Screening Level	170

Notes:

ND/<	Not Detected above noted Reporting Limit
PCBs	Polychlorinated Biphenyls
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface

Table 5
Soil Vapor Analytical Results - Solomon Hills Development (Newlove & Careaga Leases)
Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Volatile Organic Compounds EPA Method 8260B ($\mu g/m^3$) Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other VOCs
Careaga	CL-W-6(32)	10	1/31/2024	**9.0**	**45**	**13**	**13**	<40	<12	**17**	<12	**10**	<8	**134**	<8	**37**	**10**	**130**	ND
		20		<8	**31**	**14**	**10**	<40	<12	**12**	<12	<8	<8	**68**	<8	**27**	<8	**99**	ND
Careaga	CL-W-61	10	1/31/2024	**25**	**21**	<8	<8	<40	<12	<8	<12	<8	<8	**221**	<8	**19**	<8	**98**	ND
		15		**67**	**23**	<8	<8	<40	<12	<8	<12	<8	<8	**300**	**46**	**16**	<8	**95**	ND
		15 REP		**74**	**23**	<8	<8	<40	<12	<8	<12	<8	**9.0**	**313**	**76**	**16**	<8	**89**	ND
Careaga	CL-W-63	10	1/31/2024	**12**	**14**	<8	<8	<40	<12	<8	<12	<8	<8	**100**	<8	**13**	<8	**70**	ND
		20		**561**	**2,520**	**2,380**	**483**	<40	<12	**787**	**1,210**	<8	<8	**959**	<8	**1,220**	**301**	**4,127**	ND
Careaga	CL-W-78	10	1/31/2024	**553**	**6,540**	**2,900**	**602**	**67**	**220**	**2,290**	**1,200**	<8	<8	**160**	<8	**2,960**	**23**	**2,588**	ND
		20		NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
Careaga	CL-FEB1	10	1/31/2024	**8**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	--	ND
		15		**16**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**20**	<8	<8	<8	--	ND
Careaga	CL-SEP1	10	1/31/2024	**12**	**56**	**26**	**10**	<40	<12	**27**	**16**	**9.0**	<8	**52**	<8	**40**	<8	**99**	ND
Careaga	CL-TF3	10	1/31/2024	**11**	**9.0**	<8	<8	<40	<12	<8	<12	<8	<8	**33**	<8	**12**	<8	**16**	ND
Careaga	CL-TF4	10	1/31/2024	**9.0**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	**19**	ND
Careaga	CL-TH1	10	1/31/2024	**232,000**	**35,600**	**8,760**	<2400	<12000	<3600	**5,900**	<3600	<2400	<2400	**55,900**	<2400	**9,200**	**4,770**	**71,200**	ND
Newlove	AD-2	10	1/31/2024	**43**	**20**	<8	<8	<40	<12	<8	<12	<8	<8	**106**	<8	**19**	<8	**78**	ND
		20		**17**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**35**	**9**	**9**	<8	--	ND
Indoor Air Screening Level				0.097	1.1	--	--	0.083	--	1,000	--	940	0.46	310	0.48	63	63	100	
Residential Screening Level AF= 0.03				3.2	37	--	--	2.8	--	33,333	--	31,333	15.3	10,333	16	2,100	2,100	3,333	
Residential Screening Level AF= 0.001				97	1,100	--	--	83	--	1,000,000	--	940,000	460	310,000	480	63,000	63,000	100,000	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
µg/m3	micrograms per cubic meter
bgs	below ground surface
NF	No flow

Screening Levels:
DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022). Unless Otherwise Noted (AF = 0.03).

AF = Attenuation Factor, applied according to Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion (February 2023).
* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) with appropriate AF because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

Table 6
Summary of Estimated Remediation Soil Volumes
Solomon Hills Development, Orcutt Oil Field
Orcutt, CA

Item/Feature	Est. Qty.	Assumed Basis	Assumed Size L x W x H	Ea (cy)	Subtotal (cy)	Tons
Wells/ Well Pads	60	25%	Conical Radius 20', Depth 12'	186	2,791	4,187
Sumps	10		25' x 25' x 7'	162	1,620	2,431
Tank Batteries	3		75' x 35' x 5'	486	1,458	2,188
Pipes			2,000' x 10 x 4'	2,963	2,963	4,444
Roads	184000	sf, 4 inches thick	0.33		2,272	3,407
Other Facilities	10		25' x 35' x 5'	116	1,157	1,736
Former Dump D-2	1		25' x 25' x 10'	231	231	347
			Subtotal		12,493	18,740
			Contingency	10%	1,249	1,874
Conversion Factor	1.5	tons/cy	**Grand Total**		**13,743**	**20,614**

Note: These estimates are based on available information for these oilfield facilities, the results of site investigations, various assumptions outlined herein, and the proposed site development.

Figures

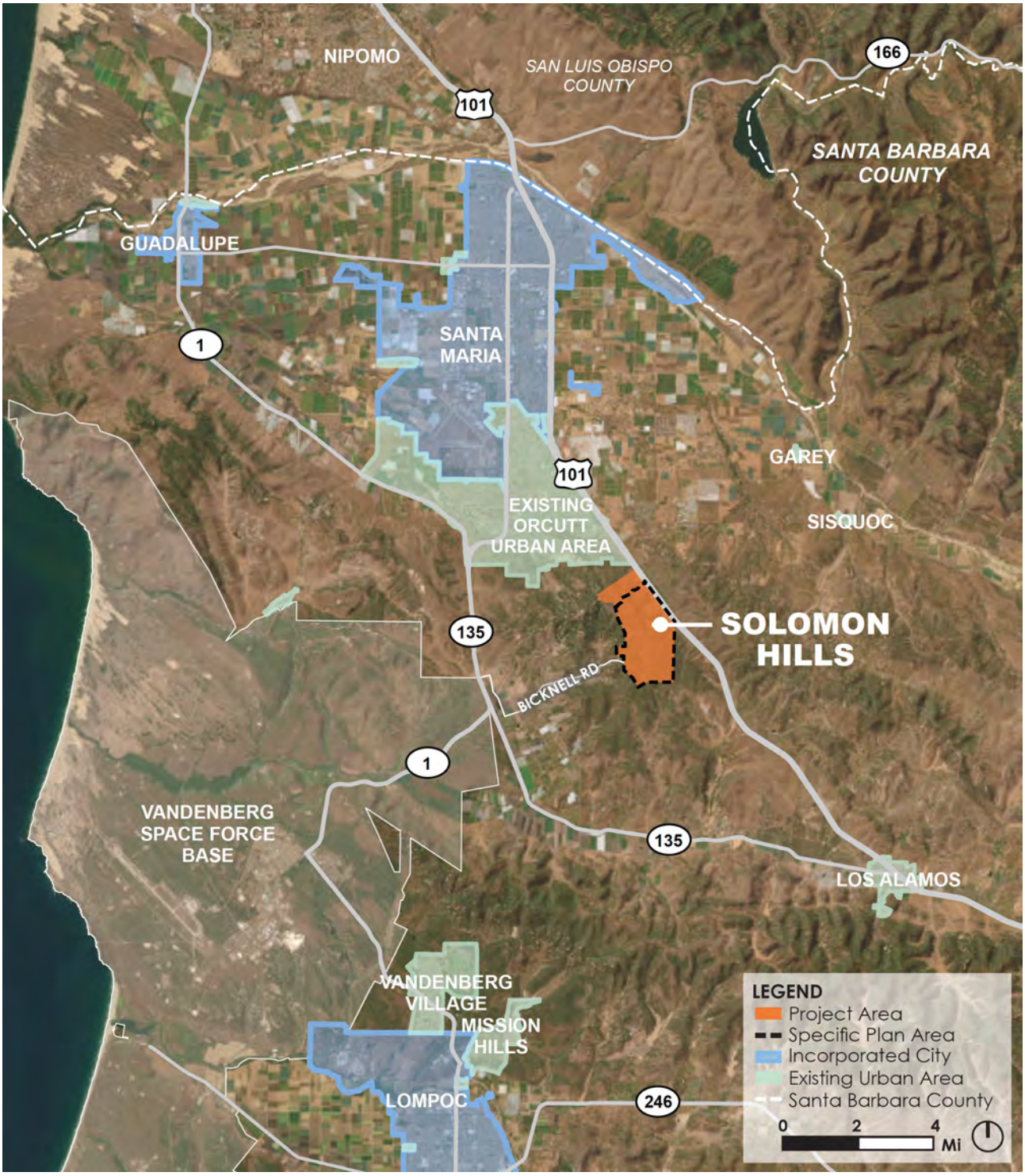


Figure 1
Subject Property Location Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

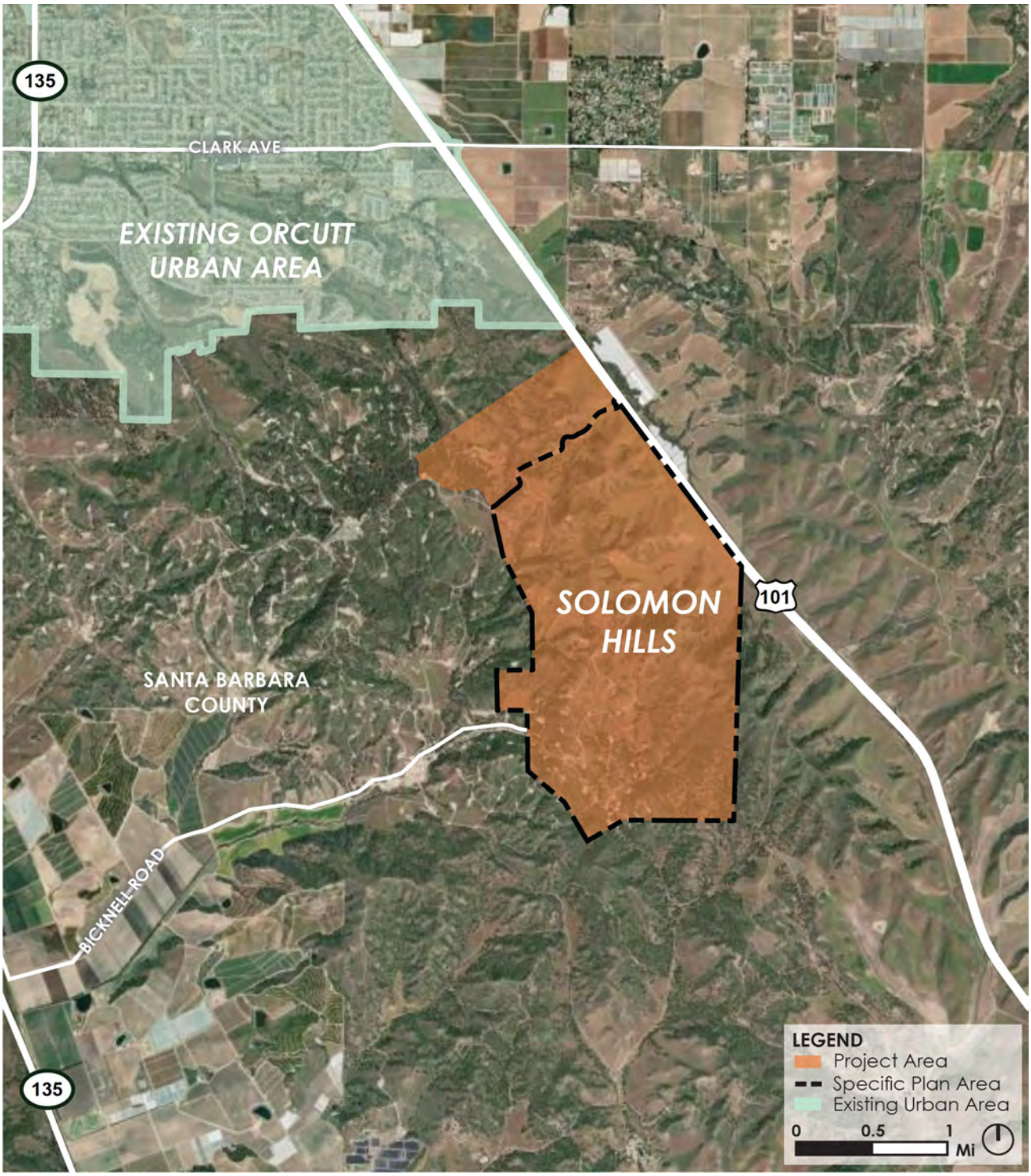


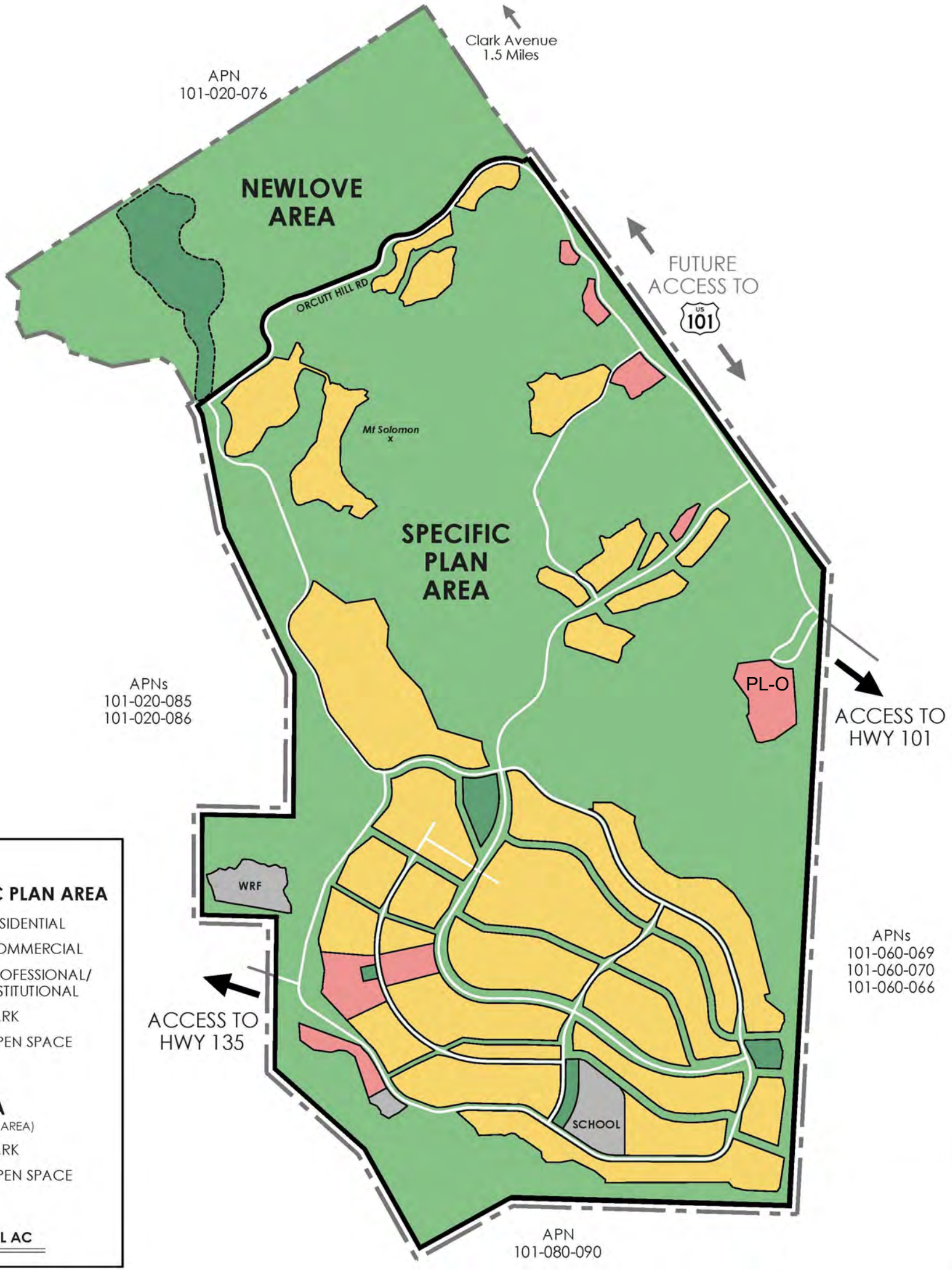
Figure 2
Subject Property Vicinity Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

SOLOMON HILLS
AREA DESIGNATIONS MAP
SANTA BARBARA COUNTY, CA



LEGEND

SPECIFIC PLAN AREA

546 AC	RESIDENTIAL
41 AC	COMMERCIAL
25 AC	PROFESSIONAL/ INSTITUTIONAL
41 AC	PARK
963 AC	OPEN SPACE
1,616 AC	

NEWLOVE AREA
(OUTSIDE SPECIFIC PLAN AREA)

31 AC	PARK
256 AC	OPEN SPACE
287 AC	

1,903 TOTAL AC

Figure 3
Development Map

Solomon Hills
Santa Barbara County, CA

Legend

NORTH

Approximate Scale
0 mi 0.125 mi 0.25 mi

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST., ANAHEIM, CA

Drawn By: TD	Project No:
Approved By: MS	Date: 5/27/2024



Figure 4
Grading Plan

Solomon Hills
Santa Barbara County, CA

NORTH

Approximate Scale

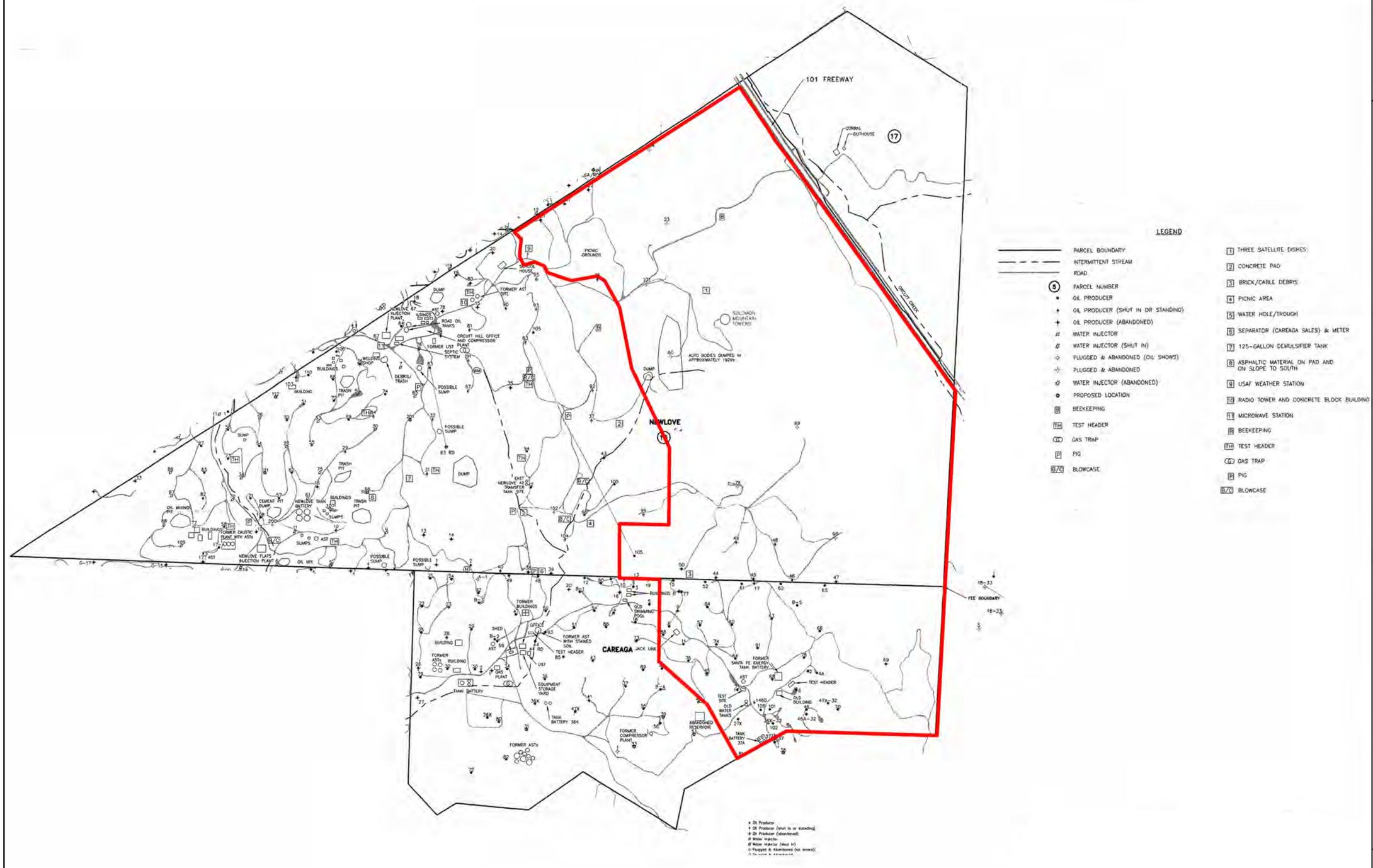
0' 200' 400'

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Figure 5
Environmental Features Site Plan

Solomon Hills
Santa Barbara County, CA



Reference: Harding ESE Env Site Assessment, Orcutt Hill Area, Santa Barbara County, California. Figure 2, October 22, 2001.

NORTH

0 1000' 2000'

Approximate Scale

Legend

Approximate Subject Property Boundary

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

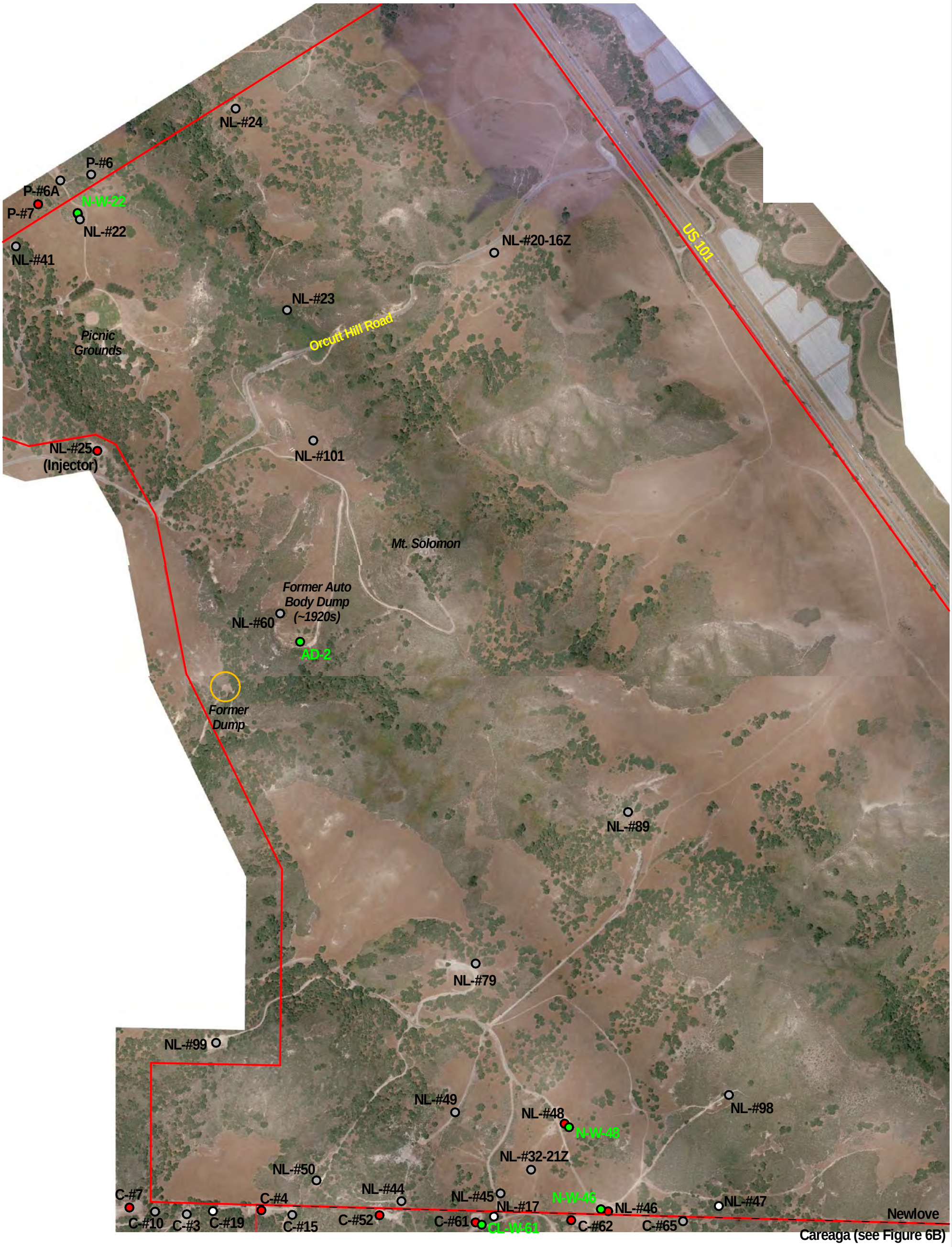


Figure 6A
Site Features, Sample Locations, and Areas of Proposed Remediation - Newlove

Solomon Hills
North - Newlove Area

Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

NORTH

Approximate Scale
0' 400' 800'

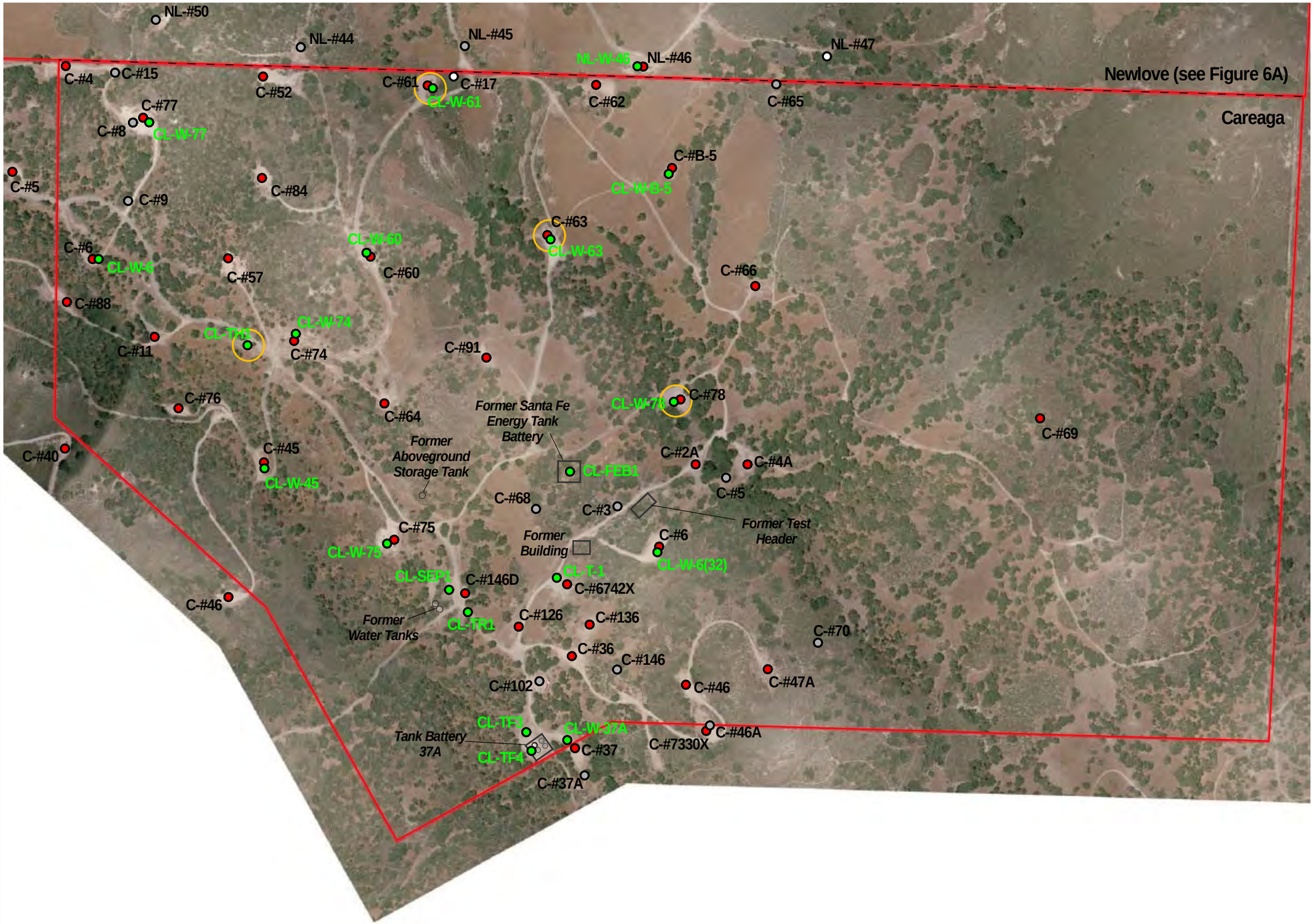
WATERSTONE ENVIRONMENTAL, INC.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

Figure 6B
Site Features, Sample Locations, and Areas of Proposed Remediation - Careaga

Solomon Hills
South - Careaga Area



Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

NORTH

Approximate Scale

0' 250' 500'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Appendix C

Benzo(a)Pyrene-Equivalent Calculations

CL-W-6	CL-W-6				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-W-6(32)	CL-W-6(32)				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-W-37A	CL-W-37A				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-W-45	CL-W-45				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-W-60	CL-W-60				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg

CL-W-61	CL-W-61				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-W-63	CL-W-63				
	Benzo(a)anthracene	12000	0.1	1200	
	Chrysene	12000	0.01	120	
	Benzo(b)fluoranthene	12000	0.1	1200	
	Benzo(k)fluoranthene	12000	0.1	1200	
	Benzo(a)pyrene	12000	1	12000	
	Indeno(1,2,3-cd)pyrene	12000	0.1	1200	
	Dibenz(a,h)anthracene	12000	1	12000	
				28920	ug/kg
				28.92	mg/kg
CL-W-74	CL-W-74				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-W-75	CL-W-75				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-W-77	CL-W-77				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg

CL-W-78	CL-W-78				
	Benzo(a)anthracene	12000	0.1	1200	
	Chrysene	12000	0.01	120	
	Benzo(b)fluoranthene	12000	0.1	1200	
	Benzo(k)fluoranthene	12000	0.1	1200	
	Benzo(a)pyrene	12000	1	12000	
	Indeno(1,2,3-cd)pyrene	12000	0.1	1200	
	Dibenz(a,h)anthracene	12000	1	12000	
				28920	ug/kg
				28.92	mg/kg
CL-W-B-5	CL-W-B-5				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-FEB1	CL-FEB1				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-SEP1	CL-SEP1				
	Benzo(a)anthracene	5000	0.1	500	
	Chrysene	5000	0.01	50	
	Benzo(b)fluoranthene	5000	0.1	500	
	Benzo(k)fluoranthene	5000	0.1	500	
	Benzo(a)pyrene	5000	1	5000	
	Indeno(1,2,3-cd)pyrene	5000	0.1	500	
	Dibenz(a,h)anthracene	5000	1	5000	
				12050	ug/kg
				12.05	mg/kg
CL-T-1	CL-T1-1				
	Benzo(a)anthracene	2500	0.1	250	
	Chrysene	2500	0.01	25	
	Benzo(b)fluoranthene	2500	0.1	250	
	Benzo(k)fluoranthene	2500	0.1	250	
	Benzo(a)pyrene	2500	1	2500	
	Indeno(1,2,3-cd)pyrene	2500	0.1	250	
	Dibenz(a,h)anthracene	2500	1	2500	
				6025	ug/kg
				6.025	mg/kg

CL-T1-2	CL-T1-2				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-TF4	CL-TF4				
	Benzo(a)anthracene	13000	0.1	1300	
	Chrysene	13000	0.01	130	
	Benzo(b)fluoranthene	13000	0.1	1300	
	Benzo(k)fluoranthene	13000	0.1	1300	
	Benzo(a)pyrene	13000	1	13000	
	Indeno(1,2,3-cd)pyrene	13000	0.1	1300	
	Dibenz(a,h)anthracene	13000	1	13000	
				31330	ug/kg
				31.33	mg/kg
CL-TH1-2	CL-TH1-2				
	Benzo(a)anthracene	2500	0.1	250	
	Chrysene	2500	0.01	25	
	Benzo(b)fluoranthene	2500	0.1	250	
	Benzo(k)fluoranthene	2500	0.1	250	
	Benzo(a)pyrene	2500	1	2500	
	Indeno(1,2,3-cd)pyrene	2500	0.1	250	
	Dibenz(a,h)anthracene	2500	1	2500	
				6025	ug/kg
				6.025	mg/kg
CL-TH1-10	CL-TH1-10				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
CL-TR1	CL-TR1				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg

AD-2	AD-2				
	Benzo(a)anthracene	500	0.1	50	
	Chrysene	500	0.01	5	
	Benzo(b)fluoranthene	500	0.1	50	
	Benzo(k)fluoranthene	500	0.1	50	
	Benzo(a)pyrene	500	1	500	
	Indeno(1,2,3-cd)pyrene	500	0.1	50	
	Dibenz(a,h)anthracene	500	1	500	
				1205	ug/kg
				1.205	mg/kg
N-W-22	N-W-22				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg
N-W-46	N-W-46				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg

N-W-48	N-W-48				
	Benzo(a)anthracene	250	0.1	25	
	Chrysene	250	0.01	2.5	
	Benzo(b)fluoranthene	250	0.1	25	
	Benzo(k)fluoranthene	250	0.1	25	
	Benzo(a)pyrene	250	1	250	
	Indeno(1,2,3-cd)pyrene	250	0.1	25	
	Dibenz(a,h)anthracene	250	1	250	
				602.5	ug/kg
				0.6025	mg/kg

Appendix D

2015 Santa Maria Energy Letter Regarding Sumps

SANTA MARIA ENERGY

December 15, 2015

VIA ELECTRONIC MAIL

Mr. Michael J. Thomas
Assistant Executive Officer
California Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

RE: Water Code Directive pursuant to Section 13267 ("Order")
Santa Maria Energy, LLC, Careaga Lease, Orcutt Oil Field

Dear Mr. Thomas:

This letter and the attached information will serve as a supplemental response to the Order sent to Santa Maria Energy, LLC ("SME") on October 15, 2015 pursuant to Section 13267.

SME submitted its initial response on November 9, 2015 confirming that, for the time period it has operator of the Careaga Lease in the Orcutt oil field (2003-present), it has not used sumps for the purpose of collecting and/or storing fluids of solid waste material in connection with its oil/gas drilling or production operations.

In accordance with the provisions of the Order, SME has researched the information within its possession to determine the possible location of any historic sumps or fluid discharges within the Careaga Lease at the Orcutt Oil field and can provide the following information.

Introduction

The RWQCB letter focuses on the potential impact of discharge to land by sumps and the potential impact to water quality on surface or groundwater that serves as a source of drinking water. For the record, this lease is located over five miles south of the community of Orcutt in the Santa Maria Valley Groundwater Basin and five miles north of the community of Los Alamos located in the San Antonio Groundwater Basin and any water wells serving these communities.

History

Oil operations within the Careaga Lease in the Orcutt Oil Field started in approximately 1902. Historical records indicate that Shell Oil Company operated this field from the early 1900's to the early 1990's.

2811 Airpark Drive, Santa Maria, CA 93455 P.O. Box 7202, Santa Maria, CA 93456
p: 805.938.3320 f: 805.938.3340 info@santamariaenergy.com www.santamariaenergy.com

In reviewing field records, it appears there may be approximately 22 historic sump features that were related to individual oil wells drilled by Shell Oil Company between 1902 and 1930.

A sump was created near the tank battery after the mid-1930's that served as the place to dispose of drilling muds and produced materials. This tank battery sump appears in aerial photographs from the 1930's to the early 1970's. Neither this sump or the 22 historic sump features show up in any aerial photos after 1974.

Responses to Requested Information

As requested in the letter, below are the responses to the nine items listed in the RWQCB October 15, 2015 letter:

1) The locations of all current and historic sumps in your area of operations used in the discharge of fluids to land. Provide all information regarding liner material used with each sump, if any. Provide the status of all sumps, including active, inactive, closed with cleanup, closed without cleanup, or unknown. For sumps closed with cleanup, describe the cleanup activities and cleanup level.

As stated above, SME has never used sumps for the purpose of collecting and/or storing fluids of solid waste material in connection with its oil/gas drilling or production operations at the Lease in the Orcutt Oil Field.

However, the approximately 1100 acre Careaga lease in the Orcutt Oil Field has had oil operations on it since the early 1900's. Shell Oil Company operated the field from 1900's to 1990's.

From the 1900's to the 1930's, a common drilling technique in the oil industry was to establish a sump near an oil well to hold drilling muds and the first liquids to be produced by the well. As soon as the well proved to be successful, it was connected to storage tanks or pipelines to capture the produced water and oil. At that point, the drilling material in the sump was either hauled off or left in place to evaporate.

Based on our research, there appears to be 22 historic sumps on the Careaga Lease in the Orcutt Oil Field that were related to individual oil wells drilled by Shell Oil Company between 1902 and 1930 (Appendix B). A map showing the location of the wells adjacent to these historic sumps is attached (Appendix A). These historic sump features were found by field surveys. All sumps shown are inactive. It is unknown whether they were closed with or without cleanup.

In addition to the above, in the mid-1930's it appears that a central sump was created near the tank battery. It appears this sump was discontinued in the mid-1970's based on review of aerial photographs. It is unknown whether it was closed with or without cleanup.

There are no existing active sumps on the Careaga Lease. SME has no information on how the history sumps were created, if they were lined, how large they were, or how they were abandoned.

2) The procedures you use to close or abandon sumps, or otherwise cease their operation.

There are no active sumps on the Careaga Lease in Orcutt Oil Field. It is unknown whether any historic sumps on the site were closed with or without cleanup.

3) The estimated total annual amount of fluid previously discharged into each historic and active sump, and estimated annual amount of fluid to be discharged to active sumps going forward.

A) There are no records of the historic sumps or the material that may have been discharged to the sumps.
B) There are no active sumps on the property. SME does not use sumps for either its drilling or production operations.

4) The physical and chemical composition of any fluids discharged into each sump.

Unknown.

5) The physical and chemical composition of any solidified waste in each sump.

Unknown.

6) The location of any domestic, municipal, and commercial water wells within a half mile radius of any current or historic sump.

The Careaga Lease is within the Orcutt Oil field. This lease is over five miles south of the community of Orcutt. Please see the attached aerial photograph (Appendix C).

Except for one private water well drilled by SME in 2011, at the requirement of Santa Barbara County, to service the SME Careaga Lease field office ("Careaga Lease Water Well No. 2"), there are no water wells within a mile of the Careaga Lease.

Careaga Lease Water Well No. 2 is 300 feet deep and draws water from the bottom most portion of the Careaga Fm. The well is not considered to be a financially practical solution due to the low quantity and quality of water it produces. Reverse osmosis and other treatment processes are used to improve the quality. Careaga Lease Water Well No. 1 was an attempt made prior to drilling this well, but was unsuccessful due to a lack of sufficient water yield and thus abandoned – highlighting the fact that yield is limited or does not exist in this extreme northern edge of the San Antonio Basin.

The next-closest water well to the Careaga Lease is an agricultural water well. This well is approximately 7,500 feet (1.4 miles) from the lease boundary. This well is one of 13 wells identified by field reconnaissance as agricultural wells, all of which are more than 1.4 miles from the lease. Additionally, there are three presumed private domestic water wells were identified at residences on Graciosa Road, adjacent to State Highway 1. The domestic well locations are more than 2 miles to the west of the lease boundary.

The large parcel of land to the immediate north and northwest of the SME site is the continuation of the Orcutt Oil Field which is operated by Pacific Coast Energy Company (PCEC). PCEC confirmed no water wells exist on its property.

7) Historic water quality data available for any wells within a half mile radius of any current or historic sump. Appendix D lists the constituents we are most interested in for historical data (as well as current data).

Careaga Lease Water Well No. 2 is the only water well located on the Careaga Lease in the Orcutt Oil Field. Refer to Appendix D for the water data from this well.

8) Current sampling results for any wells within a half mile radius of any current or historic sump. You are required to sample these wells for the constituents listed in Appendix D and submit the results in your technical report.

See response to #7.

9) Locations, well construction, and survey data for any monitoring wells in the vicinity of any current or historic sumps, and water quality data associated with these wells.

There are no monitoring wells on the Careaga Lease in the Orcutt Oil Field.

If you have any questions or require additional information, please contact Ramon Elias at (805) 621-5604 or Beth Marino at (805) 621-5615.

CERTIFICATION:

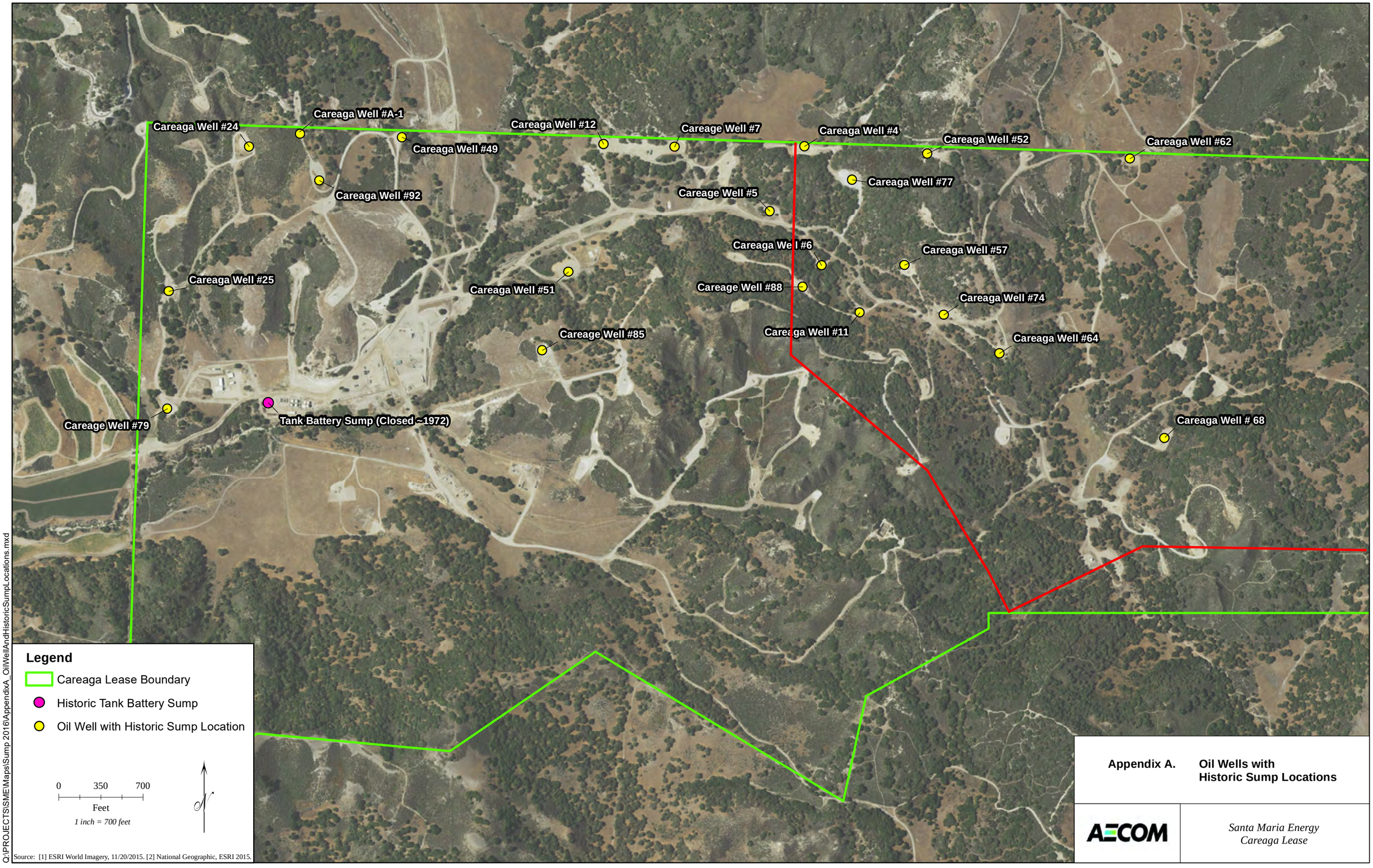
I certify under penalty of law that I have personally examined and am familiar with the information submitted in the document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SANTA MARIA ENERGY, LLC

By: Ramon Elias
Its: Vice-President of Reservoir Engineering

Attachments:
- Appendix A: Oil Wells with Historic Sump Locations
- Appendix B: Historic Sump Table
- Appendix C: Location of Nearby Water Wells
- Appendix D: Water Well tests for On-site Well

cc: Julie Macedo, State Water Board (julie.macedo@waterboards.ca.gov)
Janice Zinky, State Water Board (janice.zinky@waterboards.ca.gov)
Eric Gillman, State Water Board (eric.gillman@waterboards.ca.gov)
John Robertson, Central Coast Water Board (john.robertson@waterboards.ca.gov)
Aaron Katona, Central Coast Water Board (aaron.katona@waterboards.ca.gov)



Legend

- Careaga Lease Boundary
- Historic Tank Battery Sump
- Oil Well with Historic Sump Location

0 350 700
Feet
1 inch = 700 feet

Source: [1] ESRI World Imagery, 11/20/2015. [2] National Geographic, ESRI 2015.

Appendix A. **Oil Wells with Historic Sump Locations**

AECOM

Santa Maria Energy
Careaga Lease

Q:\PROJECTS\SME\Maps\Sump 2016\AppendixA_OilWellAndHistoricSumpLocations.mxd

THE INFORMATION IS REQUIRED PURSUANT TO CALIFORNIA WATER CODE SECTION 13267
CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD, FRESNO, CA

Santa Maria Energy, LLC Historic Sump Report December 15, 2015

A.	B.	C.	D.	E.		F.	G.	H.	I.	J.	K.	L.	M.	N.	O.
Owner and/or Operator	Field Name	County	Sump Name/Description	Sump Location Latitude	Longitude	(LxWxD) Sump Volume in ft.^{3}	When Was the Sump First Excavated?	How Many Years Was the Sump Active?	Total Annual Amount of Fluid Discharged in bbls.	Composition of Fluid(s)	Was Sump filled with Soil or Other Material? (Yes/No)	When Was the Sump Filled?	What Material Was Used to Fill the Sump?	Was There Solidified Waste? (Yes/No)	If Yes, What Was the Composition of those Solids?
SME	Orcutt	Santa Barbara	Careaga Well #4	34.818894085	120.387249531	Unknown	Jan. 1916	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #5	34.817398853	120.388163947	Unknown	Mar. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #6	34.816190783	120.386696432	Unknown	April. 1902	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #7	34.818812448	120.390838890	Unknown	May. 1902	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #11	34.815132622	120.385615191	Unknown	Dec. 1903	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #12	34.818835597	120.392810217	Unknown	Nov. 1902	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #24	34.818585650	120.402607961	Unknown	July. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #25	34.815246020	120.404736011	Unknown	Oct. 1905	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #49	34.818883246	120.398383640	Unknown	Oct. 1912	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #51	34.815902288	120.393697665	Unknown	Feb. 1913	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #52	34.818797079	120.383850995	Unknown	July. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #57	34.816240791	120.384408675	Unknown	May. 1916	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #62	34.818787559	120.378247372	Unknown	April. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #64	34.814279543	120.381720525	Unknown	Nov. 1918	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well # 68	34.812908241	120.378108003	Unknown	Dec. 1919	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #74	34.815124242	120.383290459	Unknown	Jan. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #77	34.818161715	120.385911009	Unknown	Mar. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #79	34.812562570	120.404698481	Unknown	Jan. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #85	34.814100152	120.394366454	Unknown	Oct. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careage Well #88	34.815689628	120.387206890	Unknown	June. 1920	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #92	34.817848220	120.400641938	Unknown	Oct. 1922	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Careaga Well #A-1	34.818906178	120.401210824	Unknown	April. 1930	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
SME	Orcutt	Santa Barbara	Tank Battery Sump (Closed ~1972)	34.812753	120.401913	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	

SME Water Well

Gracioosa Rd

Harris Grade Rd

San Antonio Rd

Palmer Rd

US-101

Coast Ranges

Legend

- Santa Maria Energy Site Location
- Non-USDW Boundary
- One Mile Radius from Non-USDW Boundary
- Oil Well
- Agricultural Irrigation Water Well
- Santa Maria Energy Water Well
- Presumed Domestic Well

0 1,250 2,500 5,000

Feet

1 inch = 2,500 feet

Source: [1] Bing Maps Hybrid, © 2014 Microsoft Corporation.

Appendix C	**Location of Nearby Water Wells**
URS	SANTA MARIA ENERGY *Non-USDW Demonstration for Diatomite* *Careaga Lease of Orcutt Oil Field* *Santa Barbara County, California*

Q:\PROJECTS\SME\Maps\Diatomite 136 Well\AppendixC_WaterWellLocations.mxd

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Engineering Laboratories

Certificate of Analysis

Amanda Smith
Abalone Coast Analytical, Inc.
141 Suburban, Suite C-1
San Luis Obispo, CA 93401

Report Issue Date: 07/28/2011 15:23
Received Date: 07/15/2011
Received Time: 07:45

Lab Sample ID: A1G1122-01
Sample Date: 07/14/2011 11:30
Sample Type: Grab

Client Project: 11-4082 F&T Drilling
Sampled by: Client
Matrix: Drinking Water

Sample Description: 7980 Graciosa Rd // 11-4082-1

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Aggressive Index		13				A108783	07/26/11	07/26/11	
Alkalinity as CaCO3	SM 2320 B	310	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Bicarbonate as CaCO3	SM 2320 B	310	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A108320	07/17/11	07/17/11	
Chloride	EPA 300.0	430	10	mg/L	10	A108298	07/16/11	07/16/11	
*Color	SM 2120 B	30	1.0	Color Units	1	A108316	07/15/11 16:36	07/15/11 16:36	
Cyanide (total)	SM 4500-CN E	ND	0.0050	mg/L	1	A108586	07/22/11	07/22/11	
Conductivity @ 25C	SM 2510 B	2100	1.0	umhos/cm	1	A108320	07/17/11	07/17/11	
Fluoride	SM 4500-F C	0.22	0.10	mg/L	1	A108768	07/26/11	07/26/11	
Langelier Index	SM 2330 B	1.1				A108783	07/26/11	07/26/11	
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A108326	07/15/11 18:00	07/15/11 18:00	
Nitrate as NO3	EPA 300.0	ND	10	mg/L	10	A108298	07/16/11 04:10	07/16/11 04:10	DL01
Nitrite as N	EPA 300.0	ND	0.50	mg/L	10	A108298	07/16/11 04:10	07/16/11 04:10	DL01
*Threshold Odor	SM 2150 B	100	1.0	T.O.N.	1	A108316	07/15/11 16:36	07/15/11 16:36	
pH (1)	SM 4500-H+ B	7.9		pH Units	1	A108320	07/17/11	07/17/11	
pH Temperature in °C		21.0							
Sulfate as SO4	EPA 300.0	130	20	mg/L	10	A108298	07/16/11	07/16/11	
Total Dissolved Solids	SM 2540C	1400	5.0	mg/L	1	A108297	07/15/11	07/19/11	
Turbidity	SM 2130 B	14	0.20	NTU	2	A108316	07/15/11 16:36	07/15/11 16:36	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	0.43	0.050	mg/L	1	A108488	07/20/11	07/25/11	
Antimony	EPA 200.8	ND	2.0	ug/L	1	A108488	07/20/11	07/25/11	
Arsenic	EPA 200.8	3.8	2.0	ug/L	1	A108488	07/20/11	07/26/11	
Barium	EPA 200.7	0.31	0.050	mg/L	1	A108488	07/20/11	07/25/11	
Beryllium	EPA 200.8	ND	1.0	ug/L	1	A108488	07/20/11	07/25/11	
Cadmium	EPA 200.8	ND	1.0	ug/L	1	A108488	07/20/11	07/25/11	
Calcium	EPA 200.7	190	0.10	mg/L	1	A108488	07/20/11	07/25/11	
Chromium	EPA 200.8	ND	10	ug/L	1	A108488	07/20/11	07/25/11	
Copper	EPA 200.8	6.6	5.0	ug/L	1	A108488	07/20/11	07/25/11	
Iron	EPA 200.7	1.3	0.050	mg/L	1	A108488	07/20/11	07/25/11	
Lead	EPA 200.8	ND	5.0	ug/L	1	A108488	07/20/11	07/25/11	
Magnesium	EPA 200.7	62	0.10	mg/L	1	A108488	07/20/11	07/25/11	
Manganese	EPA 200.7	0.69	0.010	mg/L	1	A108488	07/20/11	07/25/11	

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Sample Type: Grab

Client Project: 11-4082 F&T Drilling
Sampled by: Client
Matrix: Drinking Water

Sample Description: 7980 Graciosa Rd // 11-4082-1

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Mercury	EPA 200.8	ND	0.40	ug/L	1	A108488	07/20/11	07/25/11	
Nickel	EPA 200.8	ND	10	ug/L	1	A108488	07/20/11	07/25/11	
Potassium	EPA 200.7	10	2.0	mg/L	1	A108488	07/20/11	07/25/11	
Selenium	EPA 200.8	11	2.0	ug/L	1	A108488	07/20/11	07/25/11	
Silver	EPA 200.8	ND	10	ug/L	1	A108488	07/20/11	07/25/11	
Sodium	EPA 200.7	170	1.0	mg/L	1	A108488	07/20/11	07/25/11	
Thallium	EPA 200.8	ND	1.0	ug/L	1	A108488	07/20/11	07/25/11	
Hardness as CaCO3	SM 2340B	720	0.41	mg/L					
Zinc	EPA 200.7	ND	0.050	mg/L	1	A108488	07/20/11	07/25/11	

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General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108297				Analyst: DEH		Prepared: 07/15/2011					
Blank (A108297-BLK1) SM 2540C - Quality Control											
Total Dissolved Solids	ND	5.0	mg/L							07/19/11	
Duplicate (A108297-DUP1) SM 2540C - Quality Control						Source: A1G1026-02					
Total Dissolved Solids	120	5.0	mg/L		120			3	20	07/19/11	
Batch: A108298				Analyst: AJT		Prepared: 07/15/2011					
Blank (A108298-BLK1) EPA 300.0 - Quality Control											
Chloride	ND	1.0	mg/L							07/15/11	
Nitrate as NO3	ND	1.0	mg/L							07/15/11	
Nitrite as N	ND	0.050	mg/L							07/15/11	
Sulfate as SO4	ND	2.0	mg/L							07/15/11	
Blank Spike (A108298-BS1) EPA 300.0 - Quality Control											
Chloride	51	1.0	mg/L	50		102	90-110			07/16/11	
Nitrate as NO3	51	1.0	mg/L	50		102	90-110			07/16/11	
Nitrite as N	0.52	0.050	mg/L	0.50		104	90-110			07/16/11	
Sulfate as SO4	52	2.0	mg/L	50		103	90-110			07/16/11	
Blank Spike Dup (A108298-BSD1) EPA 300.0 - Quality Control											
Chloride	51	1.0	mg/L	50		101	90-110	0	10	07/16/11	
Nitrate as NO3	51	1.0	mg/L	50		102	90-110	0	10	07/16/11	
Nitrite as N	0.53	0.050	mg/L	0.50		106	90-110	2	10	07/16/11	
Sulfate as SO4	51	2.0	mg/L	50		103	90-110	1	10	07/16/11	
Matrix Spike (A108298-MS1) EPA 300.0 - Quality Control						Source: A1G1026-06					
Chloride	120	2.0	mg/L	100	20	101	80-120			07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	2.5	103	80-120			07/16/11	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	105	80-120			07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	18	105	80-120			07/16/11	
Matrix Spike (A108298-MS2) EPA 300.0 - Quality Control						Source: A1G1108-05					
Chloride	110	2.0	mg/L	100	5.7	108	80-120			07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	3.6	109	80-120			07/16/11	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	104	80-120			07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	6.0	109	80-120			07/16/11	
Matrix Spike Dup (A108298-MSD1) EPA 300.0 - Quality Control						Source: A1G1026-06					
Chloride	120	2.0	mg/L	100	20	101	80-120	0	10	07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	2.5	103	80-120	0	10	07/16/11	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	108	80-120	3	20	07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	18	104	80-120	1	10	07/16/11	
Matrix Spike Dup (A108298-MSD2) EPA 300.0 - Quality Control						Source: A1G1108-05					
Chloride	110	2.0	mg/L	100	5.7	109	80-120	1	10	07/16/11	
Nitrate as NO3	110	2.0	mg/L	100	3.6	109	80-120	0	10	07/16/11	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	100	80-120	4	20	07/16/11	
Sulfate as SO4	120	4.0	mg/L	100	6.0	110	80-120	1	10	07/16/11	

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General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108298				Analyst: AJT		Prepared: 07/16/2011					
Batch: A108316				Analyst: CEG		Prepared: 07/15/2011					
Blank (A108316-BLK1) SM 2120 B - Quality Control											
Color	ND	1.0	Color Units							07/15/11	
Threshold Odor	ND	1.0	T.O.N.							07/15/11	
Turbidity	ND	0.10	NTU							07/15/11	
Duplicate (A108316-DUP1) SM 2120 B - Quality Control					Source: A1G1110-01						
Color	ND	1.0	Color Units		ND				20	07/15/11	
Threshold Odor	ND	1.0	T.O.N.		ND				20	07/15/11	
Turbidity	ND	0.10	NTU		ND				20	07/15/11	
Batch: A108320				Analyst: CEG		Prepared: 07/17/2011					
Blank (A108320-BLK1) SM 2320 B - Quality Control											
Alkalinity as CaCO3	ND	3.0	mg/L							07/17/11	
Bicarbonate as CaCO3	ND	3.0	mg/L							07/17/11	
Carbonate as CaCO3	ND	3.0	mg/L							07/17/11	
Conductivity @ 25C	ND	1.0	umhos/cm							07/17/11	
Hydroxide as CaCO3	ND	3.0	mg/L							07/17/11	
Blank Spike (A108320-BS1) SM 2320 B - Quality Control											
Alkalinity as CaCO3	95	3.0	mg/L	100		95	80-120			07/17/11	
Blank Spike Dup (A108320-BSD1) SM 2320 B - Quality Control											
Alkalinity as CaCO3	93	3.0	mg/L	100		93	80-120	2	20	07/17/11	
Duplicate (A108320-DUP1) SM 2320 B - Quality Control					Source: A1G1066-01						
Alkalinity as CaCO3	68	3.0	mg/L		62			9	10	07/17/11	
Bicarbonate as CaCO3	68	3.0	mg/L		62			9	10	07/17/11	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
Conductivity @ 25C	160	1.0	umhos/cm		160			1	20	07/17/11	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
pH (1)	7.7		pH Units		7.7			0	20	07/17/11	
Duplicate (A108320-DUP2) SM 2320 B - Quality Control					Source: A1G1110-03						
Alkalinity as CaCO3	270	3.0	mg/L		270			1	10	07/17/11	
Bicarbonate as CaCO3	270	3.0	mg/L		270			1	10	07/17/11	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
Conductivity @ 25C	690	1.0	umhos/cm		680			1	20	07/17/11	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	07/17/11	
pH (1)	8.1		pH Units		8.1			1	20	07/17/11	
Batch: A108326				Analyst: LJL		Prepared: 07/15/2011					
Blank (A108326-BLK1) SM 5540 C - Quality Control											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							07/15/11	
Blank Spike (A108326-BS1) SM 5540 C - Quality Control											

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General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108326				Analyst: LJL		Prepared: 07/15/2011					
Blank Spike (A108326-BS1) SM 5540 C - Quality Control											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0		101	80-120			07/15/11	
Blank Spike Dup (A108326-BSD1) SM 5540 C - Quality Control											
MBAS, Calculated as LAS, mol wt 340	0.97	0.050	mg/L	1.0		97	80-120	4	20	07/15/11	
Matrix Spike (A108326-MS1) SM 5540 C - Quality Control						Source: A1G1110-01					
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	102	80-120			07/15/11	
Matrix Spike Dup (A108326-MSD1) SM 5540 C - Quality Control						Source: A1G1110-01					
MBAS, Calculated as LAS, mol wt 340	0.99	0.050	mg/L	1.0	ND	99	80-120	3	20	07/15/11	
Batch: A108586				Analyst: LJL		Prepared: 07/22/2011					
Blank (A108586-BLK1) SM 4500-CN E - Quality Control											
Cyanide (total)	ND	0.0050	mg/L							07/22/11	
Blank Spike (A108586-BS1) SM 4500-CN E - Quality Control											
Cyanide (total)	0.48	0.0050	mg/L	0.50		97	80-120			07/22/11	
Blank Spike Dup (A108586-BSD1) SM 4500-CN E - Quality Control											
Cyanide (total)	0.48	0.0050	mg/L	0.50		97	80-120	0	20	07/22/11	
Matrix Spike (A108586-MS1) SM 4500-CN E - Quality Control						Source: A1G1485-01					
Cyanide (total)	0.45	0.0050	mg/L	0.50	ND	90	80-120			07/22/11	
Matrix Spike (A108586-MS2) SM 4500-CN E - Quality Control						Source: A1G1238-01					
Cyanide (total)	0.51	0.0050	mg/L	0.50	ND	102	80-120			07/22/11	
Matrix Spike Dup (A108586-MSD1) SM 4500-CN E - Quality Control						Source: A1G1485-01					
Cyanide (total)	0.51	0.0050	mg/L	0.50	ND	103	80-120	13	20	07/22/11	
Matrix Spike Dup (A108586-MSD2) SM 4500-CN E - Quality Control						Source: A1G1238-01					
Cyanide (total)	0.51	0.0050	mg/L	0.50	ND	101	80-120	1	20	07/22/11	
Batch: A108768				Analyst: RMJ		Prepared: 07/26/2011					
Blank (A108768-BLK1) SM 4500-F C - Quality Control											
Fluoride	ND	0.10	mg/L							07/26/11	
Blank Spike (A108768-BS1) SM 4500-F C - Quality Control											
Fluoride	0.99	0.10	mg/L	1.0		99	80-120			07/26/11	
Blank Spike Dup (A108768-BSD1) SM 4500-F C - Quality Control											
Fluoride	1.0	0.10	mg/L	1.0		104	80-120	5	20	07/26/11	
Matrix Spike (A108768-MS1) SM 4500-F C - Quality Control						Source: A1G1110-02					
Fluoride	1.4	0.10	mg/L	1.0	0.36	102	80-120			07/26/11	

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Batch: A108768				Analyst: RMJ		Prepared: 07/26/2011					
Matrix Spike (A108768-MS2)	**SM 4500-F C - Quality Control**					**Source: A1G1160-07**					
Fluoride	0.93	0.10	mg/L	1.0	ND	90	80-120			07/26/11	
Matrix Spike Dup (A108768-MSD1)	**SM 4500-F C - Quality Control**					**Source: A1G1110-02**					
Fluoride	1.4	0.10	mg/L	1.0	0.36	107	80-120	4	20	07/26/11	
Matrix Spike Dup (A108768-MSD2)	**SM 4500-F C - Quality Control**					**Source: A1G1160-07**					
Fluoride	0.97	0.10	mg/L	1.0	ND	94	80-120	4	20	07/26/11	

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Engineering Laboratories

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108488				Analyst: NRE		Prepared: 07/20/2011					
Blank (A108488-BLK2) EPA 200.7 - Quality Control											
Aluminum	ND	0.050	mg/L							07/25/11	
Barium	ND	0.050	mg/L							07/25/11	
Calcium	ND	0.10	mg/L							07/25/11	
Iron	ND	0.050	mg/L							07/25/11	
Magnesium	ND	0.10	mg/L							07/25/11	
Manganese	ND	0.010	mg/L							07/25/11	
Potassium	ND	2.0	mg/L							07/25/11	
Sodium	ND	1.0	mg/L							07/25/11	
Zinc	ND	0.050	mg/L							07/25/11	
Blank Spike (A108488-BS2) EPA 200.7 - Quality Control											
Aluminum	0.20	0.050	mg/L	0.20		101	85-115			07/25/11	
Barium	0.20	0.050	mg/L	0.20		99	85-115			07/25/11	
Calcium	9.8	0.10	mg/L	10		98	85-115			07/25/11	
Iron	2.0	0.050	mg/L	2.0		99	85-115			07/25/11	
Magnesium	9.7	0.10	mg/L	10		97	85-115			07/25/11	
Manganese	0.20	0.010	mg/L	0.20		100	85-115			07/25/11	
Potassium	9.6	2.0	mg/L	10		96	85-115			07/25/11	
Sodium	9.9	1.0	mg/L	10		99	85-115			07/25/11	
Zinc	0.20	0.050	mg/L	0.20		99	85-115			07/25/11	
Blank Spike Dup (A108488-BSD2) EPA 200.7 - Quality Control											
Aluminum	0.20	0.050	mg/L	0.20		99	85-115	2	20	07/25/11	
Barium	0.20	0.050	mg/L	0.20		98	85-115	1	20	07/25/11	
Calcium	9.7	0.10	mg/L	10		97	85-115	1	20	07/25/11	
Iron	1.9	0.050	mg/L	2.0		97	85-115	2	20	07/25/11	
Magnesium	9.5	0.10	mg/L	10		95	85-115	2	20	07/25/11	
Manganese	0.19	0.010	mg/L	0.20		97	85-115	2	20	07/25/11	
Potassium	9.5	2.0	mg/L	10		95	85-115	1	20	07/25/11	
Sodium	9.9	1.0	mg/L	10		99	85-115	0	20	07/25/11	
Zinc	0.19	0.050	mg/L	0.20		96	85-115	3	20	07/25/11	
Matrix Spike (A108488-MS3) EPA 200.7 - Quality Control						Source: A1G1118-05					
Aluminum	0.22	0.050	mg/L	0.20	ND	98	70-130			07/25/11	
Barium	0.20	0.050	mg/L	0.20	ND	100	70-130			07/25/11	
Calcium	12	0.10	mg/L	10	1.8	98	70-130			07/25/11	
Iron	2.0	0.050	mg/L	2.0	ND	97	70-130			07/25/11	
Magnesium	10	0.10	mg/L	10	0.43	96	70-130			07/25/11	
Manganese	0.21	0.010	mg/L	0.20	0.012	96	70-130			07/25/11	
Potassium	9.9	2.0	mg/L	10	ND	99	70-130			07/25/11	
Sodium	14	1.0	mg/L	10	4.2	101	70-130			07/25/11	
Zinc	0.41	0.050	mg/L	0.20	0.21	99	70-130			07/25/11	
Matrix Spike Dup (A108488-MSD3) EPA 200.7 - Quality Control						Source: A1G1118-05					
Aluminum	0.23	0.050	mg/L	0.20	ND	102	70-130	4	20	07/25/11	
Barium	0.20	0.050	mg/L	0.20	ND	101	70-130	1	20	07/25/11	
Calcium	12	0.10	mg/L	10	1.8	102	70-130	4	20	07/25/11	
Iron	2.0	0.050	mg/L	2.0	ND	100	70-130	3	20	07/25/11	

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Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108488				Analyst: NRE		Prepared: 07/20/2011					
Matrix Spike Dup (A108488-MSD3)	**EPA 200.7 - Quality Control**						**Source: A1G1118-05**				
Magnesium	10	0.10	mg/L	10	0.43	100	70-130	5	20	07/25/11	
Manganese	0.21	0.010	mg/L	0.20	0.012	99	70-130	2	20	07/25/11	
Potassium	10	2.0	mg/L	10	ND	102	70-130	4	20	07/25/11	
Sodium	14	1.0	mg/L	10	4.2	101	70-130	1	20	07/25/11	
Zinc	0.42	0.050	mg/L	0.20	0.21	102	70-130	1	20	07/25/11	
Blank (A108488-BLK1)	**EPA 200.8 - Quality Control**										
Antimony	ND	2.0	ug/L							07/25/11	
Arsenic	ND	2.0	ug/L							07/25/11	
Beryllium	ND	1.0	ug/L							07/25/11	
Cadmium	ND	1.0	ug/L							07/25/11	
Chromium	ND	10	ug/L							07/25/11	
Copper	ND	5.0	ug/L							07/25/11	
Lead	ND	5.0	ug/L							07/25/11	
Mercury	ND	0.40	ug/L							07/25/11	
Nickel	ND	10	ug/L							07/25/11	
Selenium	ND	2.0	ug/L							07/25/11	
Silver	ND	10	ug/L							07/25/11	
Thallium	ND	1.0	ug/L							07/25/11	
Blank Spike (A108488-BS1)	**EPA 200.8 - Quality Control**										
Antimony	210	2.0	ug/L	200		103	85-115			07/25/11	
Arsenic	200	2.0	ug/L	200		99	85-115			07/25/11	
Beryllium	190	1.0	ug/L	200		95	85-115			07/25/11	
Cadmium	200	1.0	ug/L	200		100	85-115			07/25/11	
Chromium	200	10	ug/L	200		98	85-115			07/25/11	
Copper	180	5.0	ug/L	200		92	85-115			07/25/11	
Lead	200	5.0	ug/L	200		102	85-115			07/25/11	
Mercury	5.1	0.40	ug/L	5.0		103	85-115			07/25/11	
Nickel	190	10	ug/L	200		95	85-115			07/25/11	
Selenium	190	2.0	ug/L	200		96	85-115			07/25/11	
Silver	92	10	ug/L	100		92	75-125			07/25/11	
Thallium	210	1.0	ug/L	200		107	85-115			07/25/11	
Blank Spike Dup (A108488-BSD1)	**EPA 200.8 - Quality Control**										
Antimony	200	2.0	ug/L	200		102	85-115	1	20	07/25/11	
Arsenic	190	2.0	ug/L	200		97	85-115	2	20	07/25/11	
Beryllium	180	1.0	ug/L	200		92	85-115	4	20	07/25/11	
Cadmium	190	1.0	ug/L	200		97	85-115	3	20	07/25/11	
Chromium	190	10	ug/L	200		95	85-115	3	20	07/25/11	
Copper	180	5.0	ug/L	200		90	85-115	2	20	07/25/11	
Lead	200	5.0	ug/L	200		99	85-115	3	20	07/25/11	
Mercury	4.8	0.40	ug/L	5.0		97	85-115	6	20	07/25/11	
Nickel	190	10	ug/L	200		93	85-115	2	20	07/25/11	
Selenium	190	2.0	ug/L	200		96	85-115	0	20	07/25/11	
Silver	92	10	ug/L	100		92	75-125	0	20	07/25/11	
Thallium	200	1.0	ug/L	200		102	85-115	4	20	07/25/11	

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Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Batch: A108488				Analyst: PSK		Prepared: 07/20/2011					
Matrix Spike (A108488-MS1)	**EPA 200.8 - Quality Control**					**Source: A1G1118-05**					
Antimony	210	2.0	ug/L	200	ND	103	70-130			07/25/11	
Arsenic	200	2.0	ug/L	200	ND	98	70-130			07/25/11	
Beryllium	180	1.0	ug/L	200	ND	92	70-130			07/25/11	
Cadmium	200	1.0	ug/L	200	ND	99	70-130			07/25/11	
Chromium	190	10	ug/L	200	ND	95	70-130			07/25/11	
Copper	200	5.0	ug/L	200	17	91	70-130			07/25/11	
Lead	190	5.0	ug/L	200	ND	97	70-130			07/25/11	
Mercury	5.0	0.40	ug/L	5.0	ND	100	70-130			07/25/11	
Nickel	190	10	ug/L	200	ND	92	70-130			07/25/11	
Selenium	190	2.0	ug/L	200	ND	95	70-130			07/25/11	
Silver	92	10	ug/L	100	ND	92	70-130			07/25/11	
Thallium	210	1.0	ug/L	200	ND	107	70-130			07/25/11	
Matrix Spike (A108488-MS2)	**EPA 200.8 - Quality Control**					**Source: A1G1124-02**					
Antimony	220	2.0	ug/L	200	ND	109	70-130			07/25/11	
Arsenic	200	2.0	ug/L	200	3.0	99	70-130			07/25/11	
Beryllium	190	1.0	ug/L	200	ND	93	70-130			07/25/11	
Cadmium	200	1.0	ug/L	200	ND	101	70-130			07/25/11	
Chromium	220	10	ug/L	200	20	97	70-130			07/25/11	
Copper	190	5.0	ug/L	200	ND	91	70-130			07/25/11	
Lead	180	5.0	ug/L	200	ND	90	70-130			07/25/11	
Mercury	5.1	0.40	ug/L	5.0	ND	102	70-130			07/25/11	
Nickel	180	10	ug/L	200	ND	91	70-130			07/25/11	
Selenium	210	2.0	ug/L	200	4.9	100	70-130			07/25/11	
Silver	92	10	ug/L	100	ND	92	70-130			07/25/11	
Thallium	200	1.0	ug/L	200	ND	98	70-130			07/25/11	
Matrix Spike Dup (A108488-MSD1)	**EPA 200.8 - Quality Control**					**Source: A1G1118-05**					
Antimony	210	2.0	ug/L	200	ND	105	70-130	2	20	07/25/11	
Arsenic	200	2.0	ug/L	200	ND	98	70-130	0	20	07/25/11	
Beryllium	190	1.0	ug/L	200	ND	93	70-130	0	20	07/25/11	
Cadmium	200	1.0	ug/L	200	ND	99	70-130	0	20	07/25/11	
Chromium	190	10	ug/L	200	ND	95	70-130	1	20	07/25/11	
Copper	200	5.0	ug/L	200	17	91	70-130	0	20	07/25/11	
Lead	190	5.0	ug/L	200	ND	94	70-130	3	20	07/25/11	
Mercury	4.9	0.40	ug/L	5.0	ND	99	70-130	2	20	07/25/11	
Nickel	190	10	ug/L	200	ND	90	70-130	2	20	07/25/11	
Selenium	190	2.0	ug/L	200	ND	97	70-130	2	20	07/25/11	
Silver	93	10	ug/L	100	ND	93	70-130	1	20	07/25/11	
Thallium	210	1.0	ug/L	200	ND	104	70-130	3	20	07/25/11	
Matrix Spike Dup (A108488-MSD2)	**EPA 200.8 - Quality Control**					**Source: A1G1124-02**					
Antimony	220	2.0	ug/L	200	ND	111	70-130	2	20	07/25/11	
Arsenic	200	2.0	ug/L	200	3.0	100	70-130	1	20	07/25/11	
Beryllium	190	1.0	ug/L	200	ND	93	70-130	1	20	07/25/11	
Cadmium	200	1.0	ug/L	200	ND	101	70-130	0	20	07/25/11	
Chromium	210	10	ug/L	200	20	97	70-130	1	20	07/25/11	
Copper	180	5.0	ug/L	200	ND	90	70-130	1	20	07/25/11	

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Certificate of Analysis

07/28/2011

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
- Sample(s) received, prepared, and analyzed within the method specified criteria unless otherwise noted within this report.
- The results relate only to the samples analyzed in accordance with test(s) requested by the client on the Chain of Custody document. Any analytical quality control exceptions to method criteria that are to be considered when evaluating these results have been flagged and are defined in the data qualifiers section.
- All results are expressed on wet weight basis unless otherwise specified.
- All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Results contained in this analytical report must be reproduced in its entirety.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses unless qualified or noted in the Case Narrative.
- Analytical data contained in this report may be used for regulatory purposes to meet the requirements of the Federal or State drinking water, wastewater, and hazardous waste programs.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals. Samples submitted to the laboratory have been analyzed outside of this holding time requirement.
- * - This is not a NELAP accredited analyte.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- (2) The digestion used to produce this result deviated from EPA 200.2 by excluding hydrochloric acid in order to produce acceptable recoveries for affected metals.
- (2C) Result reported from secondary analytical column.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.

Certifications:

State of California - CDPH - ELAP	1180
State of California - CDPH - NELAP	04227CA
State of New Mexico - NMED-DWB	
State of Nevada - NDEP	CA000792009A

Definitions and Flags for Data Qualifiers

mg/L:	Milligrams/Liter (ppm)	M:	Method Detection Limit	MDA:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)		:DL x Dilution	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	ND:	None Detected at RL	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	pCi/L:	Picocuries per Liter	Present:	1 or more CFU/100mLs
		NR:	Non-Reportable	RL Mult:	RL Multiplier

DL01 Sample required dilution due to matrix or high concentration of non-target analyte.

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Batch: A108488				Analyst: PSK		Prepared: 07/20/2011					
Matrix Spike Dup (A108488-MSD2)	**EPA 200.8 - Quality Control**					**Source: A1G1124-02**					
Lead	180	5.0	ug/L	200	ND	89	70-130	2	20	07/25/11	
Mercury	4.8	0.40	ug/L	5.0	ND	97	70-130	5	20	07/25/11	
Nickel	180	10	ug/L	200	ND	90	70-130	2	20	07/25/11	
Selenium	210	2.0	ug/L	200	4.9	102	70-130	2	20	07/25/11	
Silver	93	10	ug/L	100	ND	93	70-130	0	20	07/25/11	
Thallium	200	1.0	ug/L	200	ND	100	70-130	2	20	07/25/11	

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Appendix E

Field Sampling Protocols

WATERSTONE ENVIRONMENTAL, INC,
STANDARD PROTOCOL
FOR
SOIL SAMPLING USING DIRECT PUSH
DRILL METHOD

Undisturbed soil samples are collected using a modified piston drive sampler. The soil sampling device is deployed, by a Direct Push rig at all locations. The Direct Push unit is a rig with a hydraulic system that is used to push hollow steel rods with a sampling device at the end of the rods through the subsurface. The Direct Push rig pushes the sampling device to the targeted depth for sample retrieval.

Once the soil sampling device is positioned at the appropriate depth, the tip of the device is retracted inside the soil sampling probe and the probe is advanced 2.0 feet to allow soil to enter the sampling device. The sampling device is lined with two-foot-long acetate liners. Upon retrieval of the soil sampling device, the brass tube at the lower end of the sampler is covered with Teflon tape and plastic end caps, labeled identifying the date the sample is collected and an identification designation, and placed in a cooler to be shipped to a certified analytical laboratory.

The material in the remaining brass tubes/acetate sleeve are placed in a ziplock bag to conduct headspace testing on the material after sufficient volatilization had occurred (approximately 5 minutes). The probe of a portable photoionization detector (PID) calibrated to isobutylene is placed inside the bag to monitor for volatile organic vapors. Following headspace measurements, the sample is visually inspected by the site hydrogeologist and classified using the Unified Soil Classification System. The soil is inspected for color, texture, grain size distribution, moisture content, odor, and any other distinguishing characteristics. Lithologic data, PID readings and other pertinent data are recorded on a boring log.

Prior to sampling, all reusable sampling equipment is decontaminated by washing in a solution of non-phosphate soap and water. The equipment is then double rinsed in distilled water. The sample push rods are steam cleaned on-site between each sample location. The rinsate water is placed in Department of Transportation approved 55 gallon drums and centralized to an on-site location.

All soil sample locations are backfilled with bentonite chips and hydrated and then capped with asphalt patch or concrete to grade.

WATERSTONE ENVIRONMENTAL, INC.
STANDARD PROTOCOL
FOR
COLLECTION OF SOIL SAMPLES
BY TERRA CORE SAMPLER

This method minimizes the loss of volatile compounds from soil samples in accordance with EPA Method 5035. Soil or other solid sampling material is collected in-situ or from the end of a sample collected by means of a drive sampler, split spoon sampler or direct push rig. In some instances, the Terra Core™ device may be driven directly into the soil, such as within an intact block of undisturbed soil brought the surface within a backhoe bucket.

Prepared glassware is obtained from the laboratory, namely 40ml glass VOAs vial containing the appropriate preservative(s). With the plunger seated in the handle, push the Terra Core™ into the soil. Wipe all soil or debris from the outside of the Terra Core™ sampler. The soil plug should be flush with the mouth of the sampler. Remove any excess soil that extends beyond the mouth of the sampler. Rotate the plunger that was seated in the handle top 90° until it is aligned with the slots in the body. Place the mouth of the sampler into the 40ml VOA vial containing the appropriate preservative, and extrude the sample by pushing the plunger down. Quickly place the lid back on the 40ml VOA vial. Repeat this process until all of the containers of a sample set are filled.

The sample is properly labelled and placed in a cooler with ice for temporary storage and transfer to the analytical laboratory.

WATERSTONE ENVIRONMENTAL, Inc.,
STANDARD PROTOCOL
FOR PERFORMING A SOIL VAPOR SURVEY

The survey is performed in accordance with the protocols outlined in the California Environmental Protection Agency (DTSC/LARWQCB/SFRWQCB) Advisory for Active Soil Gas Investigations (July 2015). The soil gas sampling system is constructed of stainless-steel, poly, and Nylaflow or Teflon components. Instrumentation associated with the sampling system includes a calibrated flow-meter and vacuum gauge.

Semi-permanent soil gas boring locations will be constructed using a stainless-steel probe that will be driven into the ground using a direct push sampling rig or by drilling a boring with a hollow stem auger drill rig. The probe rod will be advanced to the desired sampling depth. The probe will then be removed from the borehole, six-inches of clean, graded sand will be poured to the bottom of the bore hole and then tubing will be inserted into the borehole. The bottom end of the tubing will be outfitted with a filter that allows for the free flow of soil gas from the formation through the tubing to the surface, where the samples were subsequently obtained. Once the tubing is in place, six-inches of clean, graded sand will be poured around the filter at the bottom of the tubing to allow for diffusion of soil vapors. One foot of non-hydrated bentonite will then be placed above the sand pack. The remaining annulus will be filled with hydrated bentonite/cement slurry to grade. A drawing of the proposed probe tip design and construction is attached. The equilibration time will be either two hours (if direct push) or 48 hours (if hollow stem auger) depending on the installation method.

A default of 3 purge volumes will be used per LARWQCB/DTSC guidance.

Leakage during soil gas sampling may dilute samples with ambient air and produce results that underestimate actual site concentrations or contaminate the sample with external contaminants. Leak tests should be conducted to determine whether leakage is present. A leak test will be conducted at every soil gas probe. A tracer compound, such as isopropanol (not a suspected chemical of concern), may be used as a leak check compound to be placed at any location where ambient air could enter the sampling system or where cross contamination may occur, immediately before sampling. Locations of potential ambient air intrusion include sample system connections, surface bentonite seals (e.g., around rods and tubing) or the top of the temporary soil gas probe. The leak test will include an analysis of the leak check compound. If a leak check compound is detected in the sample, the following actions should be followed:

- The cause of the leak should be evaluated, determined, and corrected through confirmation sampling;
- If the leak check compound is suspected or detected as a Site-specific contaminant, a new leak check compound should be used;
- If leakage is confirmed and the problem cannot be corrected, the soil gas probe should be properly decommissioned;
- A replacement probe should be installed at least 5 feet from the original probe decommissioned due to confirmed leakage, and
- The leak check compound concentration detected in the soil gas sample should be included and discussed in the report.

After purging, soil gas samples will be withdrawn from the tubing using a syringe fitted with a disposable needle and gas-tight valve. The soil gas samples will immediately be transferred to the on-site mobile lab for direct injection into a gas chromatograph/mass spectrometer (GC/MS) for analysis of VOCs and TPH. The soil gas sample's holding time will be 30 minutes if in glass syringes, or 6 hours if in tedlar bags. A field log will be maintained to document probe installation completion time and the start of purging time to validate the equilibration times and documentation of sample collection time to validate holding time after the sample analysis.

In accordance with the LARWQCB/DTSC protocols, a minimum of one field duplicate sample for each day of soil gas sampling will be collected and analyzed for VOCs, at a minimum frequency of ten percent. The duplicate samples will be collected in separate containers immediately after the primary samples are analyzed. A soil gas method blank sample will also be analyzed for each day of soil gas sampling.

Once sampling is completed, the upper portion of the borehole and the sample tubing will be removed and the borehole annulus will be backfilled with hydrated bentonite to grade.

Prior to sampling, all reusable sampling equipment is decontaminated by washing in a solution of non-phosphate soap and water. The equipment is then rinsed in tap water, and then rinsed in distilled water. The rinsate water is placed in Department of Transportation approved 55 gallon drums and centralized to an on-site location or used to hydrate the bentonite used to seal the borehole, and mix with the concrete to cap the borehole. All soil vapor sample locations are backfilled with bentonite chips and hydrated and then capped with asphalt patch or concrete to grade.

WATERSTONE ENVIRONMENTAL, INC.,
STANDARD PROTOCOL

Collection Of Soil Samples From A Backhoe Bucket

A backhoe bucket is used to retrieve an intact block of soil from the required sample depth and location. The backhoe operator is instructed to collect a "block" of soil from the face or bottom of the excavation to ensure that the most undisturbed sample possible can be collected. The backhoe operator utilizes the hoe in such a way that the "block" rotates or slumps as little as possible while the soil is being lifted from the trench. If slough or disturbed soil is brought up in the bucket, the field scientist instructs the backhoe operator to collect another sample from the undisturbed face of the trench. For shallow trenches less than 3 feet deep, samples may be collected directly from the bottom or sidewalls.

The top 6-inches of soil are removed from the open face of soil in the backhoe bucket using a clean hand held spatula or trowel. Each soil sample is collected by hand driving a 6-inch brass tube into the undisturbed portion of the soil in the backhoe bucket. Precautions are taken to collect soil from the center of the soil block and not near or next to any sides of the bucket which may contain disturbed soil or contamination from other locations of the trench. The sample tubes are removed from the sampler and trimmed of excess soil. The end of the sample tube is covered with squares of Teflon sheeting, plastic end caps, and waterproof , labeled, and placed inside a ziplock bag. A sample label is attached to each tube identifying the date the sample was collected, a unique identification number, and other identifying information

Soil samples are placed in a thermally insulated container with ice and shipped or couriered to a State-certified hazardous waste-testing laboratory (or delivered immediately to an on-site mobile laboratory) using the appropriate chain-of-custody procedures.

Prior to and between the sampling intervals, all reusable equipment is decontaminated by washing in a non-phosphate detergent (Alconox) solution. The equipment is then rinsed in tap water, and then rinsed in distilled water.

Feasibility Study for Soil Remediation

Solomon Hills Specific Plan Area

Santa Barbara County, California

August 27, 2025 **Project: 23-148**

Submitted to: **County of Santa Barbara Environmental Health Services**
225 Camino del Remedio
Santa Barbara, CA 93110

On Behalf of: **Solstra Communities California, LLC**
1555 Orcutt Hill Road
Orcutt, CA 93455

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Feasibility Study for Soil Remediation

Solomon Hills Specific Plan Area

Santa Barbara County, California

August 27, 2025 **Project: 23-148**

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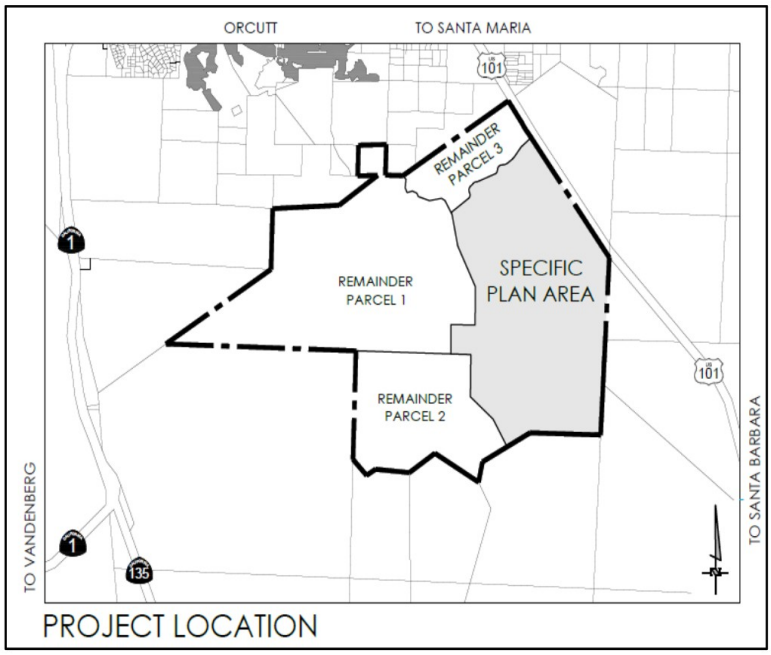
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A Excerpts from Previous Reports

1.0 Introduction

Waterstone Environmental, Inc. (Waterstone) has prepared this Feasibility Study (FS) on behalf of Solstra Communities California, LLC (Solstra) for the evaluation of alternatives for the remediation of soil impacted by historical oilfield exploration and production operations at the Solomon Hills Specific Plan Project property in Santa Barbara County, California (Subject Property).

Solstra owns the Subject Property which is 1,616 acres in size and includes additional offsite improvements related to roads, parks and basins, and is part of the larger Solstra-owned Solomon Hills Property that is approximately 4,195 acres inclusive of APN's 101-020-041, -043, -085, -086 and -087 (Solstra-owned Property) as shown on the figure below.



The development will include up to 4,000 residential units, schools, retail space and offices, a village center, and over 1,200 acres of open space and parks. Portions will also serve as habitat for protection of wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park. The development is proposed to be built in four distinct phases over a fourteen-year period. The balance of the Solstra-owned Property not being developed for the Solomon Hills Specific Plan will remain an active oil and gas operation owned by Solstra.

To prepare the site for redevelopment, oil and gas extraction activities within the Subject Property boundary will be permanently abandoned in phases prior to grading operations. This will include the abandonment of all active oil and gas wells and re-abandonment of non-active wells if required due to grading operations and removal of infrastructure including pipelines, equipment, tanks, and ancillary equipment. A significant portion of the eastern and northeastern

portions of the subject property are largely undeveloped and do not have any oilfield operations. Oil operations are concentrated partially in the western and mostly the southwestern portions of the Specific Plan boundary.

This FS will be used to update the Draft Remedial Action Plan (RAP) dated June 27, 2024 to be reviewed and approved by the County of Santa Barbara Environmental Health Services Site Mitigation Unit (EHS or SMU) to identify the appropriate remedial alternative. Solstra entered into a Remedial Action Agreement under EHS's Voluntary Remediation Oversight Program for regulatory oversight of site investigation and remediation activities in January 2025.

Pacific Coast Energy Company, LP (PCEC) is the current operator of the oilfield and is responsible for restoring the site to its original condition upon the abandonment of oilfield features in accordance with the Santa Barbara County Petroleum Code (Section 25-31). This includes the abandonment of oil wells and removal of infrastructure such as tanks and piping. PCEC will continue with active oilfield operations on the neighboring parcels to the west, where they operate a waste pile management facility for beneficial reuse of petroleum-impacted soils under General Waste Discharge Requirements Order No. R3-2020-0006.

A review of historical findings of previous studies related to the larger Solstra-owned Property and more recent studies specifically for the Subject Property were performed to develop a comprehensive list of site features and AOCs to be targeted for sampling within the Subject Property boundary of 1,616 acres. A significant amount of information or documents was found and included the following:

- 1991 Phase I Environmental Assessment of Orcutt Hill Oilfield prepared by Dahlgren Consulting Services
  (for Shell's Careaga Lease, approximately 200 acres within Careaga portion Specific Plan Area)
- 1995 Dames and Moore Phase I of Orcutt Hill Area
- 1995 ENSR Phase II
  (Newlove (west portion), Pinal, Hobbs, and Careaga Fees, 452 acres on Careaga portion of Specific Plan area)
- 2001 Harding ESE Phase I of Orcutt Hill Area
  (5,460 acres in Orcutt Hill Oilfield, 1,616 acres in Specific Plan area)
- 2004 Waterstone Phase I of Orcutt Hills Oilfield
  (over 10,000 acres in Orcutt Oilfield including Careaga and Newlove Fees, 1,616 acres in Specific Plan area)
- 2007 Waterstone Phase II of Orcutt Oilfield
  (4,195 acres in Orcutt Oilfield, 1,616 acres within Specific Plan Area)
- 2022 Waterstone Phase I of Careaga Lease
  (1,145 Acres total, southern 452 acres Careaga portion of Specific Plan Area)
- 2024 Waterstone Phase II of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)

- 2025 Waterstone Phase I of Solomon Hills Specific Plan (1,616 Acres and Offsites)

For this study only the portions related to the 1,616-acre Subject Property area, extracted from previous reports for the larger area, were utilized to focus information directly related to the Subject Property area, inclusive of areas where offsite improvements are proposed that require remediation or abandonments.

1.1 Scope and Purpose

Phase I and Phase II investigations performed over the last 30 years have investigated and identified concentrations of the following constituents in soil resulting from historical oil exploration and production activities at the Subject Property:

- Petroleum hydrocarbons, including volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs); and
- Metals.

Additional environmental investigation is proposed to investigate areas of concern (AOCs) identified at the Subject Property. To prepare for future redevelopment, oilfield operations will be shut down and the infrastructure re-used by Solstra oil operations. The results of this FS will be used to prepare a revised RAP and/or Corrective Action Plan (CAP) for the four development phases once the features have been further studied and the impacts to soil delineated.

Investigation and remediation of soil are proposed to proceed under the regulatory oversight of EHS for the purpose of obtaining site closure and ultimately a No Further Action letter on a feature-by-feature basis as outlined by EHS procedures.

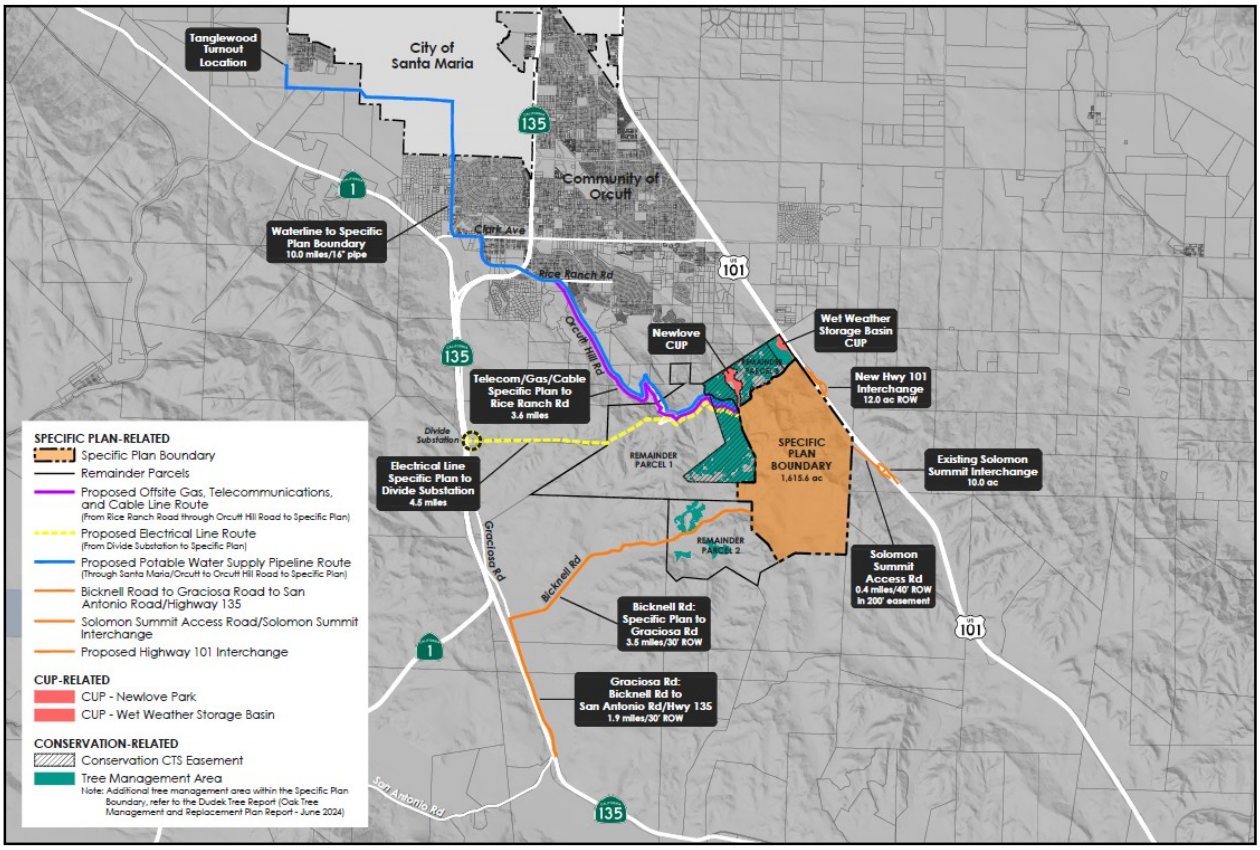
1.2 Subject Property Background and Proposed Use

The Subject Property is located adjacent to and west of Highway 101, south of Orcutt by 0.7 miles, east of Highway 135 by two miles and north of Los Alamos by six miles. It encompasses portions of three legal lots owned by Solstra including APN's 101-020-085, -086, and -087 totaling 1,616 acres (see Figures 1 and 2).

General information regarding the Subject Property, including the general site setting, history, current condition, and proposed site use, are summarized in the following sections.

The proposed development will include up to 4,000 residential units, schools, retail space and offices, a village center, and between 1,000 and 1,200 acres of open space and parks. Portions will also serve as habitat for protected wildlife and oak woodland. This will include trails, bike paths, and improvements to the existing Newlove Picnic Grounds as a private park. A conceptual site development plan is shown on Figure 3. The development design plan calls for cut and fill depths of up to 100 feet from existing grade, and casings for abandoned oil wells will need to be raised or lowered accordingly. Development is proposed to be conducted in four phases as

shown on Figure 4. The project description map is shown below. Earthwork quantities are expected to balance with no significant export or import of soil required.



Solomon Hills Project Description Map

1.2.1 General Subject Property Setting

The Subject Property comprises approximately 1,616 acres of undeveloped land used for oilfield operations and cattle grazing. It is bounded to the north by undeveloped land and oilfields operations, northeast by Highway 101, to the west by operating oilfield operations, and to the south by open space and ranchland.

The Subject Property is located in the Solomon Hills, which generally trend from east to west. The Subject Property is hilly and rugged. The elevation at the Subject Property varies from 1,346 feet above sea level on Mount Solomon to approximately 600 feet above sea level at the northern margin of the Subject Property. Graciosa Ridge extends from east to west in the northern portion of the Subject Property at an elevation of approximately 1,200 feet above sea level. Surface drainage flows generally to the south and west via Harris Canyon Creek, a tributary to San Antonio Creek, which flows to the Pacific Ocean.

The Subject Property has 33 active oil and gas wells, 23 plugged/abandoned wells, 2 idle wells, and 2 canceled wells. Five additional wells (1 active, 2 plugged/abandoned wells, and 2 idle) are considered to be offsite and part of access, basin or park improvements.

1.2.2 General Subject Property History

The Subject Property has been used for oil and gas production since the early 1900s and is also used for cattle grazing. The first commercial oil well in the Santa Maria District was constructed in 1901. Annual production increased to 3.7 million barrels (bbl) by 1920. Many wells were shut-in in the 1920s to maintain production in the reservoir. Secondary recovery processes such as gas injection and water flooding were used beginning in the 1950s. Output increased in the 1960s to 2.5 million bbl in 1967 (Harding ESE, 2001).

1.3 Geology

The Subject Property is located in the Solomon Hills, along the northern boundary of the Transverse Ranges geomorphic province, between the Santa Maria Valley and the San Antonio Valley. The Santa Maria Valley forms a northwest-southeast trending wedge that opens toward the Pacific Ocean and is bound by the San Rafael Mountains to the north and the Solomon and Casmalia Hills to the south.

The surficial sediments at the Subject Property are Recent and Plio-Pleistocene age stream alluvium underlain by the Paso Robles, Careaga and Sisquoc Formations. The Diatomite formation is a shallow zone approximately 100-900 feet bgs.

At depths ranging from 1,000 to 4,000 feet, the Foxen, Monterey, Point Sal, Lospe, and Knoxville Formations are present. The younger sediments, the alluvium, Paso Robles, and Careaga Formations are composed of unconsolidated to semi-consolidated sands, silts, and clays and are potential aquifers. The older formations, the Foxen, Sisquoc, Monterey, Point Sal, and Lospe Formations are generally composed of siltstones, claystones, and shales and are not potential aquifers (but some formations contain usable quantities of oil and gas).

The Monterey (a fractured dolomitic shale) and Point Sal (shallow marine turbidite sandstone) formations are highly productive, with oil recovery enhanced by waterflood injection.

Structurally, the sediments underlying the Subject Property are folded into a series of northwest trending anticlines and synclines, the most prominent of which is the Solomon Anticline, which forms the Orcutt Oilfield.

Additional information regarding soil conditions and seismic considerations are provided in an October 20, 2023 Geotechnical Report prepared by Allan E. Seward Engineering Geology, Inc.

1.4 Hydrogeology

The Subject Property overlies the fringes of the Santa Maria and San Antonio Groundwater Basins. The significant water bearing formations in the Santa Maria and San Antonio Basins are

the Paso Robles and Careaga Formations; the Orcutt Formation and the stream alluvium are too shallow and too low in permeability to yield significant quantities of water at the Subject Property. The Paso Robles Formation is composed of gravels, sand, silts and clays and is the primary aquifer in the Santa Maria Groundwater Basin. The Careaga Formation is composed of fine and coarse sands interbedded with clay and is the primary aquifer in the San Antonio Groundwater Basin.

The overall direction of groundwater flow in the Santa Maria Groundwater basin is to the northwest, although groundwater pumping results in locally anomalous flow directions. In the San Antonio Groundwater Basin, the predominant direction of groundwater flow under historical and present-day conditions was from the eastern uplands in the Solomon Hills to the west along San Antonio Creek to the discharge area in Barka Slough, and from the northern uplands in the Casmalia Hills south to San Antonio Creek (USGS, 2022). In 1976, the inferred groundwater flow direction at the Subject Property was toward the north-northwest in the northern portion of the property and to the south-southwest in the southern portion. The depth to first groundwater for the property was not identified, but sparse data held at the Santa Barbara County Water Agency indicated that groundwater levels in this area vary from 317 to 475 feet below ground surface.

The onsite water-bearing formations are not viable as sources of potable water. Groundwater quality varies widely within the basins, with total dissolved solids (TDS) ranging from 500 to 3,000 milligrams per liter. Groundwater TDS and nitrogen concentrations generally increase toward the west and also with distance away from the Santa Maria River, which is the primary recharge area.

On the Careaga Lease, perched groundwater can be found in the sands and alluvium in the canyon bottoms during rainy years (Harding ESE, 2001). North of the Subject Property, there is a fault and groundwater is closer to the surface to the north.

The geotechnical soils report notes that the highest depth of measured groundwater in Solomon Canyon just south of the Subject Property is 198 feet. Discontinuous perched groundwater and seeps were encountered at depths from 9 to 60 feet bgs in the alluvial canyons (Allan E. Seward Engineering Geology, Inc., 2023). No groundwater was encountered in environmental soil borings which were drilled to a maximum depth of 30 feet bgs.

2.0 Summary of Previous Investigations

Previous environmental studies were performed on the larger Solstra-owned Property and other Orcutt Oilfield parcels from 1991 through the present, but only the portions of those reports directly related to the current Subject Property boundary were utilized. These documents included the following:

- 1991 Phase I Environmental Assessment of Orcutt Hill Oilfield prepared by Dahlgren Consulting Services
  (for Shell's Careaga Lease, approximately 200 acres within Careaga portion Specific Plan Area)
- 1995 Dames and Moore Phase I of Orcutt Hill Area
- 1995 ENSR Phase II
  (Newlove (west portion), Pinal, Hobbs, and Careaga Fees, 452 acres on Careaga portion of Specific Plan area)
- 2001 Harding ESE Phase I of Orcutt Hill Area
  (5,460 acres in Orcutt Hill Oilfield, 1,616 acres in Specific Plan area)
- 2004 Waterstone Phase I of Orcutt Hills Oilfield
  (over 10,000 acres in Orcutt Oilfield including Careaga and Newlove Fees, 1,616 acres in Specific Plan area)
- 2007 Waterstone Phase II of Orcutt Oilfield
  (4,195 acres in Orcutt Oilfield, 1,616 acres within Specific Plan Area)
- 2022 Waterstone Phase I of Careaga Lease
  (1,145 Acres total, southern 452 acres Careaga portion of Specific Plan Area)
- 2024 Waterstone Phase II of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)
- 2025 Waterstone Phase I of Solomon Hills Specific Plan
  (1,616 Acres and Offsites)

Excerpts of Waterstone's Phase II reports from 2007 and 2024 which include testing of soils for hydrocarbons, VOCs, SVOCs, metals and PCBs are included in Appendix B. Copies of these reports are available on the State Water Resources Control Board's online GeoTracker portal (https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000022945).

Detailed site maps of the individual features and sample locations for these past studies will be provided to EHS, and these past sample locations and results will be considered in finalizing the sampling plan for those features.

2.1 Waterstone Phase II Investigation, 2006

In 2006, Waterstone performed a Phase II Site Characterization (reported in 2007) as part of a planned 7,500 home and 2 million square feet of commercial where the environmental conditions

on the entire Solstra-owned property of over 4,000 acres of the Orcutt Oil Field were evaluated under contract to BreitBurn Energy Co. (BreitBurn, the owner and oil operator in 2007). Within the 1,616-acre Subject Property boundary, Waterstone collected soil samples at approximately 25 locations adjacent to oil field features (oil wells, tank farms, sumps, etc.) and performed laboratory analyses on over 70 soil samples to test for the presence of crude oil and other oil production-related substances. This represented a focused sample test area where much of the oil operations occurred versus significant open space to the north and east portion of the property.

The purpose of the sampling was to evaluate environmental conditions and determine whether remedial action would be required as part of a redevelopment effort at that time.

At the time of Waterstone's sampling activity in 2006, the Subject Property was used for oil production and cattle grazing. There has been no historical use or storage of chemical compounds in the ravines or densely vegetated hills and canyons, and they were not investigated during the 2007 Phase II.

Improvements at the Subject Property and features identified on Figure 5 include oil wells with cellars, pipelines, buildings, storage areas and one aboveground tank, test sites, sumps, and former water tanks. The following previous reports were used by Waterstone to determine appropriate sampling locations for these features during the 2006 study:

- October 22, 2001, Harding ESE; *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.*
- September 6, 2004, Waterstone Environmental, Inc.; *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.*

No site development occurred after the 2007 study and oil production continued much as it has since the early 1900s. The **2007 Phase II included the analysis of 70 soil samples collected in a biased focused manner from** potential areas of concern based on the features shown on the map (Figure 5) that was generated by Harding ESE in its 2001 report. Sampling results are considered biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the Subject Property that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for oil exploration/ production or chemical use and storage.

The 2007 Phase II identification of sampling locations was based on the features shown on the map (Figure 5) that was generated by Harding ESE in its 2001 report. Waterstone and its subcontracted licensed surveyor (Land Development Consultants of Santa Ana, CA) performed three site visits in 2006 to mark locations and survey features from the Harding ESE map to identify locations for sampling activities. Sampling locations also targeted areas of oilfield operations where chemical compounds were known or suspected to have been used or stored in the past.

Two field sampling episodes were performed to evaluate the soil at AOCs as identified on Figure 5. Samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range)
- Volatile organic compounds (VOCs) by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Title 22 Metals by EPA Method 6000/7000 series

Seven of the 70 samples (10%) analyzed contained TPH concentrations exceeding San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for residential land use (430 ppm gasoline range, 260 ppm diesel range, 12,000 ppm oil range). These TPH thresholds are used as an initial screening to identify areas that may require additional study given the future residential receptor. The samples were located at a former dump site (D-2) on the Newlove Lease and at three oil wells on the Careaga lease (Wells #61, #63, and #78). The same samples also contained elevated concentrations of VOCs and SVOCs.

Most other samples had no detections of VOCs or SVOCs. Where detected, VOCs and SVOCs were commonly associated with elevated TPH as noted above. Metals concentrations were not detected at concentrations above residential screening levels or background levels.

Sampling results are considered biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the Subject Property that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for oil exploration/production or chemical use and storage.

2.2 Waterstone Phase II Investigation, 2024

In 2024, Waterstone performed an additional Phase II Investigation which included the collection and analysis of 65 soil samples and 10 soil vapor samples within the area of the current proposed Solomon Hills Specific Plan area to further evaluate areas of former and existing oilfield operations. The study targeted areas of oilfield operation on portions of the Newlove and Careaga leases that fall within the boundaries of the proposed Solomon Hills development where active oilfield operations occurred since the time of the 2006 Phase II investigation. Site features targeted for sampling included oil wells, pipelines, tank batteries, production/storage/processing facilities, and equipment storage areas.

The field sampling included 19 locations and focused on nine areas of concern from the 2006 Phase II and 10 new locations within the proposed primary residential development area in an effort to create a larger sample size and characterization of these areas. The locations are shown on Figure 6A and 6B.

Soil samples were collected to depths up to 30 feet below ground surface (bgs), typically in five-foot intervals beginning at 5 feet bgs. Shallower samples were collected at aboveground features like equipment storage areas and aboveground pipelines. Soil vapor probes were installed in 10 of the boreholes at depths ranging from 10 to 20 feet bgs.

Soil samples were selectively analyzed for the TPH – carbon chain identification by EPA Method 8015M, VOCs by EPA Method 5035/8260B, SVOCs or PAHs by EPA Method

8270C/SIM, Title 22 Metals by EPA Methods 6010B/7471A; and Polychlorinated Biphenyls (PCBs) by EPA Method 8082. Add-on analyses were performed to delineate the vertical extent of contamination or for other analytes such as metals or SVOCs where elevated concentrations of TPH were found, and solubility testing (by Waste Extraction Test [WET] and/or toxicity characteristic leaching procedure [TCLP] analyses) where concentrations exceeded rule of thumb thresholds for determination of hazardous waste. Soil vapor samples were analyzed for VOCs by EPA Method 8260B utilizing a mobile laboratory.

Soils encountered in the borings consisted primarily of silt with sand, fine to medium grained sand, and silty sand. Clay and gravels were observed in several borings. No groundwater was observed in any of the borings, drilled to a maximum depth of 30 feet bgs.

2.2.1 Soil Results

Laboratory results for soil samples are summarized in Tables 1 through 4, with only 10% of the samples recording concentrations above applicable residential screening levels

Where re-sampling of select site features previously reported in 2007 was performed, the results of the 2007 study were confirmed. This was the case for both features where impacts were found and for features where impacts were not found. This included six oil wells, two tank batteries, and one dump site. A comparison of the findings of the 2007 and 2024 Phase II studies is summarized in Table 6.

- Two of the 65 soil samples (3%), at two of 18 site features sampled (11%) analyzed for TPH exceeded the residential screening level for TPH-diesel range organics (DRO) of 260 milligrams per kilogram (mg/kg) (at CL-W-63 and CL-W-78).

- VOCs were detected in five of the 34 samples (15%) analyzed, at four of 18 site features sampled (22%), with concentrations exceeding residential screening levels in only one sample (CL-W-78-20).

- Of the 23 samples analyzed for metals, one sample (4%) or one of 18 features sampled (6%) (CL-W-60-10) contained arsenic slightly above published background concentration at 13 mg/kg, and one sample (CL-W-74-10) contained elevated cadmium at 56 mg/kg, but below the screening level. Sample CL-W-74-10 was additionally analyzed for WET/STLC and TCLP for cadmium, and the results were below hazardous waste thresholds.

- Detected SVOCs/PAHs exceeded residential screening levels in one of the 23 samples (4%), or one of 18 site features (6%) analyzed (CL-W-63-20). The detections generally correlated with those samples having elevated TPH concentrations.

SVOCs/PAHs were also evaluated by calculating benzo(a)pyrene-equivalents. There were no detections of cancer-causing PAHs, but in some cases the reporting limits were elevated due to high concentrations of petroleum hydrocarbons in the samples. For calculating the B(a)P-eq with non-detect results, the reporting limits were used as input values. Assigning these non-detect

reporting limit values as inputs, the B(a)P-eq results ranged from 602.5 to 31,330 ug/kg, exceeding the published background level (DTSC, 2009) of 900 ug/kg in 7 of 26 samples analyzed. It is noted again that no PAHs were detected in the samples, but they did contain elevated TPH. The B(a)P-eq can be used for simple screening purposes, but DTSC HERO (HHRA Note Number 4) no longer recommends calculating B(a)P-equivalent concentrations in screening-level risk evaluations to assess risk from carcinogenic PAHs since several of the toxicity criteria for individual PAHs are listed in the DTSC Toxicity Criteria Rule. Instead, HERO recommends evaluating PAHs individually using toxicity criteria that are consistent with the DTSC Toxicity Criteria Rule sections (§) 69021(a), (b), and (c).

In the two samples analyzed for PCBs, none were detected.

2.2.2 Soil Vapor Results

Soil vapor results are summarized in Table 5. In soil vapor, elevated concentrations of VOCs were detected in only three of 10 locations or three of nine features sampled; CL-W-63, CL-W-78, and CL-TH1. This is consistent with the soil results at CL-W-63 and CL-W-78 where elevated concentrations of petroleum hydrocarbons were also detected, but no VOCs were detected in soil at boring CL-TH1. The soil vapor sample locations were biased as discussed herein and targeted known areas of concern.

The soil vapor results were evaluated for potential vapor intrusion into future buildings using attenuation factors of 0.03 (CalEPA, 2023) and 0.001 (CalEPA, 2011). Many in the regulated community view the 0.03 AF as unreasonable and not supported by data representative of conditions in California. At best the AF should be considered as an overly conservative screening value that triggers the need for additional consideration, including investigation, remedial action, and/or no further action. The 0.03 AF in the 2023 Supplemental Guidance relies on an outdated environmental data set collected predominantly from east coast and Midwest properties with colder climates, coarse soil conditions, subterranean building designs with basements and open foundations, and average building ages exceeding 80 years, all factors that increase the rate of vapor intrusion. Most of the data set was developed from studies performed at residential buildings. The Guidance does not consider published California-based data collected by the DTSC and other investigators that better reflect vapor intrusion potential at California sites.

The theoretical indoor air concentrations were compared against published agency standards including Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Note 3 Commercial Screening Levels (“DTSC-SLs”) dated April 2025, San Francisco Bay RWQCB ESLs dated 2019, and United States Environmental Protection Agency (USEPA) Commercial Regional Screening Levels (RSLs) dated November 2024.

3.0 Summary of Results and Quantity Estimates

During the 2007 and 2024 Phase II investigations, 135 soil samples were collected from 28 site features in the main development area to provide a representative sample of AOCs such that the results could be extrapolated to similar site features (oil wells, tank batteries, pipelines, former dump sites, and equipment storage areas) and to the remainder of the property in order to estimate the number of areas that may have soil impacts and develop estimates of soil volumes requiring remediation. Given the duplication of site feature characteristics (for example oil wells have similar contaminant release potential and characteristics), with sampling performed at 63% of the active wells. As part of the 2024 and 2025 analysis Waterstone's analysis included significant research analyzing historical maps, field interviews, physical site reconnaissance as well as the Phase II investigations.

Elevated concentrations of TPH, VOCs, and/or SVOCs were identified at 3 oil wells, one dump site, and one test header/pipeline area. Elevated arsenic was found at one well site.

A new Phase I Environmental Site Assessment (ESA) (provided to EHS under separate cover) was recently completed to update the findings of previous studies performed from 1991 through 2024 and to identify all potential features or AOCs within the Subject Property boundaries that may require evaluation as part of the completion of the remedial action plan or CAP. An index of Areas of Concern is included in Table 7 (by Grading phase) and Table 8 (Site-wide summary).

Based on the findings of the seven historical environmental reports, field visual site reconnaissance, historical oil operation maps, diagrams and reports, interviews and results of current Phase I and Phase II investigations performed, and our professional judgement, we estimate that soil impacts requiring remediation are present at the following number of site features:

Estimated Volumes for Remediation

Item/Feature	Est. Qty.	Units of Measure	Assumed Basis	Assumed Size L x W x H (ft)	Ea. (cy)	Subtotal (cy)	Tons
Wells/ Well Pads	65	ea	25%	Conical 20' radius, 12' deep	186	3,024	4,536
Sumps	17	ea	at 25% of Well Sites	25' x 25' x 7'	162	2,755	4,132
Tank Batteries	3	ea		50' x 40' x 5'	370	1,111	1,667
Pipes	55,500	lf	5%	5' wide x 5' deep	0.93	2,569	3,854
Asphalt/Oiled Roads	86,700	sf	4 inches thick	0.33	1,070	1,070	2,141
Other Facilities	20	ea		20' x 20' x 5'	74	1,481	2,222
Former Dump D-2	1	ea		25' x 25' x 10'	231	231	347
				Subtotal		12,242	18,899
				Contingency	20%	2,448	3,780
Conversion Factor	Soil	1.5	tons/cy	**Grand Total**		**14,691**	**22,678**
	Asphalt	2	tons/cy				

As part of preparation for future grading operations and in accordance with County Policy a comprehensive phased supplemental Phase II site investigation will be performed prior to grading each phase to investigate site features and areas of concern located in each grading phase, to be followed by the delineation of any soil impacts that are identified and remediation according to an approved RAP and/or CAP. Additional investigation and a proposed sampling plan are detailed in *Waterstone's Workplan for Supplemental Site Investigation* dated August 15, 2025 which will be submitted to County of Santa Barbara EHS for review and approval. Areas found to have elevated concentrations of TPH, VOCs, and metals will be identified for remediation to be outlined in a revised Remedial Action Plan (RAP) to be submitted to EHS for approval.

4.0 Conceptual Site Model

This CSM provides information regarding the nature and extent of chemical compounds on the Subject Property, how and where contaminants are expected to move, and identifies exposure pathways and potential receptors. A flowchart of source areas, migration pathways, and exposure pathways is shown on Figure 7. The CSM is considered an evolving model and will be updated as additional data is generated.

4.1 Nature and Extent of Contamination

4.1.1 Known and Potential Source Areas

Oil and gas exploration and production-related activities have been conducted at the Subject Property since the early 1900s. These activities have resulted in impacts to the shallow soil with concentrations of petroleum hydrocarbons and other compounds.

The sources of impacts to soil include oil wells (wellhead releases/leaks, cellars, surface leaks), sumps (unlined with historical discharge of produced water, drilling fluids, and sludges), tank batteries (spills/leaks/overflows from storage tanks and associated piping), pipelines (leaks from aging aboveground/underground lines), and historical dump sites. Other potential sources include gathering areas, gas scrubbers and separators, and equipment storage yards.

4.1.2 Contaminants of Concern

The principal chemicals or contaminants of concern (COCs) based on knowledge of historical and existing site operations and results of onsite testing performed to date include:

- Total Petroleum Hydrocarbons (TPH):
    - TPH-gasoline (TPHg)
    - TPH-diesel (TPHd)
    - TPH-motor oil (TPHmo)
- VOCs, including benzene, toluene, ethylbenzene, and xylenes (BTEX)
- Semi-Volatile Organic Compounds (SVOCs), or Polycyclic Aromatic Hydrocarbons (PAHs)
- Metals (e.g., barium, arsenic in former sump areas, mercury from historic gauges/switches, lead from lead-based paint at former tank batteries and former structures, and cadmium).

4.1.3 Affected Media

- Soil: Contamination identified at surface and subsurface (typically shallow depths of 0–20 feet bgs).
- Soil Vapor: Previous testing has identified impacts to soil vapor by petroleum VOCs such as BTEX at well sites and areas of piping at 10-20 feet bgs. However, impacts to soil vapor in this setting are nearly always co-located with impacts to soil.
- Groundwater: Groundwater is not expected to be a medium of concern. On the Careaga Lease, perched groundwater can be found in the sands and alluvium in the canyon

bottoms during rainy years (Harding ESE, 2001). North of the Subject Property, there is a fault and groundwater is closer to the surface to the north. The geotechnical soils report notes that the highest depth of measured groundwater in Solomon Canyon just south of the Subject Property is 198 feet. Discontinuous perched groundwater and seeps were encountered at depths from 9 to 60 feet bgs in the alluvial canyons (Allan E. Seward Engineering Geology, Inc., 2023). No groundwater was encountered in environmental soil borings drilled to a maximum depth of 30 feet bgs.

4.1.4 Extent of Impacts

Investigations performed to date indicate localized but elevated concentrations of petroleum hydrocarbon concentrations, including VOCs, PAHs, and metals in soils around:

- Oil wells
- Pipeline corridors
- Historic dump sites

Additional investigation will be performed in a phased approach to coincide with grading phases where impacts have been identified to further delineate the extent, but based on the nature of the releases would be expected to be generally localized in the immediate area of oilfield operations and features. Note that much of the property is comprised of vacant undeveloped land with no history of oilfield operations.

Results of investigations performed to date indicate the presence of impacts to soil at a relatively small percentage of AOCs.

4.2 Potential Migration Pathways

This section outlines the potential migration pathways that chemicals may travel from their release point at the various sources through the subsurface media (soil, soil vapor, and groundwater) to reach human receptors at the surface.

Petroleum hydrocarbon contamination at the Subject Property has several potential and confirmed migration mechanisms based on the site conditions, geology, and contaminant characteristics. Contaminants will migrate downward vertically through the soil based on the magnitude of the release, the soil type, soil porosity, moisture, and depth to water. There may be potential to reach underlying groundwater if it is present at shallow depths, but this is not likely nor anticipated. Lateral spreading or migration through the soil may occur along fine-grained clay or silt layers, especially if perched water or capillary zones are present. This is influenced by the subsurface stratigraphy and moisture gradients.

Surface runoff and erosion may cause contaminant transport via stormwater runoff or wind-blown dust. This risk is reduced by the existing topography and absence of nearby sensitive surface water bodies.

Contaminants due to infiltrating rainwater, followed by percolation to groundwater are unlikely to leach to groundwater given the depth to groundwater, permeability of soil strata, contaminant

mass, and precipitation recharge rate. In addition, the onsite water-bearing formations are not viable as sources of potable water. Groundwater has not been the subject of investigations performed to date. It has not been encountered during any of the investigations performed to date and is not expected to be a medium of concern or a transport mechanism.

Volatilization of VOCs as soil gas may migrate towards the surface through the vadose zone soils or via preferential pathways/conduits (e.g., utility trenches) and present a risk of vapor intrusion into structures at the surface. No occupied structures currently exist but will be present after development occurs.

Contaminants may follow utility corridors or bedding material (e.g., old pipelines, well conduits) acting as preferential pathways.

4.3 Potential Exposure Pathways

The soil contact exposure pathway is considered complete when the site receptors including oilfield workers, visitors, site users, or construction/utility and/or remediation workers could potentially come into contact with, inhale vapors, or ingest dust from impacted soils. This includes near-surface impacted soil or soil at depth that could be contacted by site receptors that perform work including excavation or moving of soil.

Most site receptors will not come into contact with subsurface soils that might be impacted; however, construction/utility and/or remediation workers could potentially contact these soils if excavation is performed in the area where soil impacts exist.

The surface water exposure pathway is considered when impacted surface water, including storm water runoff, is or may be present. There are no nearby surface water bodies that would serve as an exposure pathway at the Subject Property. Implementation of standard best management practices for storm water runoff during any future excavation or stockpiling activities should prevent impacts by COCs at the Subject Property. Thus, the direct exposure pathway for impacted surface water is considered incomplete for users and construction/utility and/or remediation workers at the Subject Property.

The vapor intrusion pathway is considered when there is a potential for the accumulation and inhalation of VOCs in indoor air or potential exposure to VOCs through inhalation of outdoor air. The vapor intrusion pathway from impacted soil and/or groundwater to indoor or outdoor air is potentially complete where volatile contaminants are present in soil beneath a structure which is or may be occupied, or beneath a future structure. Air impacts relating to human exposure typically only consider indoor air intrusion. Elevated vapor phase concentrations of VOCs may be transported within the vadose zone and could migrate upward to the surface and enter the interior space of future buildings at the Subject Property. The potential vapor intrusion pathway on the Subject Property will be evaluated by soil vapor testing.

The groundwater pathway is considered when impacted groundwater is present. There is no current or proposed future use of groundwater as a drinking water supply beneath the Subject Property. For this reason, this CSM does not currently consider exposure to groundwater a

potential pathway; however, the CSM will be updated as additional data is obtained and evaluated. Regarding the inhalation pathway, any potential off-gassing from groundwater is represented by the numerous soil vapor samples collected. Regarding the dermal contact pathway, because the depth to groundwater is greater than would typically be excavated for construction/utility and/or remediation work, the direct exposure pathway for impacted groundwater is considered unlikely for construction/utility and/or remediation workers.

4.4 Potentially Complete Pathways

The potential human exposure to residual COCs that are present in soil and soil vapor, indoor air in future buildings, groundwater, or surface water is evaluated based on both the current and potential future uses of the Subject Property that define the site receptors. The site receptors for the COCs present at the Subject Property include on-site workers, construction/utility workers, and site visitors.

Future development of the Subject Property will include extensive grading with cuts and fills of up to 100 feet, resulting in major changes to the configuration of the Subject Property over four phases and 14 years. This will likely eliminate or dramatically decrease the likelihood of exposures to future occupants unless contaminated soil is inadvertently placed near final grade during site grading. But this is unlikely since remediation will have already been completed and site features closed by EHS prior to initiating grading operations, and grading will be performed under the implementation of a Soil Management Plan. This site configuration results in an incomplete pathway for COCs to reach site receptors via ingestion and dermal contact with soil for occupants and users, as shown on Figure 7.

Construction/utility workers could potentially come in contact with impacted soils, indicating dermal contact may be a complete pathway for these site receptors if excavation is performed in the area where impacts exist. Since the property will be used for residential purposes with future residences to be constructed, the only potentially complete pathways for exposure to COCs for all site receptors is indoor air in future buildings.

4.5 Receptors

Under the existing site use and configuration, receptors that may be exposed to COCs at the Subject Property and on adjacent offsite properties are workers, construction workers, and site visitors. The property is currently fenced and not accessible to the general public.

Under future site usage as a residential development, receptors that may be exposed to COCs present at the Subject Property include future residents, students, workers, and construction/utility workers. But this exposure would be under a post-remediation post-closure scenario where soil impacts have been remediated to the satisfaction of the overseeing regulatory agency. Potential receptors on adjoining offsite properties would still be oilfield workers, construction workers, and site visitors. Surrounding properties are primarily active oilfield facilities and undeveloped land.

Site receptors are not expected to experience any direct contact exposure to groundwater or surface water. Future site receptors may be exposed to COCs in the underlying soil gas that enters the indoor air at the Subject Property from cracks or porosity in slab-on-grade structures. Construction/utility and/or remediation workers may also be exposed to COCs in the underlying soil gas during subsurface utility access or excavation activities.

If warranted, future development may include additional measures for vapor intrusion mitigation.

4.6 Data Gaps and Proposed Work

A significant representative sample size from the previous studies in 2007 and 2024 which included the analysis of more than 130 samples covering approximately 30% of the oil wells on the Subject Property (primarily in the proposed main residential development area), soil impacts were identified at 3 of 21 wells (less than 15% of the sample population), one pipeline area, and one historical dump site.

Current data gaps include the complete assessment of all site features to evaluate the soil for impacts from oilfield operations and the complete delineation of any identified impacts. This workplan proposes to perform additional sampling at all identified site features once the Solomon Hills development Project is approved, to be followed by the delineation of impacts that are identified, and leading to the submittal of a revised RAP.

5.0 Cleanup Goals and ARARs

Based upon the results of the CSM, this section outlines the proposed cleanup goals for soil impacted by concentrations of TPH, VOCs, and metals resulting from historical site operations.

5.1 Remedial Action Objectives

Remedial action objectives (RAOs) are narrative descriptions of the overall goal of a planned remediation program. RAOs are generally based on the results of site investigations that delineate the nature and extent of subsurface contamination, toxicity of chemicals of concern, potential exposure pathways and the expected future land use (i.e., residential or commercial) of the site.

Remedial Action Objectives for Soil:

- Commercial Use: Remediate soil with concentrations that could result in an incremental lifetime cancer risk (ILCR) greater than a risk range of 1 in 1,000,000 (10^{-6}) to 1 in 1,000,000 (10^{-4}), in line with USEPA risk management guidance; and mitigate exposures to soils with concentrations resulting in a non-cancer hazard index greater than 1.
- Residential Use: Remediate soil with concentrations that could result in an ILCR greater than a 1 in 1,000,000 (10^{-6}); and mitigate exposures to soils with concentrations resulting in a non-cancer hazard index greater than 1.
-

It is important to note that the grading plan calls for cuts and fills of up to 100 feet, resulting in potentially impacted soil either being removed under the framework of a Soils Management Plan (SMP) or covered (capped) by significant thickness of fill soil. This capping or excavation will reduce the exposure pathways for onsite receptors when evaluating risk.

5.2 Applicable or Relevant and Appropriate Requirements (ARARs)

In addition to evaluating the technical aspects of various options for their suitability as potential remedial action alternatives, applicable or relevant and appropriate requirements (ARARs) must be reviewed to determine whether the options meet the environmental requirements. ARARs are developed under the CERCLA process guidance and the proposed remedy must comply with ARARs. In this section, select ARARs for the proposed remedy are identified and evaluated.

ARARs are federal, state, or local environmental standards that must be considered when selecting and implementing response actions at hazardous waste sites under CERCLA-like or state-led programs (e.g., EHS, RWQCB, DTSC oversight). They are used to ensure that any removal or remedial action is protective of human health and the environment and complies with legal requirements.

5.2.1 Overview of ARARs

Identification of ARARs is a site-specific determination involving a two-part analysis: first, a determination of whether a given requirement is applicable; then if it is not applicable, whether it is relevant and appropriate. Applicable requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address the situation at a particular site. The requirement is applicable if the jurisdictional prerequisites of the standard show a direct correspondence when objectively compared to the conditions at the Site. If the requirement is not legally applicable, then the requirement is evaluated to determine whether it is relevant and appropriate. Relevant and appropriate requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that, while not applicable, address problems or situations sufficiently similar to the circumstances of the proposed response action and are well suited to the conditions of a site (USEPA, 1988). A requirement must be substantive in order to constitute an ARAR for activities conducted on-Site. Procedural or administrative requirements, such as permits, and reporting requirements, are not ARARs (55 Fed. Reg. 8666, 8745 [1990]). ARARs are promulgated or legally enforceable federal and state requirements.

5.2.2 California Environmental Quality Act

CEQA requires the lead agency to disclose to other public agencies and the general public any significant environmental effects of a proposed project. It is an administrative procedure to ensure comprehensive environmental review of cumulative impacts prior to project approval. It has no agency enforcement tool but allows challenges in courts.

CEQA applies to all discretionary activities proposed to be conducted or approved by California public agencies, unless an exemption applies. Solstra entered into a Remedial Action Agreement under EHS's Voluntary Remediation Oversight Program for regulatory oversight of site investigation and remediation activities in January 2025. Therefore, the proposed remedial action at the Subject Property will be a CEQA project and EHS and the County of Santa Barbara will be the lead agency for CEQA compliance. Solstra is the responsible party for compliance with CEQA requirements at the Subject Property.

The proposed remedial project is not expected to have a significant effect on public health or the environment because its overall outcome will result in a net reduction of chemical impact to the environment due to the controlled manner in which contaminated media will be removed and the future grading of the site which will minimize exposure pathways. The outcome will also result in compliance with the RAOs.

5.2.3 Public Participation

The objective of the public participation program is to inform the community of proposed remedial actions and effectively respond to concerns and questions. The public participation program will be a coordinated effort between the Solstra and the County of Santa Barbara. Objectives of the public participation program include:

- Gathering input from the community on concerns about remedial activities;
- Establishing effective channels of communication between the community, Solstra and the County of Santa Barbara;
- Informing the community about progress of the remedial activities; and
- Providing adequate opportunities for the community to participate in the decision-making process.

In fulfillment of their oversight role, the County of Santa Barbara will review report documents to ensure they meet regulatory requirements. A County of Santa Barbara Public Participation Specialist (PPS) will work with Solstra to plan public participation activities and will provide input and oversight to fulfill County of Santa Barbara requirements. The County of Santa Barbara EHS serves as the community contact for the Subject Property.

Public participation activities associated with future remediation will include the preparation and distribution of a community survey letter, a public comment period, a community notice, and establishment of local repositories of information.

A future RAP/CAP and all related technical documents will be placed in the local information repositories and will be posted to the GeoTracker website. Once the public comment period ends, EHS will respond in writing to all public comments in a Response to Comments (RTC) document that will be mailed to all individuals who submitted a comment. Further, EHS staff will be available to respond to community phone calls and email communication as related to the RTC.

The RAP will be revised, as necessary, to address comments received. If significant changes to the RAP are required, it will be revised and resubmitted to EHS for public review and comment. If significant changes are not required to the RAP, it will be modified, as necessary, and EHS will approve the modified RAP for implementation.

5.2.4 Health and Safety Plan

Health and Safety Code 1910.20 governs worker health and safety at environmental remediation sites. To comply with Health and Safety Code 1910.20, a Site Health and Safety Plan (HASP) will be prepared following EHS approval of selected remedial alternatives. The HASP identifies and describes potentially hazardous substances that may be encountered during remedial activities and includes procedures for worker health and safety monitoring for COCs in dust generated during remediation activities. The HASP also prescribes the appropriate personal protective equipment for site conditions and activities and lists procedures to undertake in the event of an emergency. Field personnel will review the HASP prior to field work. Site safety

briefings will be conducted daily prior to starting field work to identify potential physical and chemical hazards and to review emergency procedures. Personnel onsite will be briefed, given the opportunity to review the HASP, and required to sign the HASP.

5.2.5 Waste Evaluation and Management

A federal hazardous waste is defined in Code of Federal Regulations Title 40 §261.3. In general, a solid waste is a hazardous waste if it is a:

- Listed waste: it is, or contains, a hazardous waste listed in Subpart D of Part 261, or
- Characteristic waste: the waste exhibits any of the characteristics defined in Subpart C of Part 261.

The characteristics of a California hazardous waste are defined by the California Code of Regulations (CCR) Title 22, Article 3, §66261.20 through §66261.24. In general, the federal and state criteria are similar; however, the State of California toxicity characteristic not only incorporates the federal criteria but also provides Total and Soluble Threshold Limit Concentration (TTLC and STLC, respectively) criteria for selected organic and inorganic compounds. In addition, the California toxicity characteristic provides for acute oral, dermal, inhalation, and aquatic LC_{50} (toxicity) criteria.

Based on site data and known historical activities at the Subject Property, none of the wastes to be generated during removal activities are expected to be classified as a federal hazardous waste under the Resource Conservation and Recovery Act (RCRA Hazardous), but could be a State hazardous waste (non-RCRA or Cal-Hazardous) based on the CCR Title 22 for metals.

Prior to disposal, all excavated soil will be stockpiled, and composite samples will be collected for waste profiling. The results will be reviewed and the soil approved for acceptance at the receiving facility before arrangements are made for transport. If it is determined through profiling sampling that any of the soil generated is a hazardous waste, proper labeling, handling, transport, and disposal requirements will be followed.

5.2.6 Sampling and Transportation

Where excavation activities occur, generated waste soil will be profiled for disposal in accordance with receiving facility requirements and procedures outlined above, as applicable. Sampling plans will be developed to document waste profiling activities for waste soils. Sampling plans will consider prior sampling data, including pre-remedial confirmation soil sample results, which have been collected from each potential excavation area to be outlined in the RAP.

The current expectation of transportation during implementation of excavation activities includes trucking of waste soil to the waste pile management facility on the neighboring PCEC oilfield operating area, and appropriate designated disposal facilities. Transportation of vehicles and equipment to implement the recommended alternative will follow existing rights-of way, traffic patterns, and traffic laws.

5.2.7 County of Santa Barbara Air Pollution Control District

The County of Santa Barbara Air Pollution Control District (APCD) governs air emissions within the County of Santa Barbara. APCD rules may apply if excavation or soil vapor extraction (SVE) activities occur as part of the chosen remedial alternative. Excavation activities will be performed in accordance with APCD permit requirements, as applicable.

APCD rules that could apply to future remediation work may include Rule 303 (Nuisance related to air contaminants), APCD's Soil Excavation Permit Application Form -07C, and appropriate notifications and monitoring. APCD may also require the preparation and submittal of an Air Quality Monitoring Plan (AQMP).

APCD permits such as Authority to Construct (ATC) and Permit to Operate (PTO) are required for operation of a soil vapor extraction (SVE) unit equipped with granular activated carbon scrubbers.

5.2.8 Federal and California Water Quality Regulations

The purpose of the Federal Clean Water Act (33 U.S.C. § 1251) is to restore and maintain the chemical, physical, and biological integrity of the Nations waters. The California Porter-Cologne Water Quality Control Act (Water Code § 13000) further protects the quality of all waters of the state of California for the use and enjoyment by the people of the state. It further regulates the activities and factors which may affect the quality of the waters of the State to attain the highest water quality that is reasonable.

The Regional Water Board sets cleanup goals based on *the Statement of Policy with Respect to Maintaining High Quality of Waters in California* (Antidegradation Policy) as set forth in State Water Board Resolution No 68-16 and *Policies and Procedures For Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304* as set forth in State Water Board Resolution No. 92-49. Under the Antidegradation Policy, whenever the existing quality of water is better than that needed to protect present and potential beneficial uses, such existing quality must be maintained. Where some level of degradation is justified, water quality may not be degraded below that necessary to protect beneficial uses.

5.2.9 Local Regulatory Requirements

The County of Santa Barbara will be contacted to determine the procedures for filing a grading permit for the earth moving activities described herein. A traffic plan will be filed, if required, as part of the grading permit for the project.

5.3 Remedial Goals

Remedial goals, a subset of RAOs, consist of levels of risk or chemical concentrations that are protective of human health or the environment or within background. Remedial goals are often used at sites to guide remedies that are selected to reduce chemical concentrations to levels that

pose acceptable incremental cancer risks or noncancer hazards or are within background. Site-specific RGs for soil are developed considering human health exposure pathways (i.e., risk-based RGs) and background concentrations, and are based on commercial and industrial human health exposure scenarios. There may be limitations in achieving certain goals based on what is considered to be technologically and economically feasible.

To achieve the RAOs for the Subject Property, site-specific RGs were identified for residential and commercial human health exposure scenarios, as presented in the table below. RGs were calculated based on Subject Property data, and potential human health exposure scenarios for future residents and workers. The Subject Property is currently vacant but will be developed with a residential community and will include commercial uses as well, presuming the necessary approvals are issued by the County of Santa Barbara.

The RGs are based in part on the assumption that impacted soils are readily accessible in terms of exposure on a daily basis to all residents, workers, and visitors. However, after redevelopment, the Subject Property grade will be significantly raised and lowered. If soils with concentrations above the remedial goals are not removed in all areas, mitigation and prevention of exposure may be achieved by managing them in place with administrative controls such as a land use covenant and a Soils Management Plan (SMP).

Residential soil screening levels published by State of California regulatory agencies are proposed as initial remedial goals for the purpose of identifying areas to be considered for remediation. These screening levels are conservative values which take into consideration the risk to human health posed by direct exposure. These included one or more of the following as described previously:

- DTSC HERO HHRA Note 3, DTSC-modified Screening Levels, revised April 2025.
- U.S. EPA RSLs, May 2024.
- ESLs published by the SFRWQCB, 2019.

Soil Remedial Goals (mg/kg)

Compound	Residential	Commercial
TPH-g	430	2,000
TPH-d	260	1,200
TPH-o	12,000	180,000
Benzene	0.33	1.4
Toluene	1,100	5,300
Ethylbenzene	5.9	260
Xylenes	580	2,500
Naphthalene	2.0	7.6
Arsenic	12	12
Lead	80	320
Mercury	0.67	2.9

Should confirmation samples exceed these screening levels, additional removals will be considered. Alternatively, further evaluation may be performed in the form of site-specific health

risk calculations or human health screening evaluation using the published screening levels noted above. Such risk calculations would follow DTSC Preliminary Endangerment Assessment (PEA) Guidance Manual protocols, and will consider the future site development (e.g., paved surfaces) and expected use restrictions.

6.0 Identification and Screening of Remedial Alternatives

This section outlines remedial alternatives considered for the Subject Property to address concentrations of TPH, VOCs, and metals, in shallow soil and prepare the site for the Solomon Hills development.

The remedial alternatives described below were selected based on EPA guidance and professional experience. These alternatives were then screened in general accordance with EPA's nine standard evaluation criteria (USEPA, 1988) to evaluate the relative effectiveness of each remedial alternative compared to its costs and/or limitations at this site in treating the soil. EPA guidance specifies that priority should be given to alternatives that achieve a tangible decrease in the toxicity, mobility, and/or volume of contaminants, thus providing permanent protection to human health and the environment. Based on this screening protocol, the preferred remedial alternative is selected, as described below.

The remedial alternatives considered for shallow soil cleanup were as follows:

- No Action refers to a scenario in which no active remedial measures are implemented per the National Contingency Plan ("NCP") as a basis against which the other alternatives are compared.
- Capping and Institutional Controls consist of precluding potential exposure pathways through engineering or administrative methods (such as zoning ordinances or deed restrictions/use limitations).
- Excavation and Landfarming consists of the removal of shallow soil impacted with COCs and placing it in layers over a prepared treatment area and periodically tilling it to stimulate aerobic microbial degradation of organic contaminants, primarily petroleum hydrocarbons.
- Soil Vapor Extraction (SVE) is an in-situ remediation technology used to remove volatile and some semi-volatile organic contaminants from the vadose zone by applying a vacuum to the subsurface. It is particularly effective for treating volatile petroleum hydrocarbons such as TPHg and VOCs such as benzene, toluene, ethylbenzene, and xylenes.
- Excavation and offsite disposal consist of the removal of shallow soil impacted with COCs. The removed soil is then transported offsite for management elsewhere on the adjacent oil lease or to a landfill, as appropriate.
- In-situ chemical oxidation (ISCO) involves injecting strong oxidants directly into subsurface soil to destroy petroleum hydrocarbons, BTEX, diesel constituents, fuel oxygenates, and similar VOCs by breaking them down into CO_2, water, and benign salts.

6.1 Alternatives

6.1.1 No Action

Under this hypothetical remedial alternative, no action would be taken to address COCs in soil. No remediation, soil testing, monitoring, engineering, or institutional controls would be implemented. The inclusion and evaluation of the No Action alternative is required by the NCP to serve as a baseline against which the performance of other alternatives is evaluated.

Based on the recent concentrations of COCs identified in soil, along with EHS comments regarding the impacts at the site, the no action alternative is not a viable remedial option for the site. The no action alternative does not demonstrate achievement of the remedial objectives for the Subject Property. Therefore, the no action alternative was not considered further.

6.1.2 Containment and Institutional Controls

This alternative would employ institutional controls, likely including a land use covenant (LUC), and capping. This alternative would consist of placing an impervious cap of asphalt or concrete over areas of contamination, but not necessarily physical removals of the soil, to ensure future occupants do not make dermal or other contact with the soil contamination. Under this remedial alternative, not all soil impacts would be removed, and some would be left in place in select areas. Since much of the soil will need to be moved to grade the site, it might need to be relocated and buried in a particular part of the Subject Property, such as in a deep fill area, and capped at the surface.

As discussed with EHS and noted in EHS's May 25, 2025 comments, the proposal to bury impacted soil on site at depth would require approvals from multiple agencies and may not be a viable as the sole remedial alternative. However, it will be retained as an alternative to consider that may be utilized in select areas or in combination with other alternatives. If approved, such areas may require future monitoring to verify that contaminants are not migrating and that occupants and users remain protected. The approval process may be onerous nor is its approval guaranteed. Costs for this alternative are estimated to be relatively inexpensive presuming the areas would be developed with streets and parking areas.

6.1.3 Excavation and Landfarming (Bioremediation)

This remediation approach combines targeted excavation of hydrocarbon-impacted soil with ex-situ landfarming bioremediation. The method is effective for treating light to mid-weight TPH commonly associated with historical oilfield activities. Petroleum-impacted soils exceeding cleanup goals are removed by excavation and the hydrocarbon compounds are biologically degraded to reduce toxicity and mobility.

A treatment cell is constructed in a centralized area and lined with low permeability clay or HDPE membrane, surrounded with berms and stormwater runoff controls. Soils are spread in thin lifts of 6–12 inches to maximize oxygen transfer, and amendments and nutrients are added, and pH adjusted using lime or sulfur. The soil is regularly tilled to introduce oxygen and

stimulate microbial activity. Confirmation sampling is performed to ensure the soil meets the criteria for onsite reuse. Permits and approvals may be needed from EHS, the RWQCB, and SBAPCD.

6.1.4 Soil Vapor Extraction

Soil vapor extraction (SVE) is a common technology used successfully to remove VOCs from soil and soil vapor including the COCs present at the site. During SVE, extraction wells are installed into the impacted soils and a vacuum is applied to the wells from a vapor extraction system where the vapors are treated with granular activated carbon prior to discharge of the air under permits from APCD.

The costs to install and operate such a system for a period of approximately 1.5-3 years would be very high due to the nature of the contaminants (heavier molecules not as responsive to SVE), the shallow depths at which they occur, and the wide distance/spacing of the AOCs, and not considered practical for the Subject Property.

6.1.5 Excavation and Offsite Disposal

Excavation involves physically removing COC-impacted soil and replacing it with clean soil. Confirmation samples are collected to ensure removals have been effective in removing the soil impacts and the risk posed by residual concentrations is evaluated and confirmed to be acceptable. The excavated soil is then transported offsite to one of two types of facilities:

1) The Waste Pile Management Facility operated by PCEC on the neighboring portion of the PCEC Newlove Lease where oilfield operations will continue, located approximately 2 miles to the west. Here the soils are managed in accordance with the beneficial reuse program in accordance with the General WDR permit 2020-006 and used to build containment berms, recontour well pads, repair roads, etc.; or

2) A licensed and permitted waste disposal landfill facility. Preference is given to those facilities that are closest provided that the results of analytical profiling comply with the facility's acceptance criteria. It is expected that most of the soil will be non-hazardous and acceptable to most of the non-hazardous landfills in southern California. There may be some small quantities of hazardous soil that require transport to a hazardous waste facility. Facilities considered for offsite disposal include:
    a. Santa Maria Regional Landfill – (non-haz soil). The facility's non-hazardous hydrocarbon-impacted soils (NHIS) program has been temporarily suspended, but is expected to resume next year - 13 miles from the Subject Property.
    b. Waste Connections' Cold Canyon Landfill, San Luis Obispo (non-haz soil) – 31 miles.
    c. Waste Management's Simi Valley Landfill (non-haz soil) – 135 miles.
    d. Waste Connections' Chiquita Canyon Landfill (non-haz soil) – 136 miles.
    e. Waste Management's Kettleman Hills Facility (hazardous waste) – 121 miles.
    f. Waste Management's McKittrick Waste Landfill (hazardous waste) – 110 miles.

g. U.S. Ecology, Beatty, NV (hazardous waste) – 365 miles.

Estimated costs for this alternative can be high to transport the waste soil to an appropriate landfill facility, so the volumes must be carefully monitored and all efforts made to retain soil onsite that is appropriate to be re-used.

The removal of soils containing the highest contaminant concentrations will significantly reduce the mass of soil contaminants at the site, and would also facilitate the attenuation of residual contaminants in the remaining soils.

Due to the broad acceptance and effectiveness of this remedial alternative, this alternative was chosen as the best remedial alternative for remediating soil at the Subject Property.

Asphalt/oiled road materials deemed to pose *de minimis* risk may be able to remain or be re-used onsite.

6.1.6 Insitu Chemical Oxidation

In-situ chemical oxidation (ISCO) involves injecting strong oxidants (like sodium/potassium permanganate, sodium persulfate—often activated by chelating agents, heat, alkali—or hydrogen peroxide/Fenton's chemistry, and ozone) directly into subsurface soil and groundwater zones to destroy petroleum hydrocarbons, BTEX, diesel constituents, fuel oxygenates, and similar VOCs by breaking them down into CO_2, water, and benign salts. ISCO may be useful in oilfield settings with moderate to high contaminant concentrations or sorbed mass zones. It offers relatively rapid treatment (weeks to months), though multiple injection events are often needed for full contaminant contact and destruction. ISCO often facilitates accelerated biodegradation. After a chemical oxidation treatment, oxidant residuals or breakdown products (e.g., oxygen release compound/ORC, calcium peroxide) can support aerobic microbial populations to degrade any remaining hydrocarbons in a second phase of treatment.

Injections are typically done using direct-push drilling or injection wells spaced in a grid or radial pattern to ensure oxidant penetrates target zones. Drawbacks of ISCO include clogging of soil pores by oxidation byproducts, rapid decomposition in reactive soils, potential surfacing, heat generation, and regulatory requirements.

6.2 Comparison of Alternatives

Below is a table summarizing the rankings of the remedial alternatives. The ranking criteria are as follows:

- Effectiveness considers the ability to meet cleanup goals specific to COCs.
- Implementability includes technical feasibility, site access, permitting, and equipment availability.
- Cost is ranked from 1 = highest to 5 = lowest.
- Time is ranked from 1 = slowest to 5 = fastest.

- Regulatory Acceptance is based on alignment with EHS, RWQCB and County of Santa Barbara guidelines.
- Community Acceptance assumes public outreach input and general environmental values common in the region.
- Scoring is on a scale of 1 (poor) to 5 (excellent). Ranking is from 1 (best) to 6 (worst).

Rankings of Remedial Alternatives

Alternative	Effectiveness (meets cleanup goals)	Implementability	Cost	Time	Regulatory Acceptance	Community Acceptance	Total Score	Ranking
1. No Action	0 – Does not meet cleanup goals	5 – Easiest	5 – Lowest cost	5 - Immediate	0 – Not acceptable	1 – Not acceptable	16	6 (Last)*
2. Capping and Institutional Controls	0 – Does not meet cleanup goals	2 – Not Technically feasible given proposed grading	4 – Low, no removals but long-term monitoring	2 – Long Term, Slower than excavation	2 – Acceptable but may require multiple approvals	2 – Less favorable	12	5
3. Excavation and Landfarming	5 – Removal and reduction of contaminant mass	3 – Requires site-specific design	3 – lower cost than export	2 – long duration to treat soil	4 – generally acceptable	4 – acceptable if local	21	2
4. Soil Vapor Extraction (SVE)	1 – Would not remove heavy oils and hydrocarbons, depends on soil conditions	2 – not practical given the nature and extent of contamination and large scale	1 – high	2 – long several years	2 – acceptable but not likely for this application	3 – Mixed	11	3
5. Excavation and offsite disposal	5 – Removal and reduction of contaminant mass	4 – Standard and proven	2 – high cost but may be mitigated if soil transported to nearby WPMF	4 – Reasonable. Would follow grading phases	5 – Fully acceptable	5 – Highly acceptable if local	28	1 (Best)
6. Insitu Chemical Oxidation	1 – Depends on site-specific conditions. Less effective in vadose zone soils where oxidant movement is limited	1 – not practical given extent of soil impacts and proposed development	1 - high	3 – multiple treatments	2 – Not well accepted	2 – Less favorable	10	4

** Alternative 1 is not considered to be acceptable*

Based on the rankings outlined above, excavation and offsite disposal ranks the highest and is the preferred alternative for remediation of the impacts at the Subject Property. Landfarming, capping, and institutional controls may also be considered in combination with other alternatives.

7.0 Conclusions and Recommendations

This FS provides a summary of findings of soil impacts at the Subject Property stemming from historical oilfield operations, outlines an evaluation of alternatives for the remediation of those impacts to prepare the site for development, and identifies the preferred alternative.

7.1 Conclusions

Based on the findings of the eight historical environmental studies performed to date, field site reconnaissance, review of historical oil operation maps, diagrams and reports, interviews, and results of current Phase 1 and Phase II investigations performed, as well as our professional judgement, it is estimated that approximately 14,700 cubic yards (or 23,000 tons) of soil and/or asphalt/oiled road material will require remediation to meet site cleanup standards.

Nonetheless, a comprehensive site-wide supplemental Phase II site investigation will be performed to investigate all site features and areas of concern, to be followed by the delineation of any soil impacts that are identified. Additional investigation and a proposed sampling plan are detailed in *Waterstone's Workplan for Supplemental Site Investigation* dated August 15, 2025 submitted to County of Santa Barbara EHS for review and approval. Areas found to have elevated concentrations of TPH, VOCs, and metals will be identified for remediation to be outlined in a revised Remedial Action Plan (RAP) to be submitted to EHS for approval.

7.2 Identification of Preferred Alternative

The analysis presented in this FS found that excavation and offsite disposal is the preferred alternative for remediation of soil impacts at the Subject Property. Other alternatives may be considered based on further dialogue with EHS and results of additional investigations. This work will be conducted in accordance with an approved RAP and SMP. Under the excavation alternative, soil will be excavated and transported to the Waste Pile Management Facility on the adjoining Newlove oilfield operating area which is planned to continue to operate. Excess volumes of soil that cannot be accommodated at the WPMF or soils that are found to be hazardous and cannot be placed in the WPMF will be transported offsite to a local non-hazardous waste landfill or hazardous waste facility.

Confirmation soil samples will be collected and analyzed to demonstrate that site cleanup goals have been achieved.

7.3 Future Actions and Schedule

Implementation of additional site investigation and remediation is conditioned on the approval of the Solomon Hills Specific Plan by the County of Santa Barbara. Site investigation activities, future remediation, EHS reviews and approvals, and site closure will be performed on a feature by feature and phase by phase bases or, in some cases, in groups of features. Work will follow the sequence of grading the four phases for the Solomon Hills development projected to extend over 14 years.

A new Phase I Environmental Site Assessment (ESA) and Workplan for Supplemental Site Investigation were recently completed to identify all potential features or AOCs within the Subject Property boundaries and to update the findings of previous studies performed from 1991 through 2024 that may require evaluation as part of the completion of the RAP or CAP.

This work is expected to commence after the County of Santa Barbara approves the Solomon Hills project and prior to the abandonment of oilfield operations and site grading or development activities.

Remediation will eliminate or dramatically decrease the likelihood of exposures to future occupants, site features will be closed by EHS prior to initiating grading operations, and grading will be performed under the guidance of a Soil Management Plan.

8.0 References

Allan E. Seward Engineering Geology, Inc., 2023. Geotechnical Report, Solomon Hills, General Plan Amendments and Specific Plan. October 20.

DTSC, 2001. Information Advisory for Clean Imported Fill Material. October.

DTSC, 2009. Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process. July 1.

Harding ESE, 2001. Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California. October 22. *Includes excerpts from ENSR Phase II (1995).*

Kearney, 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science, University of California. March.

Santa Maria Energy, 2015. Water Code Directive pursuant to Section 13267 ("Order"), Santa Maria Energy, LL, Careaga Lease, Orcutt Oil Field. December 15.

USGS, 2022. Hydrogeologic Characterization of the San Antonio Creek Valley Watershed, Santa Barbara County, California. Report 2022-5001. January 31.

Waterstone Environmental, Inc., 2004. Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California. September 6.

Waterstone Environmental, Inc., 2007. Summary of Site Characterization Activities for Breitburn Energy's Newlove and Careaga Leases at the Orcutt Hill Oil Field, Orcutt, CA. October 5.

Waterstone Environmental, Inc., 2024. Phase II Investigation and Remedial Action Plan, Solomon Hills, Santa Barbara County, CA. June 27.

Waterstone Environmental, Inc., 2025. Workplan for Supplemental Site Investigation, Solomon Hills, Santa Barbara County, CA. August 15.

Waterstone Environmental, Inc., 2025. Phase I Environmental Site Assessment, Solomon Hills, Santa Barbara County, CA. August 15.

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Allan E. Seward Engineering Geology, Inc., 2023. Geotechnical Report, Solomon Hills, General Plan Amendments and Specific Plan. October 20.

DTSC, 2001. Information Advisory for Clean Imported Fill Material. October.

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Santa Maria Energy, 2015. Water Code Directive pursuant to Section 13267 ("Order"), Santa Maria Energy, LL, Careaga Lease, Orcutt Oil Field. December 15.

USGS, 2022. Hydrogeologic Characterization of the San Antonio Creek Valley Watershed, Santa Barbara County, California. Report 2022-5001. January 31.

Waterstone Environmental, Inc., 2004. Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California. September 6.

Waterstone Environmental, Inc., 2007. Summary of Site Characterization Activities for Breitburn Energy's Newlove and Careaga Leases at the Orcutt Hill Oil Field, Orcutt, CA. October 5.

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Tables

Table 1
2024 Soil Analytical Results for TPH and VOCs
Solomon Hills Development
Santa Barbara County, CA

				Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-W-6	5	1/31/2024	<50	<50	<99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<82	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	<4.1	<4.1	ND
		20		<9.9	**18**	**26**	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.3	<4.7	<4.7	ND
Careaga	CL-W-37A	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<84	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.4	<4.2	<4.2	ND
		15		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
Careaga	CL-W-45	5	1/30/2024	<9.9	**12**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<92	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<4.6	<4.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	<9.9	**17**	**22**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	**46**	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**4.7**	<3.6	<3.6	**12**	<3.6	**12**	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<10	**19**	**30**	<77	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	ND
		10		<9.9	<9.9	<20	<69	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<6.9	<3.5	<3.5	ND
		15		<9.9	<9.9	<20	<69	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-63	10	1/30/2024	<10	<10	<20	<90	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<9.0	<4.5	<4.5	ND
		20		**320**	**3,800**	**1,500**	<89	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		25		<10	**24**	<20	<130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	ND
Careaga	CL-W-74	5	1/30/2024	<9.9	**11**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	**1,400**	**76**	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	**19**	<20	**150**	**85**	**37**	**7.6**	**5.2**	**7.6**	<4.2	<4.2	**5.7**	**4.5**	<4.2	**9.3**	<4.2	**11**	**19**	**30**	ND
		15		<10	**11**	<20	<69	**59**	**9.2**	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-78	10	1/30/2024	<9.9	<9.9	<20	<100	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	ND
		20		**1,600**	**7,200**	**2,800**	<4,600	**730**	**13,000**	**9,400**	<230	**12,000**	**1,800**	**1,200**	**9,100**	<230	<230	<230	**7,200**	<460	<230	<230	ND
		25		<10	<10	<20	<78	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.8	<3.9	<3.9	ND
		30		<9.9	<9.9	<20	<75	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.5	<3.8	<3.8	ND
Careaga	CL-W-B-5	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
Careaga	CL-SEP1	2	1/30/2024	<50	**61**	**120**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.8	<4.4	<4.4	ND
		10		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
2024 Soil Analytical Results for TPH and VOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-TF3	2	1/31/2024	<50	<50	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<50	<50	<100	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	ND
		10		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<50	**180**	**370**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	**31**	**23**	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		10		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<9.9	**13**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<73	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	ND
		10		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TR1	2	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<110	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	ND
Newlove	N-W-22	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<73	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.3	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<75	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.5	<3.7	<3.7	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				430[3]	260[3]	12,000[3]	61,000[3]	330[3]	5,900[3]	1,900,000[2]	34,000[3]	3,800[3]	2,400,000[1]	--	3,800,000[2]	1,100,000[3]	950[3]	300,000[2]	2,200,000[1]	550,000[2]	640,000[2]	580,000[3]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
bgs	below ground surface
	Result exceeds screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised April 2025)

2 US EPA Regional Screening Levels (November 2024)

3 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Note: TPH-G screening level applies to TPH-gasoline C4-C12.

Table 2
2024 Soil Analytical Results for SVOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)												
				Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	Benzo(a)anthrac ene	Chrysene	Benzo(b)fluorant hene	Benzo(k)fluorant hene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthr acene	All Other SVOCs	B(a)P-eq
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**260**	<250	<250	2000	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--		
		20		<250	<250	<250	1600	<250	<250	<250	<250	<250	<250	<250	ND	602.5
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	700	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	<250	<250	<250	2100	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<250	<250	<250	670	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--		
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--		
		20		<12,000	**17,000**	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	ND	28,920
		25		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		10		<250	<250	<250	1900	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	1200	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--		
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--		
		20		<12,000	<12,000	**15,000**	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	<12,000	ND	28,920
		25		--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
2024 Soil Analytical Results for SVOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)												
				Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	Benzo(a)anthrac ene	Chrysene	Benzo(b)fluorant hene	Benzo(k)fluorant hene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthr acene	All Other SVOCs	B(a)P-eq
Careaga	CL-FEB1	2	1/31/2024	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--		
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	ND	12,050
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	ND	6025
		2		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		5		--	--	--	--	--	--	--	--	--	--	--		
Careaga	CL-TF3	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	ND	31,330
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	<13,000	ND	31,330
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	ND	6025
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
Careaga	CL-TR1	2	1/30/2024	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		5		--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	AD-2	5		<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	ND	1,205
		10		--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
		20		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	2000	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	1100	<250	<250	<250	<250	<250	<250	<250	ND	602.5
		15		--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				630,000	180	190,000	19,000,000	1,100	11,000	1,100	11,000	110	1,100	28	--	900

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter

Screening levels taken from SF Bay RWQCB ESLs, DTSC HERO HHRA Note 3, and USEPA RSLs.

B(a)P-eq	benzo(a)pyrene equivalent screening level taken from DTSC 2009 *Use of the Northern and Southern California Polynuclear Aromatic Hydrocarbon (PAH) Studies in the Manufactured Gas Plant Site Cleanup Process*. July 1.
bgs	below ground surface
	Detection exceeds screening level

Table 3
2024 Soil Analytical Results for Metals
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals EPA Method 6010B/7471A (mg/Kg) Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.7**	**35**	<0.49	<0.49	--	**7.6**	**1.2**	**2.9**	**1.8**	**1.9**	**3.3**	**9.1**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		**1.0**	**43**	<0.48	**2.2**	--	**10**	**6.2**	**3.3**	**3.9**	**1.6**	**12**	**15**	**13**	ND
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<0.98	**18**	<0.49	<0.49	--	**5.1**	**1.3**	**1.4**	**1.7**	**1.2**	**2.4**	**8**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	**7.2**	**45**	**0.99**	**0.59**	--	**17**	**14**	**2.5**	**5.4**	**7.7**	**18**	**29**	**13**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**13**	**50**	**1.2**	**0.51**	--	**26**	**5.3**	**28**	**5.8**	**2.1**	**50**	**35**	**82**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<0.98	**38**	<0.49	<0.49	--	**6.3**	**1.6**	**3.7**	**2.8**	**1.1**	**4.9**	**7.9**	**11**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		<0.98	**14**	<0.49	<0.49	--	**22**	<0.49	**1.8**	**4.2**	**1.2**	**4.1**	**8.6**	**15**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	**3.1**	**80**	<0.48	<0.48	--	**22**	**1.2**	**4.2**	**8.1**	**2.4**	**7.6**	**27**	**9.8**	ND
		10		**4.2**	**170**	<0.48	**53/56**	**0.69**/<0.25	**26**	**1.7**	**4.9**	**3.1**	**1.9**	**41**	**34**	**39**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.7**	**30**	<0.49	<0.49	--	**17**	**1.9**	**5.6**	**4.4**	**2.3**	**7.4**	**17**	**13**	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<0.98	**32**	<0.49	<0.49	--	**6.5**	**1.8**	**3.2**	**2.3**	**1.2**	**5.9**	**8.8**	**6.5**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		<0.97	**21**	<0.49	<0.49	--	**6.0**	**0.88**	**1.8**	**1.6**	<0.97	**4.7**	**11**	**5.2**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
2024 Soil Analytical Results for Metals
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals EPA Method 6010B/7471A (mg/Kg)														
				Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.0**	**22**	<0.49	<0.49	--	**9.7**	**0.80**	**3.7**	**2.8**	**1.8**	**3.9**	**8.8**	**6.0**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<0.99	**30**	<0.50	<0.50	--	**5.4**	**1.1**	**2.4**	**2.6**	**1.9**	**3.7**	**7.7**	**5.7**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	**1.5**	**29**	<0.49	<0.49	--	**6.6**	**1.4**	**6.5**	**11**	**4.0**	**4.7**	**13**	**16**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF3	2	1/31/2024	**1.2**	**110**	<0.49	**0.74**	--	**7.3**	**1.4**	**4.7**	**3.3**	**2.3**	**6.2**	**10**	**52**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<0.98	**36**	<0.49	**0.89**	--	**4.9**	**0.91**	**3.3**	**4.2**	**4.4**	**3.7**	**7.8**	**13**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	**1.3**	**24**	<0.48	<0.48	--	**7.6**	**0.84**	**3.2**	**3.0**	**1.8**	**3.6**	**8.5**	**8.6**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**3.0**	**12**	<0.48	<0.48	--	**11**	**0.68**	**2.2**	**3.1**	**2.9**	**3.6**	**14**	<4.8	ND
Careaga	CL-TR1	2	1/30/2024	**1.6**	**35**	<0.50	<0.50	--	**6.1**	**1.3**	**3.3**	**2.3**	**3.4**	**4.3**	**10**	<5.0	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	
Newlove	AD-2	5	1/31/2024	2.7	25	<0.49	0.94	--	12	2.4	5.4	6.6	<0.98	9.4	17	28	
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	
		20		--	--	--	--	--	--	--	--	--	--	--	--	--	
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**4.8**	**18**	<0.49	<0.49	--	**8.0**	**0.77**	**1.6**	**3.5**	**19**	**4.3**	**15**	**5.8**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.1**	**16**	<0.48	<0.48	--	**10**	**1.2**	**2.0**	**2.6**	**1.5**	**3.6**	**14**	**12**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
2024 Soil Analytical Results for Metals
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals EPA Method 6010B/7471A (mg/Kg) Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**1.5**	**38**	<0.48	<0.48	**--**	**15**	**2.1**	**4.4**	**3.6**	<0.95	**8.5**	**19**	**16**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				12[3]	15,000[4]	16[4]	78[4]	1/1**	120,000[2]	23[4]	3,100[4]	80[4]	390[4]	820[4]	390[4]	23,000[4]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface
	Detection exceeded screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised April 2025)

2 US EPA Regional Screening Levels (November 2024)

3 The screening level of 12 ppm for arsenic is within the range of naturally-occurring background levels for California soils as cited in Bradford et. al., “Background Concentrations of Trace and Major Elements in California Soils”, Kearney Foundation Special Report, UC-Riverside and CAL-EPA DTSC, March 1996.

4 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 4
2024 Soil Analytical Results for PCBs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	PCBs EPA Method 8082 (µg/kg)
Careaga	CL-T-1	1	1/30/2024	<50
		2		<50
			Residential Screening Level	170

Notes:

ND/<	Not Detected above noted Reporting Limit
PCBs	Polychlorinated Biphenyls
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface

Table 5
2024 Soil Vapor Analytical Results for VOCs
Solomon Hills Development
Santa Barbara County, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Volatile Organic Compounds EPA Method 8260B (µg/m³) Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other VOCs
Careaga	CL-W-6(32)	10	1/31/2024	**9.0**	**45**	**13**	**13**	<40	<12	**17**	<12	**10**	<8	**134**	<8	**37**	**10**	**130**	ND
		20		<8	**31**	**14**	**10**	<40	<12	**12**	<12	<8	<8	**68**	<8	**27**	<8	**99**	ND
Careaga	CL-W-61	10	1/31/2024	**25**	**21**	<8	<8	<40	<12	<8	<12	<8	<8	**221**	<8	**19**	<8	**98**	ND
		15		**67**	**23**	<8	<8	<40	<12	<8	<12	<8	<8	**300**	**46**	**16**	<8	**95**	ND
		15 REP		**74**	**23**	<8	<8	<40	<12	<8	<12	<8	**9.0**	**313**	**76**	**16**	<8	**89**	ND
Careaga	CL-W-63	10	1/31/2024	**12**	**14**	<8	<8	<40	<12	<8	<12	<8	<8	**100**	<8	**13**	<8	**70**	ND
		20		**561**	**2,520**	**2,380**	**483**	<40	<12	**787**	**1,210**	<8	<8	**959**	<8	**1,220**	**301**	**4,127**	ND
Careaga	CL-W-78	10	1/31/2024	**553**	**6,540**	**2,900**	**602**	**67**	**220**	**2,290**	**1,200**	<8	<8	**160**	<8	**2,960**	**23**	**2,588**	ND
		20		NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
Careaga	CL-FEB1	10	1/31/2024	**8**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	--	ND
		15		**16**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**20**	<8	<8	<8	--	ND
Careaga	CL-SEP1	10	1/31/2024	**12**	**56**	**26**	**10**	<40	<12	**27**	**16**	**9.0**	<8	**52**	<8	**40**	<8	**99**	ND
Careaga	CL-TF3	10	1/31/2024	**11**	**9.0**	<8	<8	<40	<12	<8	<12	<8	<8	**33**	<8	**12**	<8	**16**	ND
Careaga	CL-TF4	10	1/31/2024	**9.0**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	**19**	ND
Careaga	CL-TH1	10	1/31/2024	**232,000**	**35,600**	**8,760**	<2400	<12000	<3600	**5,900**	<3600	<2400	<2400	**55,900**	<2400	**9,200**	**4,770**	**71,200**	ND
Newlove	AD-2	10	1/31/2024	**43**	**20**	<8	<8	<40	<12	<8	<12	<8	<8	**106**	<8	**19**	<8	**78**	ND
		20		**17**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**35**	**9**	**9**	<8	--	ND
Indoor Air Screening Level				0.097	1.1	--	--	0.083	--	1,000	--	940	0.46	310	0.48	63	63	100	
Residential Screening Level AF= 0.03				3.2	37	--	--	2.8	--	33,333	--	31,333	15.3	10,333	16	2,100	2,100	3,333	
Residential Screening Level AF= 0.001				97	1,100	--	--	83	--	1,000,000	--	940,000	460	310,000	480	63,000	63,000	100,000	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
µg/m3	micrograms per cubic meter
bgs	below ground surface
NF	No flow
35,600	Result exceeds screening level

Screening Levels:
DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated April 2025). Unless Otherwise Noted (AF = 0.03).

AF = Attenuation Factor, applied according to Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion (February 2023).
* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (Nov 2024) with appropriate AF because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

Table 6

Summary of Phase II Investigation Features
Waterstone 2006 and 2024
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Grading Phase	Feature/AOC	AOC Quantities			Feature ID/ Description	Sampled During Phase II Investigations			Results Confirmed 18 years later
		Qty.	Sampled	Impacts Identified		2006	2024	Impacts Identified?	
1	Oil Wells	45	15 (33%)	3 of 15 (20%)	NL-#48	X	X	N	6 of 6 Wells Sampled
					C-#6		X	N	
					C-#6 (32)		X	N	
					C-#37A	X	X	N	
					C-#45		X	N	
					C-#60		X	N	
					C-#61	X	X	Y	
					C-#63	X	X	Y	
					C-#74	X	X	N	
					C-#75		X	N	
					C-#76				
					C-#77		X	N	
					C-#78	X	X	Y	
					C-#91	X		N	
					C-#102				
					C-#126				
					C-#136	X		N	
					C-#146				
					C-#146D	X		N	
	Existing/Former Aboveground Storage Tanks - Tank Batteries	4	2 (50%)	0 of 2	Former Santa Fe Energy TB	X	X	N	2 of 2 TBs Sampled
					Gitte-Ten, Section 32 (37A) TB	X	X	N	
	Piping/Test Header	Qty.	2	1 of 2	Test Header/Piping		X	Y	
					Piping Corridor		X	N	
	Separators	2	1 (50%)	0 of 1	Separators		X	N	
	Equipment Storage Areas	3	1 (33%)	0 of 1	Electrical/Transformer Storage		X	N	
	Former Dump Sites	1	1 of 1	0 of 1	Dump Site	X		N	

Table 6

Summary of Phase II Investigation Features
Waterstone 2006 and 2024
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Grading Phase	Feature/AOC	AOC Quantities			Feature ID/ Description	Sampled During Phase II Investigations			Results Confirmed 18 years later
		Qty.	Sampled	Impacts Identified		2006	2024	Impacts Identified?	
2	Oil Wells	3	1 of 3	0 of 1	NL-#60	X		N	
	Former Dump Sites	2	2 (100%)	1 of 2 (50%)	Auto Dump	X	X	N	1 of 1 Dump site sampled
					Dump Site	X		Y	
3	Oil Wells	12	5 of 13 (38%)	0 of 5 (0%)	NL-#46		X	N	
					C-#B-5		X	N	
					C-#46	X		N	
					C-#47A	X		N	
					C-#62	X		N	
Offsite	Oil Wells	5	1 (25%)	0 of 1	NL-#22		X	N	

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 1			
Oil Wells	45	NL-#20-16Z	
		NL-#32-21Z	
		NL-#44	
		NL-#45	
		NL-#48	
		NL-#49	
		NL-#50	
		NL-#89	
		C-#2A	
		C-#3	
		C-#4	
		C-#4A	
		C-#5	
		C-#6	
		C-#6	
		C-#8	
		C-#9	
		C-#11	
		C-#15	
		C-#17	
		C-#36	
		C-#37A	
		C-#45	
		C-#52	
		C-#57	
		C-#60	
		C-#61	Petroleum impacts identified during 2006 sample event
		C-#63	Petroleum impacts identified during 2006 and 2024 sample events
		C-#64	
		C-#66	
		C-#68	
		C-#74	
		C-#75	
		C-#76	
		C-#77	
		C-#78	Petroleum impacts identified during 2006 and 2024 sample events
		C-#84	
		C-#88	
		C-#91	
		C-#102	
		C-#126	
		C-#136	
		C-#146	
		C-#146D	
		C-#6742X	
Sumps	12	Well N-#50	Near well 50 and Newlove south boundary
		C-#4	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#5	Ref: 1991 Phase I
		C-#6	Ref: 2015 letter to RWQCB
		C-#11	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#52	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#57	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#64	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#68	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#74	Ref: 2015 letter to RWQCB
		C-#77	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#88	Ref: 2015 letter to RWQCB, 1991 Phase I
	33	Other Well Sites	Possible Sumps based on past practice as documented in 2015 letter to RWQCB

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 1 (continued)			
Aboveground Storage Tanks	4	Former Santa Fe Energy Tank Battery	East of Well C-#68
		Former AST	North of Well C-#75
		Former Water Tanks	West of Well C-#146D
		Gitte-Ten, Section 32 (37A) Tank Battery	At Well C-#37A. Out-of-Service
	at Well Sites	Former Test Tanks	
Piping/Test Header	4	Former Test Header	NW of Well C-#6
		Test Header/Piping Corridor	West of Well C-#74. Petroleum impacts identified during 2024 sampling event. (TH1)
		Test Site	East of Well C-#75
		Pipe Corridor	South of Well C-#146D
	43,700	Piping, linear feet of pipe runs	At well pads and along lease roads
Separators	1	Separators	West of Well C-#146.
Former Condensate Trap/Blow-down			If identified. None currently known.
Chemical Usage/Storage	2	Well C-#6	
		Well N-#48	
Equipment Storage Areas	3	Electrical/Transformer Storage	at Well C-#6742X
		SW of Well C-#146	
		Well C-#102	
Jack Line	1		Between Wells C-#6 and C-#11
Former Dump Sites	1	Dump Site	North of Well C-#77
Asphalt/Oiled Lease Roads	73,000 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	45 Well Sites		Near Well Sites

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 2			
Oil Wells	3	NL-#60	
		NL-#79	
		NL-#101	
Sumps	3	Well Sites	Possible Sumps based on past practice as documented in 2015 letter to RWQCB
Pipelines	2,800	Piping, linear feet of pipe runs	At well pads and along lease roads
Former Condensate Trap/Blow-down			If identified. None currently known.
Former Dump Sites	2	Auto Dump	Newlove Hilltop N-#60
		Dump Site	Newlove Canyon Bottom - TPH impacts identified during 2006 Sampling Event (D-2)
Asphalt/Oiled Lease Roads	13,700 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	3 Well Sites		Near Well Sites

Table 7

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
(by Development Grading Phase)

Feature/AOC	Count	Feature ID/ Description	Comment
Grading Phase 3			
Oil Wells	12	NL-#46	
		NL-#47	
		NL-#98	
		C-#B-5	
		C-#37	
		C-#46	
		C-#47A	
		C-#62	
		C-#65	
		C-#69	
		C-#70	
		C-#7330X	
Sumps	1	C-#62	Ref: 2015 letter to RWQCB, 1991 Phase I
	11	Other Well Sites	Possible Sumps based on past practice as documented in 2015 letter to RWQCB
Pipelines	6,500	Piping, linear feet of pipe runs	At well pads and along lease roads
Former Condensate Trap/Blow-down			If identified. None currently known.
Chemical Usage/Storage	1	Well N-#46	
Asphalt/Oiled Lease Roads	0		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	13 Well Sites		
Offsites			
Oil Wells	5	NL-#22	Newlove Park
		C-#2	Bicknell Road
		C-#1516	
		C-#1615	
		C-#1714	
Pipelines	2,500 lf	Piping, linear feet of pipe runs	Newlove Park. At well pads and along lease roads

Table 8

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Oil Wells	65	NL-#20-16Z	
		NL-#32-21Z	
		NL-#44	
		NL-#45	
		NL-#48	
		NL-#49	
		NL-#50	
		NL-#89	
		C-#2A	
		C-#3	Gas leak identified and repaired in 2010
		C-#4	0.5 bbls of oil spilled on paved road in 1999
		C-#4A	
		C-#5	
		C-#6	
		C-#6	
		C-#8	
		C-#9	
		C-#11	
		C-#15	
		C-#17	
		C-#36	
		C-#37A	
		C-#45	5-10 bbls of oil misted over 100' by 150' area in 1997, 0.5 gal crude oil released to ground around wellhead in 2006
		C-#52	
		C-#57	
		C-#60	History of unpermitted wastewater injections
		C-#61	Petroleum impacts identified during 2006 sample event
		C-#63	Petroleum impacts identified during 2006 and 2024 sample events
		C-#64	
		C-#66	
		C-#68	
		C-#74	
		C-#75	3 gal crude oil released to ground around wellhead in 2006
		C-#76	
		C-#77	
		C-#78	Petroleum impacts identified during 2006 and 2024 sample events
		C-#84	
		C-#88	
		C-#91	
		C-#102	
		C-#126	
		C-#136	
		C-#146	
		C-#146D	
		C-#6742X	
		NL-#60	
		NL-#79	
		NL-#101	
		NL-#46	
		NL-#47	
		NL-#98	
		C-#B-5	Releases reported in 2006 included 2 gal crude oil, 6 bbls produced water into well cellar, 10 gal produced water into well cellar and surrounding area, 50 bbls produced water
		C-#37	20 bbls of oil released to soil and downslope on adjacent drainage/wash in 2007. Impacted soil removed and disposed of offsite.
		C-#46	
		C-#47A	
		C-#62	
		C-#65	
		C-#69	
		C-#70	
		C-#7330X	
		NL-#22	Offsite Newlove Park
		C-#2	Bicknell Road
		C-#1516	
		C-#1615	
		C-#1714	

Table 8

Environmental Features and Areas of Concern
Solomon Hills, Santa Barbara County, CA
Site-Wide Summary

Feature/AOC	Count	Feature ID/ Description	Comment
Sumps	13	Well N-#50	Near well 50 and Newlove south boundary
		C-#4	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#5	Ref: 1991 Phase I
		C-#6	Ref: 2015 letter to RWQCB
		C-#11	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#52	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#57	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#62	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#64	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#68	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#74	Ref: 2015 letter to RWQCB
		C-#77	Ref: 2015 letter to RWQCB, 1991 Phase I
		C-#88	Ref: 2015 letter to RWQCB, 1991 Phase I
	52	Other Well Sites	Possible Sumps based on past practice as documented in SME letter
Aboveground Storage Tanks	4	Former Santa Fe Energy Tank Battery	East of Well C-#68
		Former AST	North of Well C-#75
		Former Water Tanks	West of Well C-#146D
		Gitte-Ten, Section 32 (37A) Tank Battery	At Well C-#37A Out-of-Service
	at Well Sites	Former Test Tanks	
Piping/Test Header	4	Former Test Header	NW of Well C-#6
		Test Header/Piping Corridor	West of Well C-#74. Petroleum impacts identified during 2024 sampling event. (TH1)
		Test Site	East of Well C-#75
		Pipe Corridor	South of Well C-#146D
	55,500 lf	Piping	At well pads and along lease roads
Separators	1	Separators	West of Well C-#146.
Former Condensate Trap/ Blow-down			If identified. None currently known.
Chemical Usage/Storage	3	Well C-#6	Corrosion/scale inhibitors
		Well N-#48	
		Well N-#46	
Equipment Storage Areas	3	Electrical/Transformer Storage	at Well C-#6742X
		SW of Well C-#146	
		Well C-#102	
Jack Line	1		Between Wells C-#6 and C-#11
Former Dump Sites	3	Dump Site	North of Well C-#77
		Auto Dump	Newlove Hilltop N-#60
		Dump Site	Newlove Canyon Bottom - TPH impacts identified during 2006 Sampling Event (D-2)
Asphalt/Oiled Lease Roads	86,700 sf		Does not include improved asphalt roads e.g. Orcutt Hill Rd. or Mt. Solomon, or Newlove Park
Oiled Berms and Areas Around Well Sites	65 Well Sites		Near Well Sites

Figures

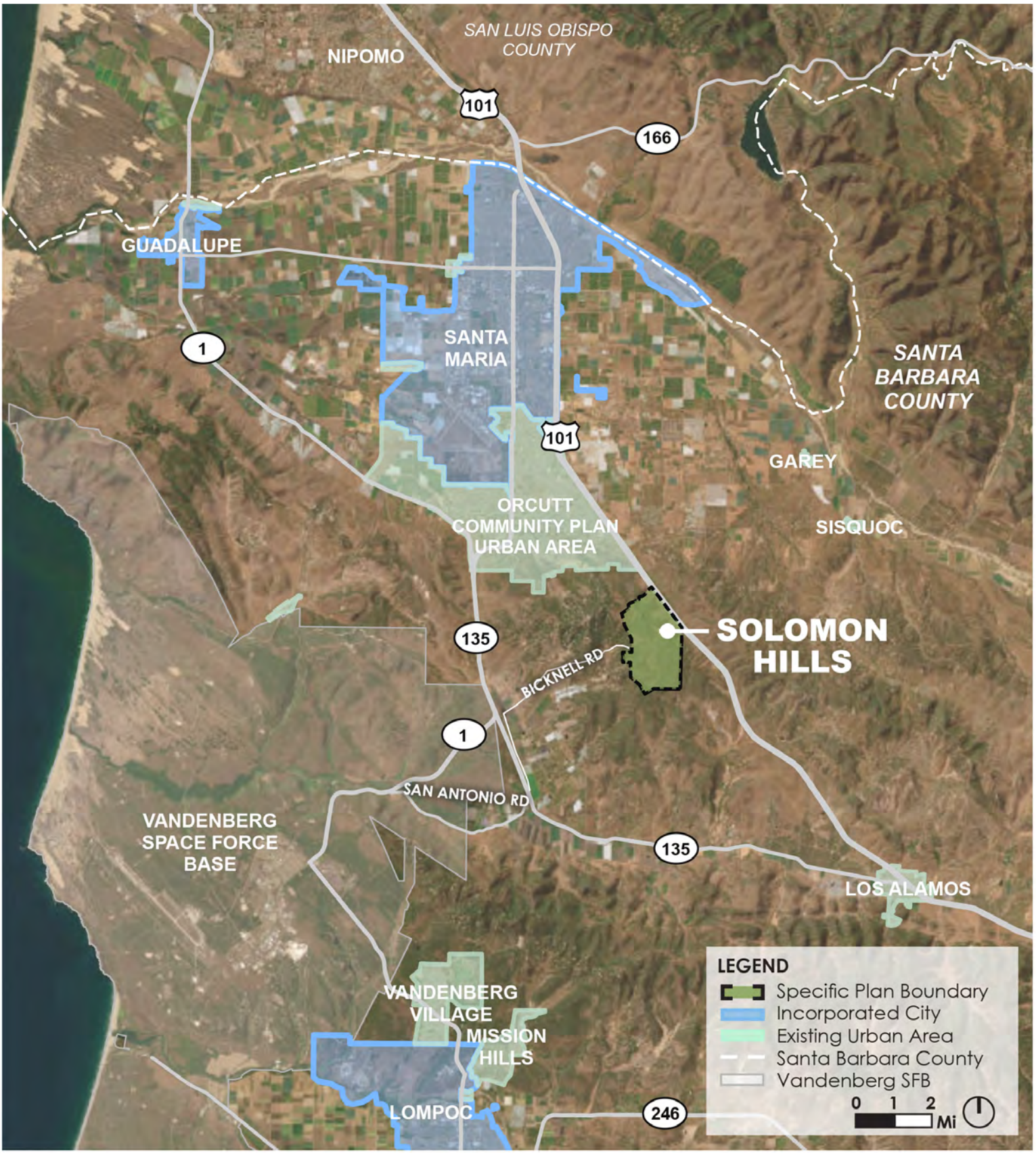


Figure 1
Subject Property Location Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: HLF	Project No: 25-126
Approved By: MS	Date: 8/12/25

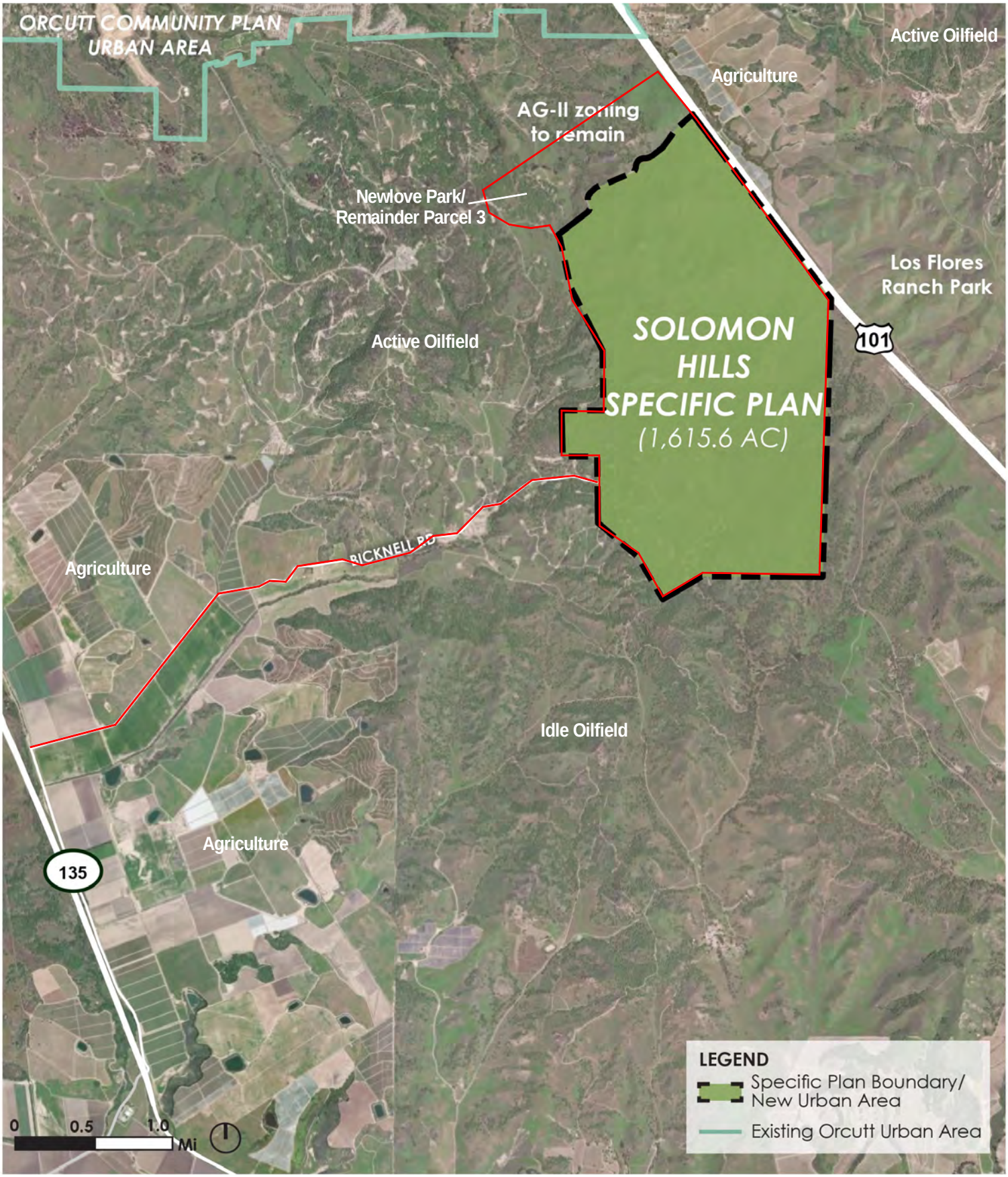


Figure 2
Subject Property Vicinity Map

Solomon Hills
Santa Barbara County, CA

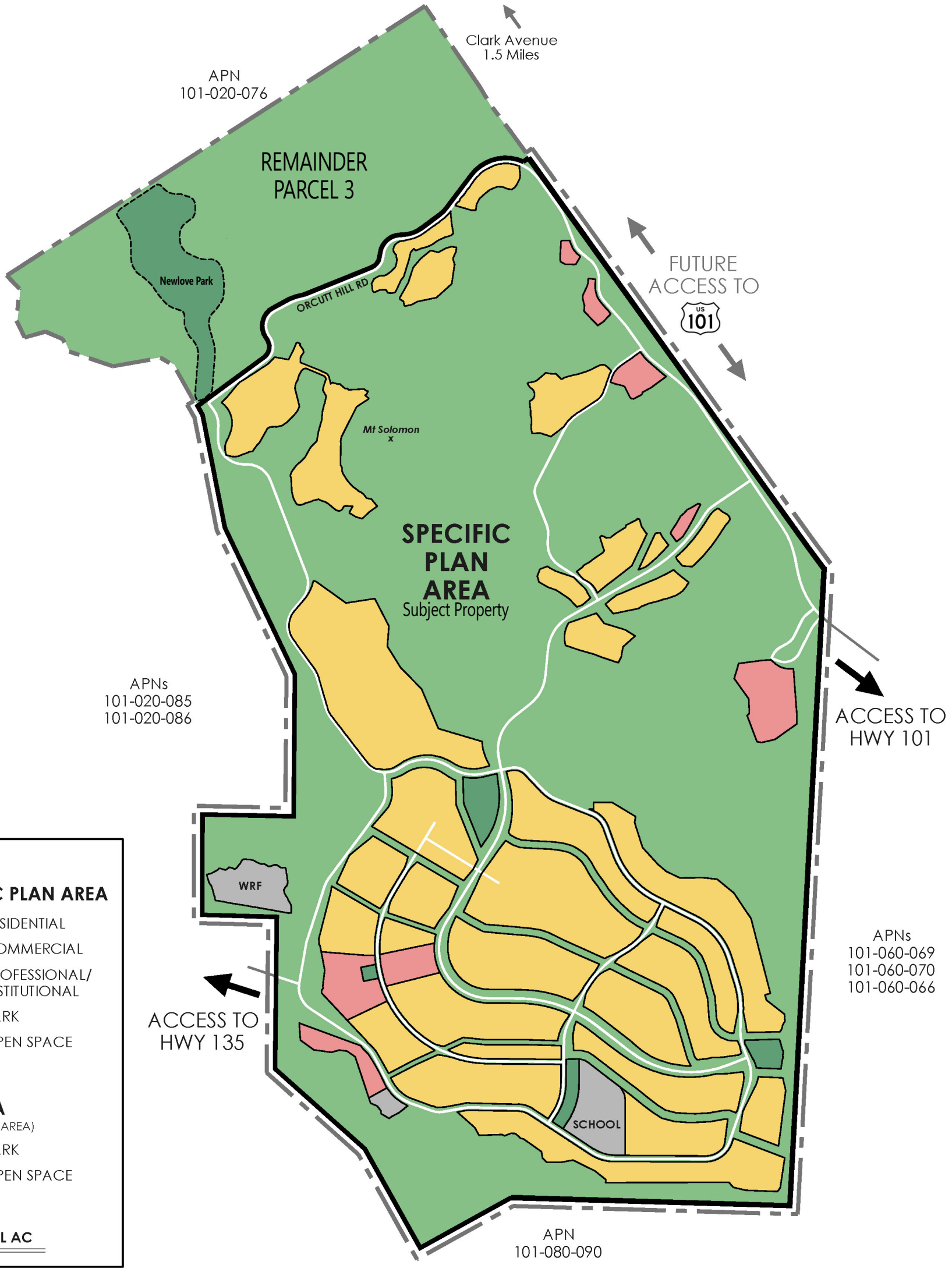
Legend

Approximate Subject Property Boundary, Incl. Bicknell Road

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: HLF	Project No: 25-126
Approved By: MS	Date: 8/12/25

SOLOMON HILLS
AREA DESIGNATIONS MAP
SANTA BARBARA COUNTY, CA



LEGEND

SPECIFIC PLAN AREA

546 AC	RESIDENTIAL
41 AC	COMMERCIAL
25 AC	PROFESSIONAL/ INSTITUTIONAL
41 AC	PARK
963 AC	OPEN SPACE
1,616 AC	

NEWLOVE AREA
(OUTSIDE SPECIFIC PLAN AREA)

31 AC	PARK
256 AC	OPEN SPACE
287 AC	

1,903 TOTAL AC

Figure 3
Development Map

Solomon Hills
Santa Barbara County, CA

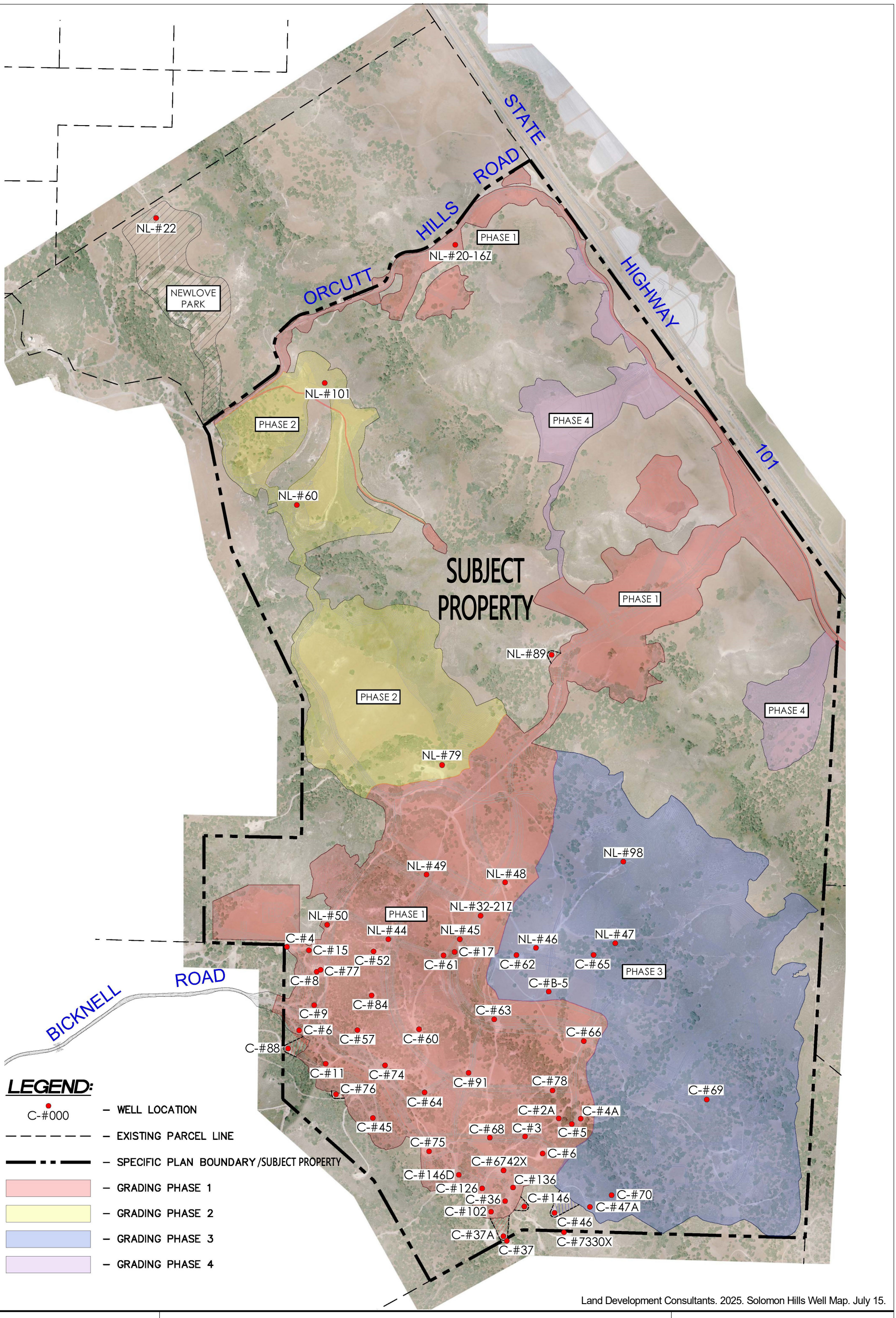
Legend

NORTH

Approximate Scale
0 mi 0.125 mi 0.25 mi

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST., ANAHEIM, CA

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/14/2025



Land Development Consultants. 2025. Solomon Hills Well Map. July 15.

Figure 4
Grading Plan

Solomon Hills
Santa Barbara County, CA

NORTH

Approximate Scale
0' 500' 1000'

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/14/25

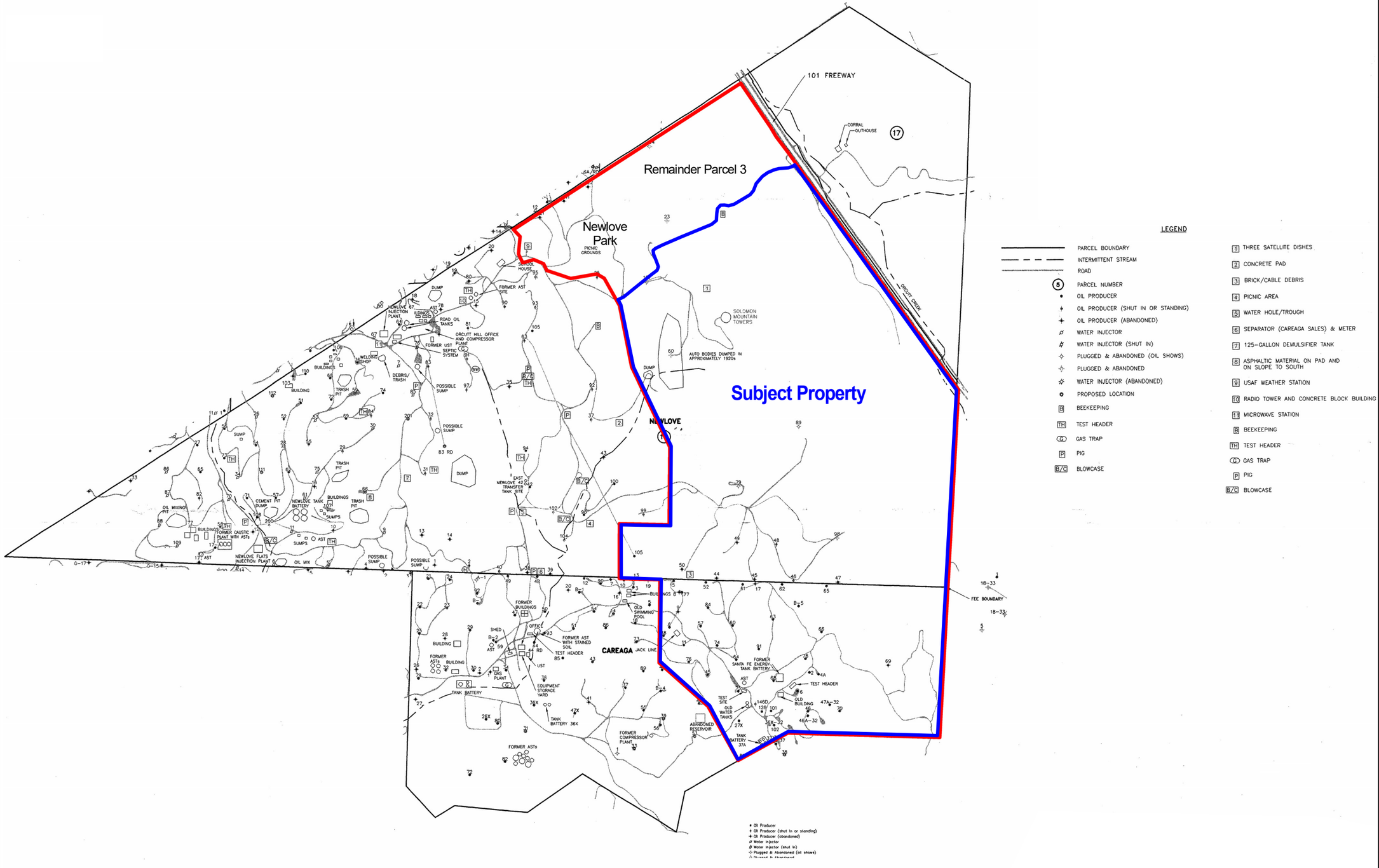
Figure 5
Environmental Features Site Plan

Solomon Hills
Santa Barbara County, CA

Legend

Existing Parcel Line

Subject Property



LEGEND

- PARCEL BOUNDARY
- INTERMITTENT STREAM
- ROAD
- (5) PARCEL NUMBER
- OIL PRODUCER
- OIL PRODUCER (SHUT IN OR STANDING)
- OIL PRODUCER (ABANDONED)
- WATER INJECTOR
- WATER INJECTOR (SHUT IN)
- PLUGGED & ABANDONED (OIL SHOWS)
- PLUGGED & ABANDONED
- WATER INJECTOR (ABANDONED)
- PROPOSED LOCATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- [G] GAS TRAP
- [P] PIG
- [B/C] BLOWCASE
- [1] THREE SATELLITE DISHES
- [2] CONCRETE PAD
- [3] BRICK/CABLE DEBRIS
- [4] PICNIC AREA
- [5] WATER HOLE/TROUGH
- [6] SEPARATOR (CAREAGA SALES) & METER
- [7] 125-GALLON DEMULSIFIER TANK
- [8] ASPHALTIC MATERIAL ON PAD AND ON SLOPE TO SOUTH
- [9] USAF WEATHER STATION
- [10] RADIO TOWER AND CONCRETE BLOCK BUILDING
- [11] MICROWAVE STATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- [G] GAS TRAP
- [P] PIG
- [B/C] BLOWCASE

Reference: Harding ESE Env Site Assessment, Orcutt Hill Area, Santa Barbara County, California. Figure 2, October 22, 2001.

NORTH

0 1000' 2000'

Approximate Scale

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

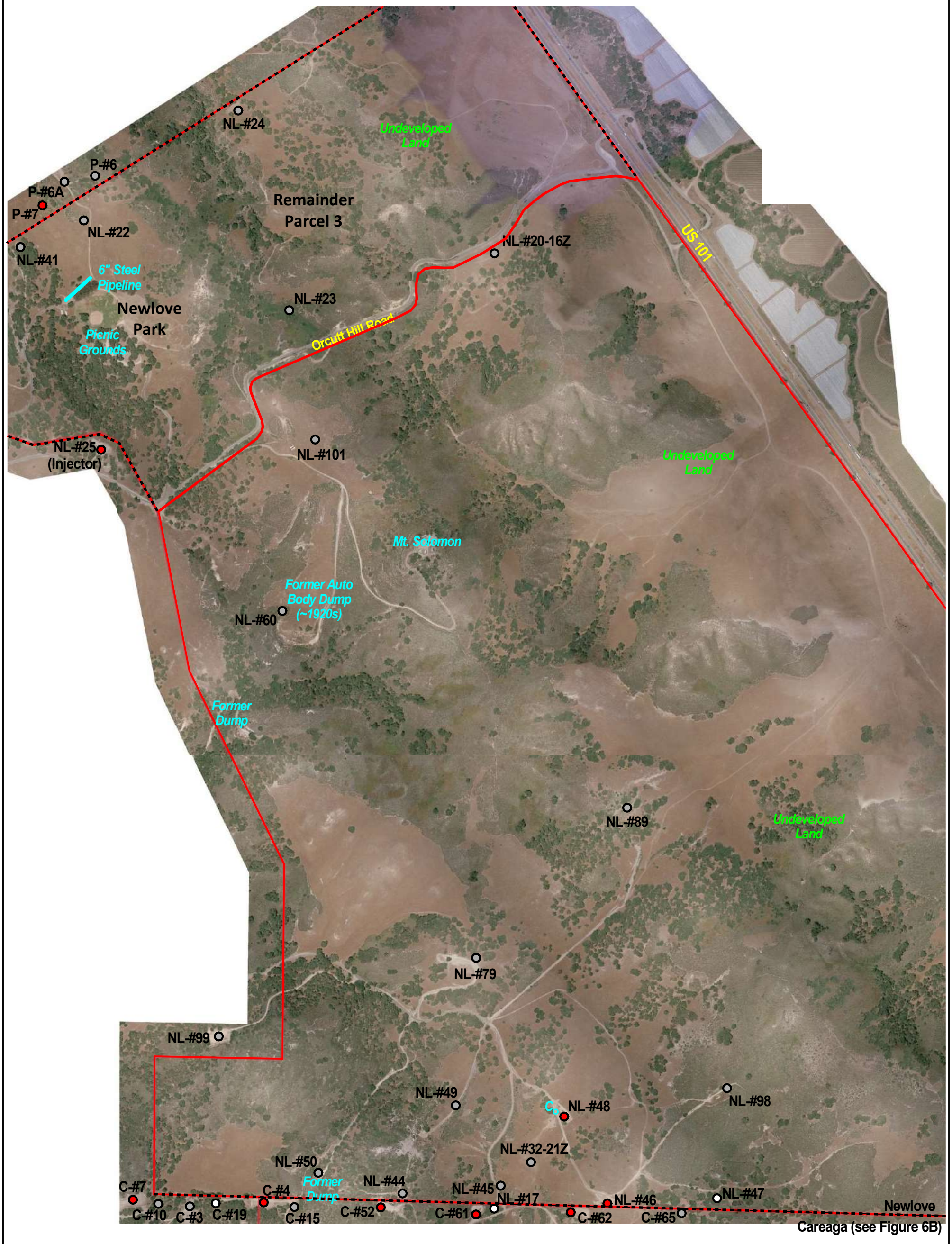


Figure 6A
Subject Property Detail Map - North (Newlove Area)

Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- C - Chemical Usage/Poly Drum
- 6" Steel Pipeline — Site Feature

NORTH

Approximate Scale

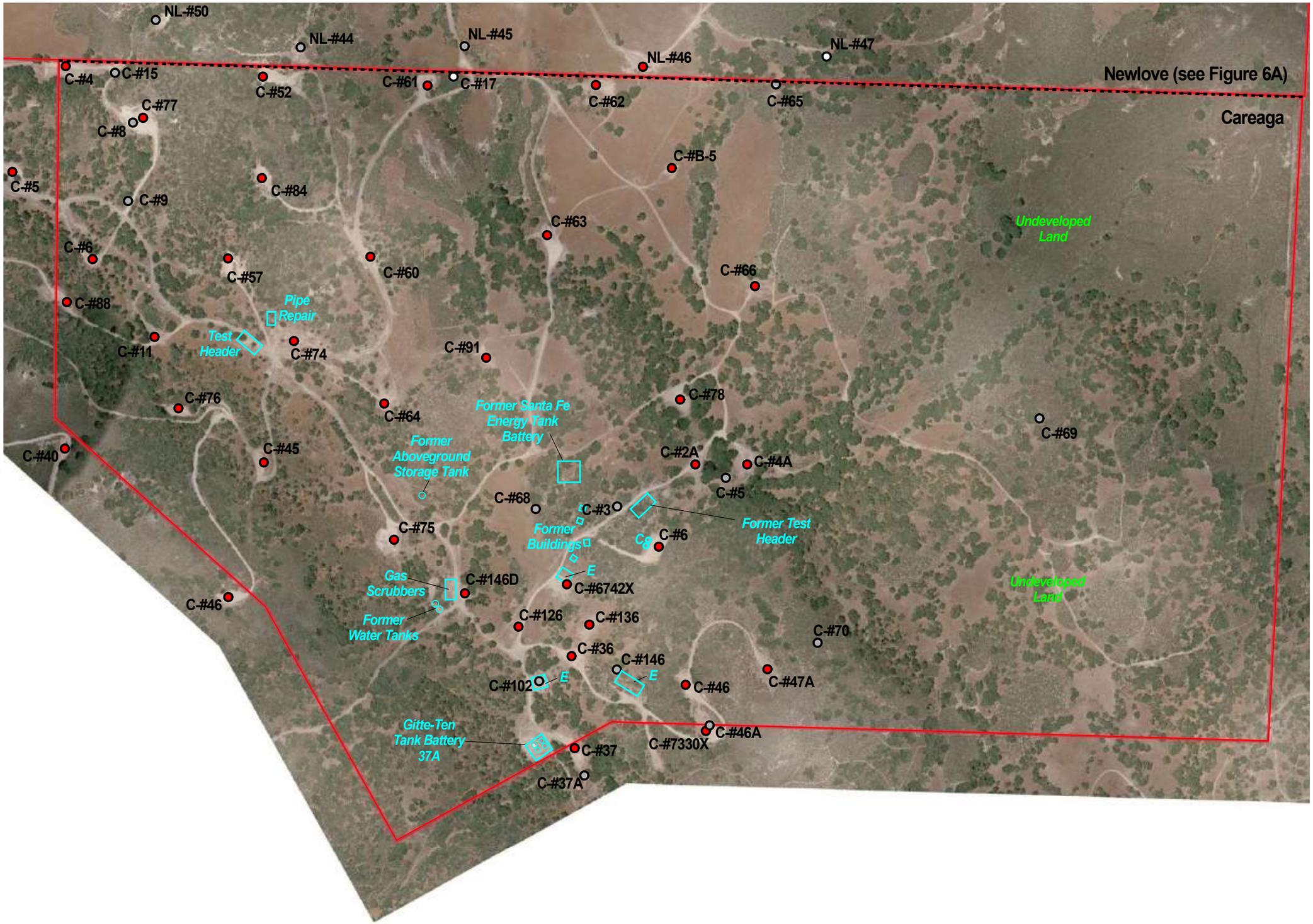
0' 400' 800'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/13/25

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

Figure 6B
Subject Property Detail Map - South (Careaga Area)



Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Pipe Repair — Site Feature

E - Equipment Storage Area
C - Chemical Usage/Poly Drum

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

NORTH

Approximate Scale
0' 250' 500'

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: GL	Project No: 23-148
Approved By: MS	Date: 8/13/25

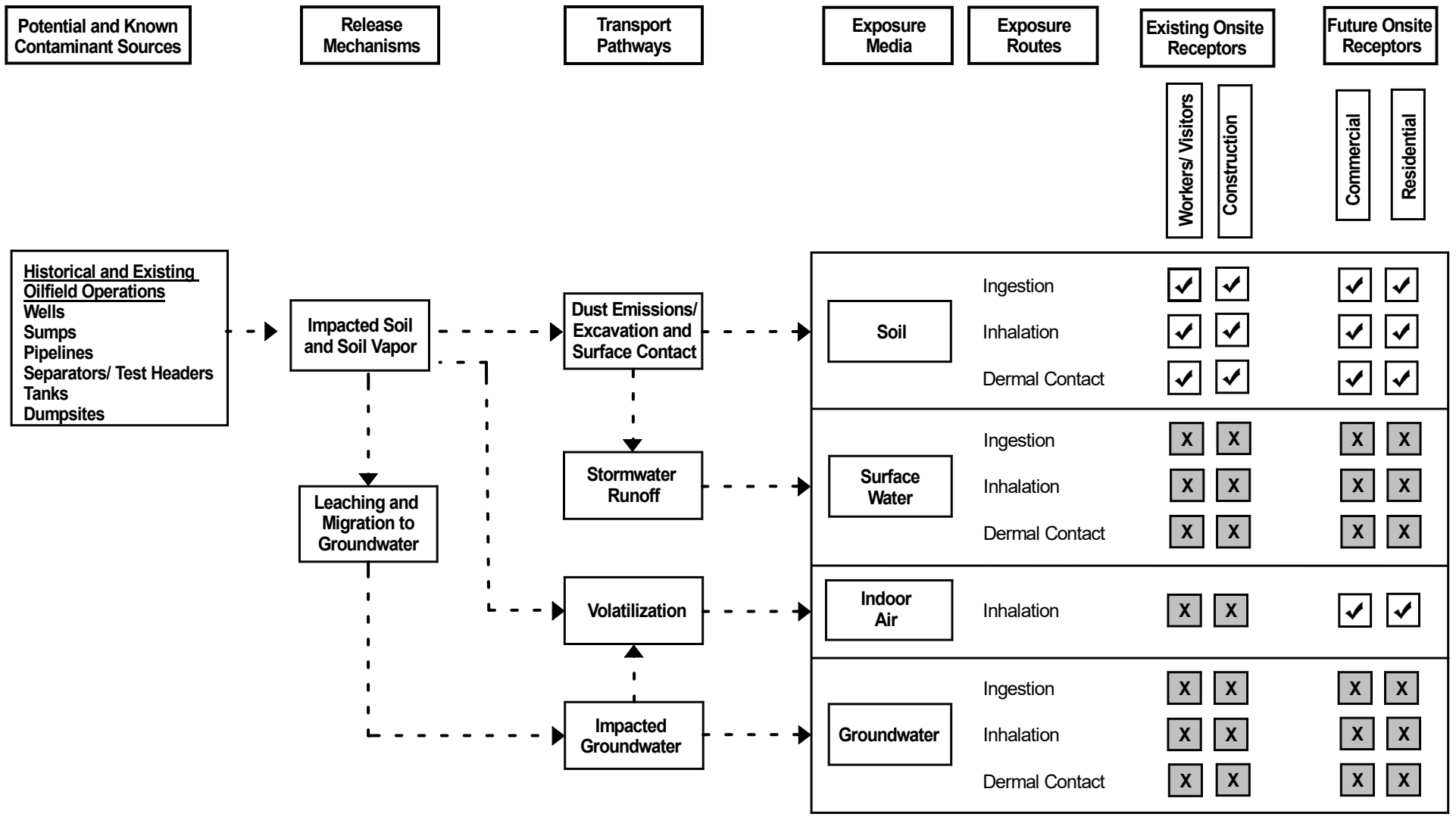


Figure 7
Conceptual Site Model Flowchart

Solomon Hills
Santa Barbara County, CA

Legend

- - → Potential pathway

✓ Exposure pathway may be complete for this receptor

X Exposure pathway is incomplete for this receptor

* Though shallow groundwater at the Subject Property could potentially be used as a drinking water source due to its municipal beneficial use designation, there are no drinking water wells at the Subject Property and it is unlikely that the groundwater beneath the Subject Property will be directly sourced for on-site use.

Waterstone Environmental, Inc.
2936 East Coronado Street
Anaheim, California 92806

Drafted By: SA	Version: 1.0
Approved By: MS	Date: 7-25-2025

Appendix A

Excerpts from Previous Reports

WATERSTONE ENVIRONMENTAL, INC.

2936 East Coronado Street * Anaheim, CA 92806
714-414-1122 * Fax: 714-414-1166
E:Mail: nberesky@waterstone-env.com

October 5, 2007

Randy Wheeler
Principal
Pacific Terra Holdings, LLC
3010 Old Ranch Parkway, Suite 450
Seal Beach, CA 90740

Jackson Washburn
President
BreitBurn Land Co.
515 South Flower St., Suite 4800
Los Angeles, CA

RE: Summary of Site Characterization Activities for BreitBurn Energy's Newlove and Careaga Leases at the Orcutt Oil Field, Orcutt, CA

Dear Sirs:

At your request, Waterstone Environmental, Inc. (Waterstone) has prepared this summary report of site characterization activities Waterstone performed at two of BreitBurn Energy's leases located in the Orcutt Oilfield. Waterstone performed soil sampling in and adjacent to over 100 oilfield features located on the Newlove and Careaga Leases (Subject Property) to evaluate environmental conditions and determine whether remedial action is required.

Introduction

The Orcutt Hill Oilfield is located in the Santa Maria Basin in the northwestern portion of Santa Barbara County, approximately 10 miles south of Santa Maria, California. The Orcutt Hill Oilfield consists of over 10,000 acres and includes the following fees/leases:

- Pinal Fee
- Hobbs Fee
- Dome Fee
- Kaiser Fee
- Elasser Fee
- Folsom Fee
- Newlove Fee
- Careaga Fee
- Fox Lease
- Hartnell-Squires Lease
- Harris-Graciosa Lease
- Cal Coast Lease

This report includes an evaluation of the Newlove and Careaga leases only.

All of the properties are located west of Highway 101 as shown on Figure 1. The main entrance to the Orcutt Hill area oilfield is on Pinal Grade Road, accessed from the north along Rice Ranch Road. The Newlove Fee is located in the central portion while the Careaga Fee is located in the southwestern portion of the Orcutt Hill Oilfield.

At the time of Waterstone's sampling activity in 2006, the Subject Property was used for oil production and cattle grazing. The surrounding area consists mostly of ungraded vacant land, oilfields, vineyards and ranch-style residences. The area is very hilly with steep slopes and densely vegetated canyons. There has been no historical use or storage of chemical compounds in these areas and they were not sampled during Waterstone's environmental investigation.

Improvements at the Subject Property consist of oil production facilities including associated wells, pipelines, buildings, storage areas, test sites, aboveground storage tanks, compressor plant, water injection facilities, and areas of historical use such as pits and sumps.

The following previous reports were used by Waterstone to determine appropriate sampling locations for this study:

- October 22, 2001, Harding ESE; *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.*

- September 6, 2004, Waterstone Environmental, Inc.; *Phase I Environmental Assessment Report, Orcutt Hills Oilfield Located Near Orcutt, California.*

Field Work

Waterstone's evaluation was based on the map shown in Figure 2 that was generated by Harding ESE in its report dated October 22, 2001, *Environmental Site Assessment, Orcutt Hill Area, Santa Barbara County, California.* This map shows the features listed on Table 1 that became the basis for choosing sampling locations. Waterstone and its subcontracted surveyor (Land Development Consultants of Anaheim, CA) performed 3 site visits to mark locations and survey features from the Harding ESE map that have no current means of identification onsite today.

Initially, the Newlove lease was evaluated. Two field episodes were performed to evaluate soil near wells, tank farms, compressors, and other oil field features that are listed on Table 1. The first field episode was to sample initial locations in worst-case scenario areas in June of 2006. After receipt of that data, a second sampling episode was performed to provide additional stepout locations based on the first set of analytical results. The Careaga lease was sampled in December 2006. The features sampled are shown on Table 1. Sampling locations were limited to topographically accessible areas and worst case scenario areas where chemical compounds were know or suspected to have been used or stored in the past.

Samples were collected using a hand auger or GeoProbe direct-push soil sampling rig to collect undisturbed samples according to standard soil sampling protocols included as Attachment A.

Over 100 locations were sampled on the Newlove and Careaga leases and over 400 samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015M (full range)
- Volatile organic compounds (VOCs) by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Title 22 Metals by EPA Method 6000/7000 series
- Polychlorinated biphenyls by EPA Method 8082 (one sample from each of the dump, pit, sump, building, and transformer areas)
- Pesticides by EPA Method 8082 (one sample from each of the dump, pit, sump building, and transformer areas)

Sample locations are shown on Figure 3. Inset Areas 1, 2, 3, and 4 show detailed maps where specific sampling locations can be discerned.

Results

Sampling results for all samples analyzed for PCBs and pesticides indicate that none of these compounds were detected in the 24 samples that were analyzed. Analytical results for TPH, VOCs, and SVOCs are shown on Table 1. Metals results are shown on Table 2.

TPH results higher than 3500 parts per million (ppm) are shaded in yellow on Table 2 for ease of review. Waterstone uses 3500 ppm as a threshold concentration for total TPH to conservatively evaluate what may be considered elevated if a risk assessment were performed. Only 14 of the 437 samples (3%) analyzed contained total TPH in excess of 3500 ppm and only 6 of these are over 10,000 ppm for total TPH.

TPH in excess of 3500 ppm was detected at the 10 following features:

- 3 of 37 oil wells sampled (all 3 on Careaga)
- 1 of 12 locations sampled at compressor, condensate, caustic, or injection plant locations (the 1 is on Careaga)
- 1 of 1 location at the fuel loading station at Careaga
- 2 of 22 locations sampled at pits, dumps, and sumps (both on Newlove)
- 2 of 23 locations sampled at current and former aboveground tanks
- 1 of 6 locations sampled at blow casings, pigs, or test headers.

VOC and SVOC concentrations were mostly not detected. Where these compounds were detected, they were commonly associated with elevated TPH. Metals concentrations were not detected at concentrations above background levels. Laboratory analysis data sheets have not been attached to this summary report but can be provided on request.

Conclusions

Based on Waterstone's investigation, the following conclusions can be made:

- TPH has been detected at 3% of the sampled features at concentrations that may require some future action.
- Future property use will dictate the need and scope of any further assessment or remedial activities.
- Sampling results were biased because all sampling occurred in known or suspected areas of former chemical use and storage. Many areas of the site that have steep slopes or dense vegetation were not sampled and do not appear to have been used in the past for chemical use and storage.

Please call me if you have any questions.

Sincerely,

Nancy Beresky, PG 7965
Principal Hydrogeologist
Waterstone Environmental, Inc.

Attachments: Tables 1, 2, 3
Figures 1, 2, 3 and Insets 1, 2, 3, 4
Attachment A

Table 1
2006 Features Sampled
on the Newlove and Careaga Leases
BreitBurn Energy - Orcutt Oil Field
Orcutt, CA

Sampled Features	Abbreviation for Sample ID	# of Features	# of Borings
Newlove Lease Sampling:			
Auto Dump	AD-	3	3
Blow Case	BC-	2	2
Buildings	B-	1	1
Caustic Plant AST	CPA-	2	2
Cement Pits	CP-	2	2
Condensate Plant	CON-	2	2
Discharge Point	DP-	2	2
Dumps	D-	4	3
Former Tanks	FT-	2	2
Gas Scrubber	GS-	2	2
Injection Plant	IP-	4	4
Injection Plant Valves	IPV-	2	2
Lube Oil Tank	LOT-	1	1
Oil Mixing Pit	OMP-	7	7
Pig	P-	2	2
Sumps	S-	4	4
Tank Battery	TB-	4	6
Test Header	TH-	2	2
Transformers	T-	5	5
Trash Pits	TP-	1	1
Wells	W#__-	15	15
Total		***69***	***70***
Careaga Lease (CL) Sampling:			
Brea	B-	1	2
Compressor Plant	CL-CPlant-	1	2
Drainage Way	DR1-	1	1
Drum Storage	CL-DS-	1	2
Dump	CL-D	1	1
FRM Energy Battery	CL-FEB-	1	2
Fuel Loading	FI-	1	1
Gas AST	CL-GAST-	1	1
Sump	CL-S-	1	1
Tank Farm	CL-TF-	3	9
Wells	CL-W#___-	22	13
Total		***34***	***35***

Table 2
2006 Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

on Subject Property

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
AD - 1	7/20/2006	2	6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	5.3	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	5.9	ND	ND	ND	---	---	---	---
AD - 2		2	6	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	6	ND	ND	ND	---	---	---	---
AD - 3		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	5.3	ND	ND	ND	---	---	---	---
B - 1	7/21/2006	1	12	2.8	ND	ND	---	---	---	---
		3	22	ND	ND	8.4	All compounds Not Detected		All compounds Not Detected	
		5	16	4.8	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	28	ND	2.2	20	---	---	---	---
BC - 1	6/14/2006	1	430	ND	200	221	---	---	---	---
		3	4000	640	2080	1279	---	---	---	---
		5	4100	913	2090	1062	1,1,2,2-Tetrachloroethane 1,2,4-Trimethylbenzene Ethylbenzene Isopropylbenzene Naphthalene n-Butylbenzene n-Propylbenzene sec-Butylbenzene	95 43 16,000 1,900 320 100 10,000 660	---	---
BC - 2	6/15/2006	1	ND	ND	ND	ND	All compounds Not Detected		---	---
		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---

Table 2
2006 Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CON - 1	7/21/2006	3	9.1	ND	ND	ND	---	---	---	---
		5	12	ND	ND	1.9	---	---	---	---
		10	7.7	2.7	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CON - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	6	ND	ND	ND	---	---	---	---
		15	5.4	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 1	7/19/2006	2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
CP - 2	7/20/2006	2	19	ND	ND	ND	---	---	---	---
		5	13	ND	ND	ND	---	---	---	---
		10	23	4	ND	7.8	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
CPA - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	20	ND	ND	4.1	All compounds Not Detected		All compounds Not Detected	
		15	17	ND	ND	11.8	---	---	---	---
CPA - 2		3	180	ND	ND	141	---	---	---	---
		5	19	ND	ND	13.8	All compounds Not Detected		All compounds Not Detected	
		10	8.3	ND	ND	1.8	---	---	---	---
		15	22	ND	ND	17.5	---	---	---	---

Table 2
2006 Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
D - 1	7/20/2006	2	7.2	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	5.2	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
D - 2		2	26	ND	2.1	19.7	---	---	---	---
		5	30	ND	4.4	21.2	---	---	---	---
		10	450	ND	170	268	---	---	---	---
		15	48	ND	24.7	48.2	All compounds Not Detected		All compounds Not Detected	
		20	2700	83	1470	1134	---	---	---	---
D - 4	7/18/2006	2	14	11	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	7.1	ND	ND	ND	---	---	---	---
		15	10	6.2	ND	ND	---	---	---	---
		19	5.2	ND	ND	ND	---	---	---	---
DP - 1	6/13/2006	1	5	ND	ND	ND	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
DP - 2		1	300	ND	152	145.8	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
FT - 1	7/19/2006	3	ND	ND	ND	ND	---	---	---	---
		5	6.2	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
FT - 2		3	26	ND	2.5	17.4	---	---	---	---
		5	20	ND	ND	12.2	---	---	---	---
		10	24	ND	ND	8.9	All compounds Not Detected		All compounds Not Detected	
		15	21	ND	ND	8.6	---	---	---	---

Table 2
2006 Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
GS - 1	6/14/2006	3	15	ND	ND	ND	---	---	---	---
		5	19	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
GS - 2		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 1	6/14/2006	3	2300	23	860	1390	---	---	---	---
		5	54	ND	ND	34.8	---	---	---	---
		10	ND	ND	15.2	101	---	---	---	---
		15	130	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
IP - 2		3	460	6.1	119.6	331	---	---	---	---
		5	470	ND	108	355	All compounds Not Detected		All compounds Not Detected	
		10	33	ND	ND	7.7	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 3		3	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	23	ND	ND	5.4	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IP - 4		3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		15	ND	ND	ND	ND	---	---	---	---
IPV - 1	6/14/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	11	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
IPV - 2		3	18	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		5	17	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	30	ND	ND	8.1	---	---	---	---

Table 2
2006 Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
LOT - 1	7/18/2006	1	1400		470	853	---	---	---	---
		3	34000	2130	17200	14300	1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene p-Isopropyltoluene Toluene	270 69 100 300 67 500 130 95 280 33 120	---	---
		5	6400	969	3780	1600	---	---	---	---
OMP - 1		2	8900	731	4210	3930	1,3,5-Trimethylbenzene	2	All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 2		2	290	ND	113.8	176.1	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
OMP - 3		2	5.5	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND				
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
OMP - 4		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
	6/12/2006									

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
OMP - 5		2	ND	ND	ND	ND	---	---	---	---
		5	11	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 6		2	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	1,2-Dibromo-3-chloropropane	17	All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
OMP - 7		2	11	ND	ND	ND	---	---	---	---
		5	9.5	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
P - 1	7/18/2006	1	100	15.6	42	43.3	---	---	---	---
		3	8.1	5.3	ND	ND	All compounds Not Detected		---	---
		5	5.5	ND	ND	ND	---	---	---	---
P - 2	7/21/2006	1	25	ND	ND	4.2	---	---	---	---
		3	ND	ND	ND	ND	All compounds Not Detected		---	---
		5	47	ND	ND	29.4	---	---	---	---
S - 1	6/14/2006	5	23	ND	ND	12.7	---	---	---	---
		10	28	ND	9.6	ND	---	---	---	---
		15	40	ND	3.6	13.5	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 2		5	24	ND	ND	12.2	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
S - 3		5	310	ND	85.6	219	---	---	---	---
		10	370	6.8	93.2	260	All compounds Not Detected		All compounds Not Detected	
		15	38	ND	ND	6.1	---	---	---	---
		20	22	ND	ND	ND	---	---	---	---

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Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
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Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
S - 4	6/13/2006	5	ND	ND	ND	ND	---	---	---	---
		10	24	ND	ND	3.7	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		20	ND	ND	ND	ND	---	---	---	---
S - 8	7/19/2006	5	160	ND	29.6	117	---	---	---	---
		10	49	ND	7.9	37	---	---	---	---
		15	28	ND	1.9	22	---	---	---	---
		20	16	ND	ND	6	All compounds Not Detected		All compounds Not Detected	
S - 9		5	170	ND	10	145	---	---	---	---
		10	34	ND	8.1	23.5	All compounds Not Detected		All compounds Not Detected	
		15	23	ND	2.2	13.9	---	---	---	---
		20	ND	ND	ND	ND	---	---	---	---
T - 1	7/18/2006	surface	190	ND	60.9	117	---	---	---	---
		1	44	ND	ND	16.3	---	---	---	---
		3	60	ND	ND	19.3	---	---	---	---
T - 2		surface	49	ND	ND	37.3	---	---	---	---
		1	220	ND	27.5	185.5	---	---	---	---
		3	25	ND	ND	5.2	---	---	---	---
T - 3		surface	530	ND	187.7	331	---	---	---	---
		1	180	2.4	64	108.8	---	---	---	---
		3	330	3.9	95.6	226	---	---	---	---
T - 4		surface	14	ND	ND	3.1	---	---	---	---
		1	10	ND	ND	ND	---	---	---	---
		3	10	ND	ND	ND	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
T - 5		surface	330	ND	238	91	---	---	---	---
		1	420	ND	108	285	---	---	---	---
		3	20	ND	ND	ND	---	---	---	---
TB - 1	6/13/2006	3	46	ND	8.8	32.1	---	---	---	---
		5	17	ND	ND	10	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 2		3	120	ND	31.7	86	---	---	---	---
		5	ND	ND	ND	ND	---	---	---	---
		10	5.5	ND	ND	ND	---	---	---	---
		15	5.6	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 3		3	8900	1270	4450	3230	---	---	---	---
		5	440	50.8	207	181	---	---	---	---
		10	8.7	ND	ND	ND	---	---	---	---
		15	16	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
TB - 4		3	36	ND	3.9	23.5	---	---	---	---
		5	17	ND	ND	9.1	---	---	---	---
		10	240	ND	76.4	160	All compounds Not Detected		All compounds Not Detected	
		15	6.8	ND	ND	ND	---	---	---	---
TB - 5	6/15/2006	3	ND	ND	ND	ND	---	---	---	---
		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
TB - 6		3	18	ND	1.8	9.4	All compounds Not Detected		All compounds Not Detected	
		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	---	---	---	---
		15	ND	ND	ND	ND	---	---	---	---
TH - 1	7/18/2006	1	14	ND	ND	2.2	All compounds Not Detected		---	---
		3	6.4	ND	ND	ND	---	---	---	---
		5	8.7	2.4	ND	ND	---	---	---	---
TH - 2		1	47	ND	12.6	28.4	---	---	---	---
		3	8.7	ND	ND	ND	---	---	---	---
		5	9	ND	ND	ND	All compounds Not Detected		---	---

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			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
TP - 1	7/20/2006	2	1100	ND	375	756	---	---	---	---
		5	3500	ND	1040	2400	---	---	---	---
		10	330	ND	22.3	279	All compounds Not Detected		All compounds Not Detected	
		15	110	ND	19.5	80.9	---	---	---	---
		20	86	ND	9.4	66.8	---	---	---	---
W - 1 - 37	6/16/2006	5	5.5	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	6.5	ND	ND	ND	---	---	---	---
W - 2 - 100		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 3 - 40		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 4 - 108	6/15/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 5 - 70		5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 6 - 86		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 7 - 27		5	1900	14	929	905	---	---	---	---
		10	1600	295	790	517	Naphthalene p-Isopropyltoluene	470 69	2-Methylnaphthalene	1,100
W - 8 - 82		5	17	11	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 9 - 109		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 10 - 48	6/16/2006	5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	26	ND	ND	17.8	---	---	---	---
W - 11 - 99		5	11	ND	ND	1.9	---	---	---	---
		8.5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 12 - 102	6/15/2006	5	ND	ND	ND	ND	---	---	---	---
		10	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 13 - 94		5	ND	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
		10	ND	ND	ND	ND	---	---	---	---
W - 14 - 60	6/16/2006	5	5.5	ND	ND	ND	---	---	---	---
		10	7.7	ND	ND	ND	All compounds Not Detected		All compounds Not Detected	
W - 15 - 61	7/18/2006	5	27	ND	ND	ND	---	---	---	---
		10	43	6.8	ND	6.1	All compounds Not Detected		All compounds Not Detected	

on Subject Property

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			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-37AG	12/5/2006	10	<5.0	<1.8	<1.8	<1.8	All	...not detected	All compounds...	...not detected
CL-37A-G	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	Phenol	460
CL-B1-1	11/29/2006	3	16	<1.8	<1.8	11.7	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-B1-2	11/29/2006	3	17	<1.8	<1.8	10.3	All compounds...	...not detected	All compounds...	...not detected
		5	300	<18	53	232	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-CPlant1-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
CL-CPlant-3	12/4/2006	3	210	<1.8	138.3	68	---	---	---	---
		5	140	<1.8	103.4	36.7	---	---	---	---
		10	99	<1.8	72.1	24.8	---	---	---	---
		15	12000	3130	8200	240	sec-Butylbenzene 1,1,2,2-Tetrachloroethane	50 74	All compounds...	...not detected
CL-D1-1	12/4/2006	3	110	<3.6	13.7	87.9	All compounds...	...not detected	---	---
		5	220	<3.6	47.8	165	---	---	---	---
		10	72	<3.6	13.7	52.2	---	---	---	---
		15	56	<3.6	15.9	37.1	---	---	---	
CL-DR1-1	12/1/2006	5	5.8	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	9.9	3.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		20	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-DS1-1	12/1/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	6.9	<1.8	<1.8	<1.8	---	---	---	---
		15	9.3	<1.8	<1.8	3.6	---	---	---	---

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			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-DS1-2	12/1/2006	3	<10.0	<3.6	<3.6	<3.6	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	40	<1.8	5.3	32.3	---	---	---	---
CL-F1-1	12/1/2006	1	14000	1340	8100	4120	---	---	---	---
		3	23	<3.6	<3.6	<3.6	1,1-Dichloropropene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Propylbenzene o-Xylene Toluene	2 34 10 38 25 13 40 15 15 6.1 24	All compounds...	...not detected
		5	1100	247	611	260	---	---	---	---
		10	6.4	2.2	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-1	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	5.8	<1.8	<1.8	3.9	---	---	---	---
		8	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-FEB1-2	12/6/2006	3	<5.0	<1.8	<1.8	<1.8	Chlorobenzene Benzene	12 2.5	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-GAST1-1	12/1/2006	3	6.6	2.1	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	520	<9.0	173	330	---	---	---	---
		10	12	<3.6	<3.6	<3.6	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-S1-1	12/1/2006	3	1100	13	506	585	---	---	---	---
		5	810	166	419	228	Naphthalene	29	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-1	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-2	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---

on Subject Property

Table 2
2006 Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-TF1-3	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF1-4	11/29/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-1	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-2	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF2-3	12/4/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
on Subject Property										
CL-TF3-1	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-TF3-2	12/5/2006	3	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Phenol	380
		5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		15	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-136G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	420
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-146DG	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-147G	12/7/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	27	<1.8	14.7	3.8	---	---	---	---
CL-W-46G	12/6/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-47AG	12/6/2006	5	5.8	<1.8	<1.8	<1.8	---	---	---	---
		10	8.5	<1.8	<1.8	1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	4,200

Table 2
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Orcutt Oil Field
Orcutt, CA

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Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range						
			C6-C40	C6-C13	C14-C23	C24-C40	Compound	Concentration	Compound	Concentration
CL-W-47P	12/4/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-61P	12/5/2006	5	12000	2690	6200	2820	1,2,4-Trimethylbenzene	1,100	2-Methylnaphthalene	5,500
							1,3,5-Trimethylbenzene	55		
							Ethylbenzene	41		
							Isopropylbenzene	73		
							Naphthalene	1,500	Bis(2-ethylhexyl)phthalate	6,000
							n-Propylbenzene	180		
							p-Isopropyltoluene	310		
							sec-Butylbenzene	240		
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-62P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	---	---	---	---
		10	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	3,400
CL-W-63P	12/5/2006	10	7100	2354	3600	1107	---	---	---	---
		15	12000	3997	6130	2130	1,2,4-Trimethylbenzene	270	Naphthalene	17,000
							1,3,5-Trimethylbenzene	200		
							Ethylbenzene	2,900		
							Isopropylbenzene	5,900		
							m,p-Xylenes	370		
							Naphthalene	14,000		
							n-Butylbenzene	1,400		
							n-Propylbenzene	1,800		
							o-Xylene	140		
							p-Isopropyltoluene	690		
							sec-Butylbenzene	5,100		
							tert-Butylbenzene	290		
CL-W-74P	12/6/2006	5	5.2	<1.8	<1.8	3.3	All compounds...	...not detected	All compounds...	...not detected
		10	5.5	<1.8	<1.8	3.4	---	---	---	---

on Subject Property

Table 2
2006 Soil Analytical Results - BreitBurn - Newlove & Careaga Leases
Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Semi-Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

shade denotes TPH results 3500 ppm or higher

Sample ID	Sample Date	Sample Depth (feet)	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (ug/kg)		Semi-Volatile Organic Compounds EPA Method 8270C (ug/kg)	
			Total TPH	Carbon Chain Range			Compound	Concentration	Compound	Concentration
			C6-C40	C6-C13	C14-C23	C24-C40				
on Subject Property										
CL-W-78P	12/6/2006	5	1100	391	408	298	---	---	---	---
		10	240000	86000	116000	37000	1,2,4-Trimethylbenzene Benzene Ethylbenzene Isopropylbenzene m,p-Xylenes Naphthalene n-Butylbenzene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	37,000 12,000 29,000 19,000 23,000 19,000 6,000 19,000 8,200 12,000	2-Methylnaphthalene	24,000
		15	6600	1973	3440	1210	---	---	---	---
CL-W-91P	12/5/2006	5	<5.0	<1.8	<1.8	<1.8	All compounds...	...not detected	All compounds...	...not detected
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-92P	12/6/2006	5	<5.0	<1.8	<1.8	3.4	All compounds...	...not detected	Bis(2-ethylhexyl)phthalate	660
		10	<5.0	<1.8	<1.8	<1.8	---	---	---	---
CL-W-93P	12/7/2006	5	49	<3.6	<3.6	35.3	All compounds...	...not detected	All compounds...	...not detected
		10	19	<3.6	<3.6	8.2	---	---	---	---

--- = Not Analyzed ND=Not Detected
TPH - total petroleum hydrocarbons
ug/kg - micrograms per kilogram or parts per billion
mg/kg - milligrams per kilogram or parts per million

Table 3
2006 Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
AD-1-2	07/20/2006	2	ND	24	ND	ND	23	2.6	8.3	5.3	0.041	ND	16	ND	21	35
AD-2-10	07/20/2006	10	2.9	21	ND	0.73	13	1.7	5	2.6	0.02	ND	8.8	ND	14	21
AD-3-10	07/20/2006	10	ND	29	ND	ND	10	ND	3.9	3.6	0.027	ND	2.7	ND	9.6	13
B-1-1	07/21/2006	1	9.4	65	0.58	ND	38	4.9	12	7.7	0.12	2.1	22	ND	43	39
CON-1-10	07/21/2006	10	4.3	37	ND	ND	29	3.6	8.5	4.2	0.029	ND	24	ND	20	31
CP-1-10	07/19/2006	10	2.6	28	ND	ND	8.7	2	4.4	2.3	ND	ND	7.9	ND	10	13
CP-2-15	07/20/2006	15	7	59	ND	ND	37	4.4	15	6.2	0.037	ND	19	ND	32	47
CPA-1-10	07/19/2006	10	5.3	70	ND	0.5	27	3.5	9.2	4.9	0.033	ND	18	ND	30	31
CPA-2-5	07/19/2006	5	4	52	ND	0.55	16	2.5	5.9	3.2	ND	ND	13	ND	19	19
D-1-20	07/20/2006	20	3.1	45	ND	ND	12	2.1	6.1	4.7	0.03	3.5	11	ND	13	31
D-2-15	07/20/2006	15	7	40	0.52	2.2	61	25	21	4.1	0.13	3.4	31	ND	35	150
D-4-5	07/18/2006	5	ND	28	ND	ND	5.8	ND	4.1	4.8	ND	ND	2.6	ND	8.7	9.3
DP-1-3	06/13/2006	3	2.7	34	ND	0.56	9.3	1.9	4.2	3.2	ND	ND	8.5	ND	11	16
DP-2-3	06/13/2006	3	3	53	ND	ND	5.6	1.6	2.8	3.8	ND	ND	5.8	ND	9.2	9.2
FT-1-5	07/19/2006	5	ND	4.4	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	2.6	11
FT-2-10	07/19/2006	10	3.5	48	ND	ND	13	3.1	6.2	3.6	ND	ND	10	ND	16	17
GS-1-10	06/14/2006	10	2.7	24	ND	ND	4.4	1.8	3.2	2.5	ND	ND	4.9	ND	6.8	14
GS-2-15	06/14/2006	15	2.3	18	ND	ND	3.8	1.1	2.7	ND	ND	ND	3.2	ND	5.6	21
IP-1-15	06/14/2006	15	ND	20	ND	0.74	3.8	1.3	3.6	2.3	ND	ND	4.6	ND	6	25

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SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
IP-2-5	06/14/2006	5	ND	37	ND	ND	1.9	ND	3.2	3	0.033	ND	2.4	ND	4.7	7.8
IP-3-3	06/14/2006	3	2.5	22	ND	ND	4.7	ND	2.9	2.2	ND	ND	4.8	ND	6.3	38
IP-4-10	06/14/2006	10	2.8	25	ND	0.56	5.3	1.8	3.3	2.8	ND	ND	6.5	ND	7.4	42
IPV-1-5	06/14/2006	5	ND	15	ND	ND	1.4	2.9	ND	ND	ND	ND	4.6	ND	2.7	ND
IPV-2-3	06/14/2006	3	ND	22	ND	ND	3.1	1.5	2.7	ND	ND	ND	3.5	ND	4.9	8.4
LOT-1-3	07/18/2006	3	4.1	26	ND	ND	9.7	2.7	5.2	3.1	ND	ND	12	ND	18	15
OMP-1-2	06/12/2006	2	ND	430	ND	ND	12	1.8	31	11	0.14	ND	18	ND	21	94
OMP-2-2	06/12/2006	2	ND	8.9	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	2.1	ND
OMP-3-20	06/12/2006	20	ND	16	ND	ND	5.3	ND	2.1	2.3	0.02	ND	4.8	ND	5.7	8.1
OMP-4-5	06/12/2006	5	3.5	28	ND	ND	9.4	1.5	4.3	3.2	0.02	ND	7.1	ND	11	18
OMP-5-15	06/12/2006	15	4.9	20	ND	0.66	7.4	2	3.4	2.8	0.023	ND	6.7	ND	9.7	14
OMP-6-15	06/12/2006	15	2	39	ND	ND	13	1.5	7.5	4.9	0.042	3.1	4.7	ND	10	15
OMP-7-15	06/12/2006	15	2.7	25	ND	ND	7.8	1.6	2.8	2.9	0.02	ND	4.3	ND	12	8.5
S-1-15	06/14/2006	15	2.3	33	ND	0.98	5.4	1.9	6.2	3	ND	ND	9	ND	9.6	15
S-2-5	06/14/2006	5	3.7	33	ND	0.53	5.9	2.8	4.9	2.9	ND	ND	7.7	ND	9.7	13
S-3-10	06/14/2006	10	3.8	37	ND	0.74	5.4	2.3	5.3	2.6	ND	ND	9.2	ND	10	11
S-4-15	06/13/2006	15	13	32	ND	ND	35	4.1	10	3.3	0.029	4.1	25	ND	25	58

Table 3
2006 Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
S-8-20	07/19/2006	20	5.9	65	ND	0.61	32	4.2	13	6.3	0.029	ND	21	ND	35	44
S-9-10	07/19/2006	10	2.3	29	ND	ND	7.8	1	3.1	2	ND	ND	5.9	ND	12	14
TB-1-15	06/13/2006	15	6.2	25	ND	ND	25	2.7	9.7	3	0.036	ND	28	ND	16	43
TB-2-15	06/13/2006	15	2.8	45	ND	ND	27	2.2	9.7	4	ND	3.2	7.5	ND	20	29
TB-3-15	06/13/2006	15	2.1	26	ND	ND	22	1.9	9.2	2.5	ND	2.7	7.9	ND	12	30
TB-4-10	06/13/2006	10	14	89	ND	2.2	31	12	11	5.5	ND	3.9	40	ND	28	49
TB-5-5	06/15/2006	5	ND	12	ND	ND	4.4	ND	ND	ND	0.025	ND	2.5	ND	4.9	ND
TB-6-3	06/15/2006	3	ND	19	ND	ND	6.5	ND	2.4	2.5	ND	ND	2.3	ND	4.5	ND
TP-1-10	07/20/2006	10	3.6	43	ND	0.5	9.7	1.4	5.4	2.7	0.15	ND	12	ND	26	16
W-10-48-5	06/16/2006	5	ND	24	ND	ND	5.5	ND	3.6	2.5	ND	ND	3.9	ND	7	7.2
W-11-99-8.5	06/16/2006	8.5	ND	17	ND	ND	3.2	ND	ND	ND	ND	ND	4.4	ND	9.7	5.8
W-12-102-10	06/15/2006	10	2.3	33	ND	ND	4.5	1.3	3.8	2.7	ND	3.2	4.1	ND	7.2	8.7
W-1-37-5	06/16/2006	5	ND	55	ND	ND	4.5	ND	2.3	2.8	ND	ND	3.2	ND	7.3	ND
W-13-94-5	06/15/2006	5	ND	4.3	ND	ND	2.3	3.9	ND	ND	ND	ND	ND	ND	3.3	ND
W-14-60-10	06/16/2006	10	3.6	390	ND	0.71	16	ND	7	10	0.11	ND	4.3	ND	9	18
W-15-61-10	07/18/2006	10	7.9	54	ND	0.51	21	2	7.5	3.4	ND	2.6	15	ND	27	22
W-2-100-10	06/16/2006	10	ND	9.5	ND	ND	2.2	ND	ND	ND	ND	ND	2.7	ND	3.6	5.9
W-3-40-10	06/16/2006	10	ND	11	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	1.6	ND
W-4-108-5	06/15/2006	5	ND	28	ND	ND	5.5	1.1	2.8	2.4	ND	ND	4.5	ND	7.1	9.3
W-5-70-10	06/15/2006	10	ND	27	ND	ND	6.2	1.1	3.7	3	ND	ND	4.3	ND	6.8	11

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SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
W-6-86-5	06/15/2006	5	ND	17	ND	ND	2.7	ND	2	ND	ND	ND	ND	ND	3.4	5.7
W-7-27-10	06/15/2006	10	ND	20	ND	ND	3.6	ND	2.1	2.7	ND	ND	3.2	ND	4.8	5.2
W-8-82-10	06/15/2006	10	ND	20	ND	ND	2.6	ND	ND	2.1	ND	ND	ND	ND	2.1	ND
W-9-109-5	06/15/2006	5	ND	5.9	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	2.1	28
CL-37A-G	12/05/2006	5	ND	22	ND	ND	5.1	ND	2	2.2	ND	ND	4.3	ND	7.3	8.4
CL-B1-1	11/29/2006	3	ND	30	ND	ND	5.2	1.5	3.6	2.8	ND	ND	3.1	ND	6.7	12
CL-B1-2	11/29/2006	3	2	28	ND	ND	4.3	1.3	2.4	3	ND	ND	3	ND	6.3	6.4
CL-CPlant1-2	12/04/2006	20	5.5	34	ND	0.66	5.6	2.2	3.7	2.5	ND	2.4	4.9	ND	7.3	11
CL-CPlant-3	12/04/2006	15	9.9	23	ND	ND	5	2	2.7	2.2	ND	7.8	4.6	ND	8.4	10
CL-D1-1	12/04/2006	3	6.1	89	ND	0.57	10	1.4	9.4	14	0.037	5.7	6.5	ND	24	160
CL-DR1-1	12/01/2006	5	5.4	63	ND	ND	13	2.2	5	4.6	ND	2.8	7.3	ND	22	11
CL-F1-1	12/01/2006	3	3.4	92	ND	ND	8.5	1.8	5.3	5.6	ND	ND	6.4	ND	15	12
CL-FEB1-2	12/06/2006	3	ND	34	ND	ND	3.3	1.6	2.8	ND	ND	ND	3.2	ND	5.4	ND
CL-GAST1-1	12/01/2006	3	6.4	45	ND	ND	10	1.1	3.7	3.8	ND	3.5	4.5	ND	33	9.8
CL-S1-1	12/01/2006	5	2	20	ND	ND	3.1	ND	ND	2.2	ND	ND	ND	ND	6.8	ND
CL-TF1-1	11/29/2006	3	ND	13	ND	ND	2.2	ND	ND	2	ND	ND	ND	ND	3.3	ND
CL-TF1-2	11/29/2006	20	ND	26	ND	ND	5.9	ND	2.2	3.2	ND	ND	2.6	ND	5.3	7.8
CL-TF1-2	11/29/2006	3	ND	28	ND	ND	6.3	1.4	2.7	3.2	ND	ND	3.5	ND	7.7	8.6
CL-TF1-3	11/29/2006	3	ND	14	ND	ND	2.8	ND	2	ND	ND	ND	ND	ND	3.7	5.3
CL-TF1-4	11/29/2006	3	ND	27	ND	ND	4.3	1.2	2.3	2.8	ND	ND	2.1	ND	5.9	5.9

on Subject Property

Table 3
2006 Soil Analytical Results - Metals
BreitBurn - Newlove and Careaga Leases
Orcutt Oil Field
Orcutt, CA

SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH	Metals EPA Methods 6010B* & 7471A (mg/kg)													
			Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybde-num	Nickel	Selenium	Vanadium	Zinc
CL-TF2-2	12/04/2006	3	3.5	33	ND	ND	7	2.1	3.2	3.2	0.031	9.1	6.1	ND	9.2	15
CL-TF2-3	12/04/2006	3	2.4	19	ND	ND	3.7	1.1	ND	ND	ND	6.8	3.5	ND	4.9	8.1
CL-TF3-1	12/05/2006	3	ND	13	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	3.3	ND
CL-TF3-2	12/05/2006	3	ND	27	ND	ND	3	1.3	ND	ND	ND	2.9	2.1	ND	4.3	6
CL-W-136G	12/07/2006	5	ND	22	ND	ND	3	2.6	2.3	ND	ND	ND	3	ND	6.9	ND
CL-W-146DG	12/04/2006	5	ND	15	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	5.4	ND
CL-W-147G	12/07/2006	5	ND	16	ND	ND	5.3	1.1	ND	ND	ND	3.3	3.1	ND	7.7	5.7
CL-W-46G	12/06/2006	5	7.9	32	ND	3.2	11	5.3	2.2	2.6	ND	17	8.9	2.6	40	5.6
CL-W-47AG	12/06/2006	10	ND	12	ND	ND	4	ND	ND	2.2	0.035	ND	2.9	ND	6.3	5
CL-W-47P	12/04/2006	5	ND	15	ND	ND	2.7	ND	2	ND	ND	2.9	2.9	ND	4.3	9.8
CL-W-61P	12/05/2006	5	ND	22	ND	ND	2.8	ND	ND	ND	ND	ND	3.8	ND	7.2	ND
CL-W-62P	12/05/2006	10	ND	9.9	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	4.8	ND
CL-W-63P	12/05/2006	15	ND	15	ND	ND	1.7	ND	ND	ND	ND	ND	3.1	ND	5.7	ND
CL-W-74P	12/06/2006	5	4.7	37	0.75	ND	14	2.9	10	5.4	0.022	5.3	17	ND	13	28
CL-W-78P	12/06/2006	10	ND	12	ND	ND	2	1.2	ND	ND	ND	ND	4	ND	6.4	ND
CL-W-91P	12/05/2006	5	2.3	35	ND	ND	8.6	1.3	3.7	4.3	ND	ND	5.9	ND	11	8.9
CL-W-92P	12/06/2006	5	2.2	32	ND	6.1	9.5	2.6	2.1	ND	ND	15	4.4	ND	35	16
CL-W-93P	12/07/2006	5	4.9	52	ND	15	79	2.9	18	ND	0.024	5.9	51	ND	37	61

on Subject Property

* No concentrations of Silver, Thallium, or Antimony were detected in any of the sampled locations; therefore, these compounds are not included on this table.

ug/kg - micrograms per kilogram or parts per billion

mg/kg - milligrams per kilogram or parts per million

ND-Not Detected

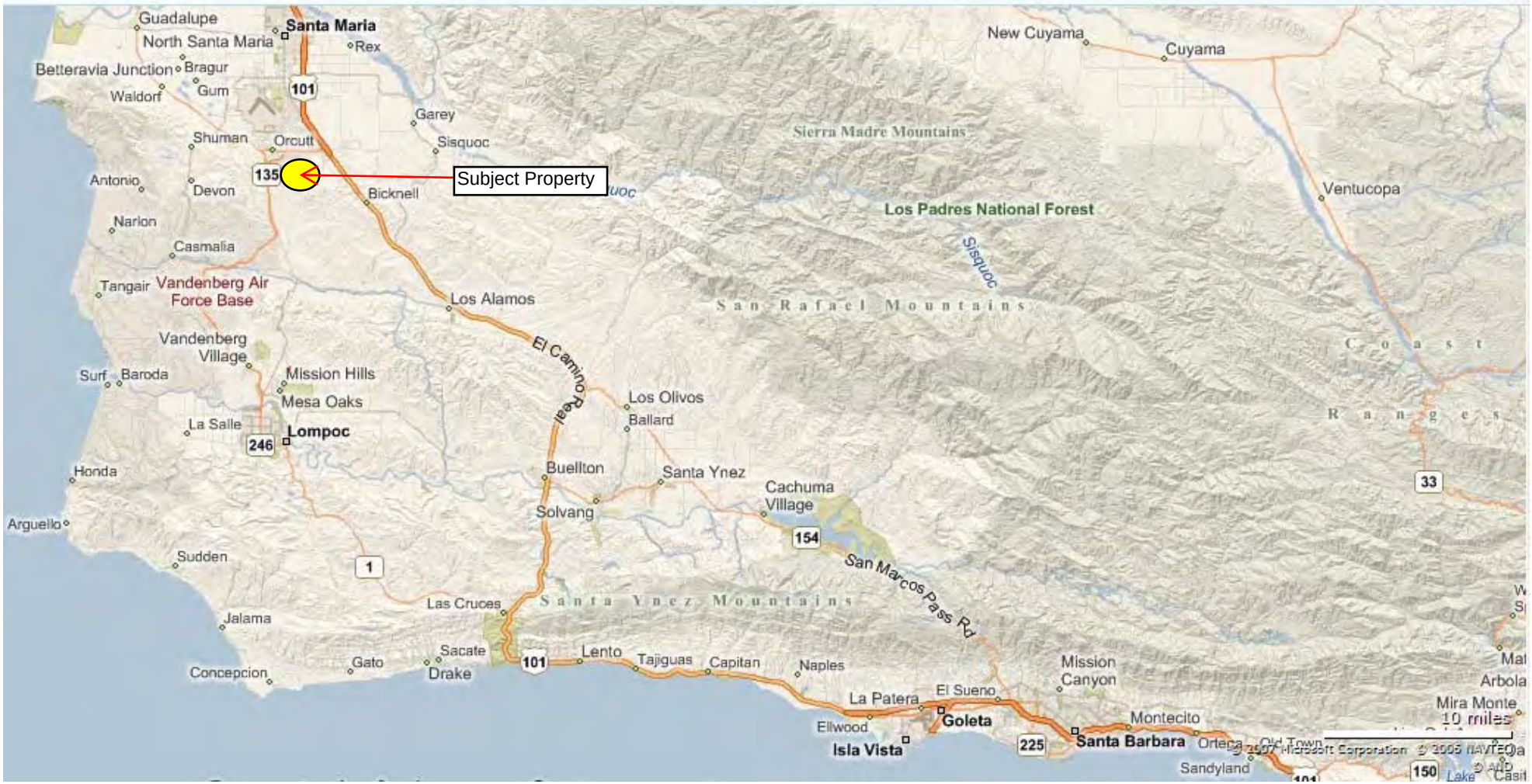
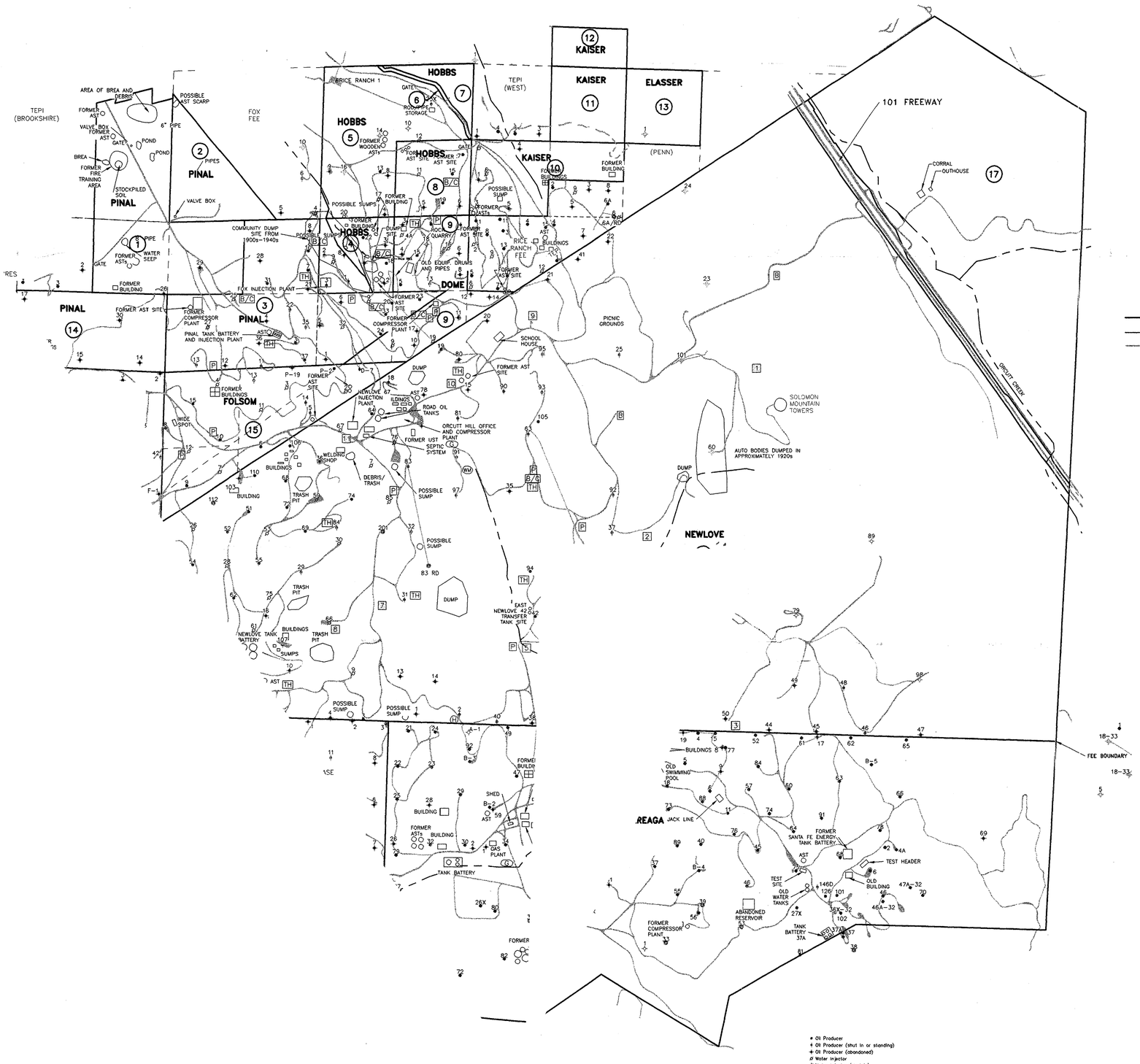


Figure 1

Orcutt Oil Field
Location Map
Newlove and Careaga Leases
Orcutt, CA

TR-31.DWG-10/19/00



LEGEND

- PARCEL BOUNDARY
- INTERMITTENT STREAM
- ROAD
- (5) PARCEL NUMBER
- OIL PRODUCER
- OIL PRODUCER (SHUT IN OR STANDING)
- OIL PRODUCER (ABANDONED)
- WATER INJECTOR
- WATER INJECTOR (SHUT IN)
- PLUGGED & ABANDONED (OIL SHOWS)
- PLUGGED & ABANDONED
- WATER INJECTOR (ABANDONED)
- PROPOSED LOCATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE
- [1] THREE SATELLITE DISHES
- [2] CONCRETE PAD
- [3] BRICK/CABLE DEBRIS
- [4] PICNIC AREA
- [5] WATER HOLE/TROUGH
- [6] SEPARATOR (CAREAGA SALES) & METER
- [7] 125-GALLON DEMULSIFIER TANK
- [8] ASPHALTIC MATERIAL ON PAD AND ON SLOPE TO SOUTH
- [9] USAF WEATHER STATION
- [10] RADIO TOWER AND CONCRETE BLOCK BUILDING
- [11] MICROWAVE STATION
- [B] BEEKEEPING
- [TH] TEST HEADER
- (G) GAS TRAP
- [P] PIG
- [B/C] BLOWCASE

PARCEL	FIGURE NO.	AREA (APPROXIMATE)
1	3	141.9 ACRES
2	4	50.5 ACRES
3	5	157.4 ACRES
4	7	24.4 ACRES
5	8	101.5 ACRES
6	9	3.0 ACRES
7	9	15.3 ACRES
8	10	40.2 ACRES
9	11	73.4 ACRES
10	12	61.2 ACRES
11	13	39.7 ACRES
12	14	19.7 ACRES
13	15	40.1 ACRES
14	16	81.5 ACRES
15	17	127.5 ACRES
16	18	4046.8 ACRES
17	27	436.4 ACRES

REFERENCES:
DAMES & MOORE (1995)
CALIFORNIA DEPARTMENT OF CONSERVATION (2000)
L & P CONSULTANTS (2001)
USGS (1974)

0 1000 Feet
SCALE

N W E S

Harding ESE
A MACTEC COMPANY
2171 CAMPUS DRIVE, SUITE 100
IRVINE, CA 92612

DWG BY	NMM
DATE	6/19/01
REV BY	BAR
REVISED	10/01

SITE MAP

NUEVO ENERGY COMPANY
ORCUTT HILL AREA
SANTA BARBARA COUNTY, CA.

FIGURE NO. 2

PROJECT NO. 640268

DATE PLOTTED: 10/19/01

FILE: NUEVO\ORCUTT HILL\0500-0601-SITE MAP

North Hills

Existing Facilities & Disturbances

Existing Use & Development Areas

Revisions

Print Date:
May 17, 2007

Picnic Grounds

Mt. Solomon Facility

Communications Facility

Historic Orcutt Schoolhouse

Oil Field Office

Oil Operations & Headquarters Offices

Orcutt Community Plan Area

Inset 1

Inset 2

Inset 3

Inset 4

CALIFORNIA 135

101

Legend

- Amendment Area Boundary - Orcutt Fee (APN - 101-020-074) Source: LDC (July 2006)
- Oil Operations & Headquarters Offices
- Existing Dirt Roads
- Major Highways
- Proposed Circulation - Source: Calthorpe (April 2007)
- Existing Facility
- Development Area Footprint - Source: Calthorpe (March 2007)
- Potential Rural Lot Areas - Source: Calthorpe (March 2007)
- Orcutt Community Plan Area - Source: Digitized by FORMA
- Santa Barbara Aerial Source: AirPhotoUSA (Flown Sept. 2004)
- Waterstone Sample Points - Source: LDC (May 2007) *(Labels in Red)*

Wells

- SX Locations - Source: BreitBurn (Aug. 2006)
- Confirmed Well Locations - Source: LDC (March 2007)
- Unconfirmed Well Locations - Source: Breitburn (March 2006)

Subsurface Exploration - Source: Seward (May 2007)

- CPT Boring
- Hollow - Stem Boring
- Geologic Test Pit
- Geotech Test Pit
- Bucket - Auger Boring
- Fault Trench

Figure 3

Index Map Showing Environmental and Geotechnical Sampling Locations

INSETS 1-4
ARE SHOWN ON THE
FOLLOWING PAGES

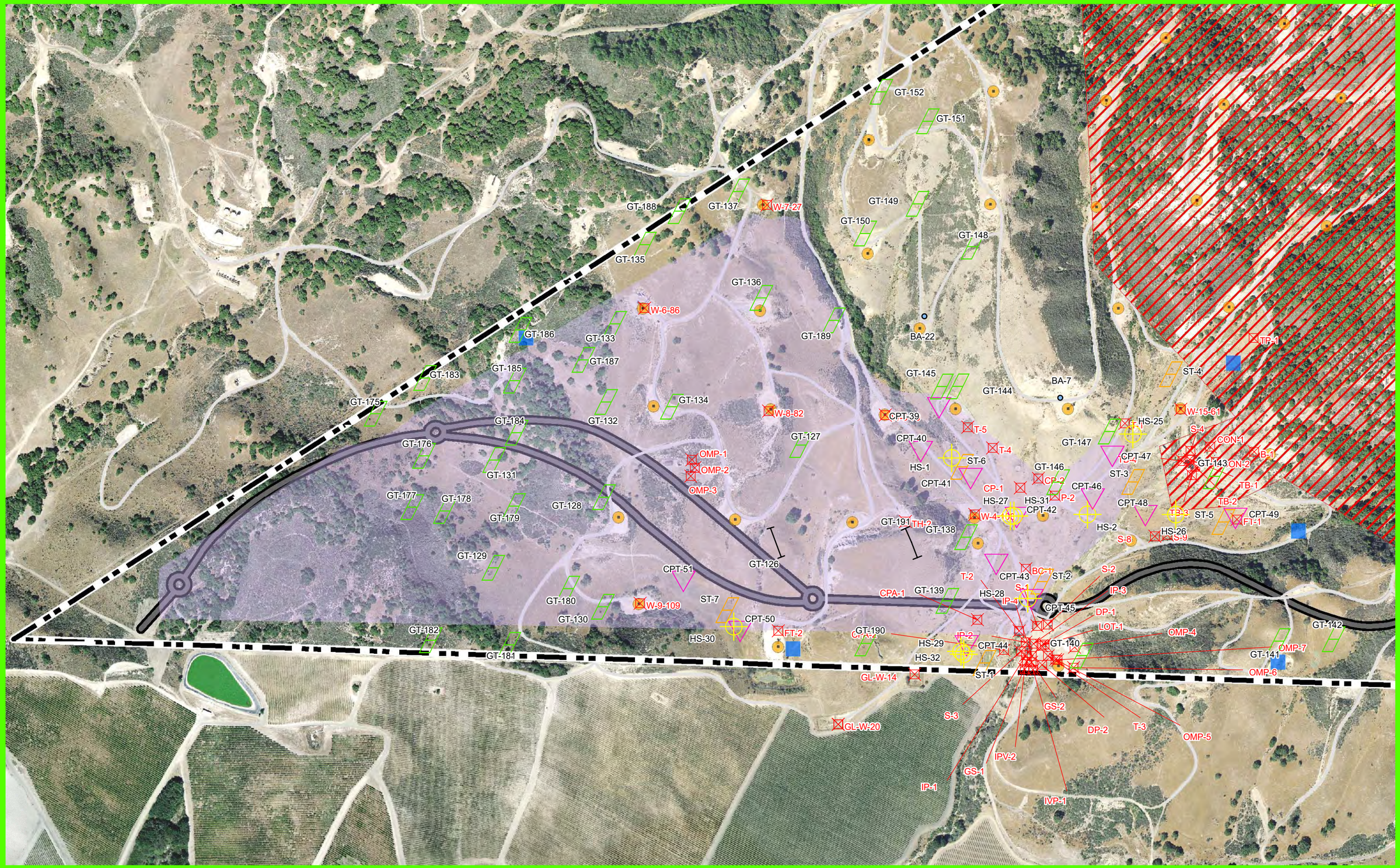
Careaga lease is shown on Insets 2 and 4 (sample IDs begin with CL-).

FORMA Systems

0 500 1,000 2,000 3,000 Feet

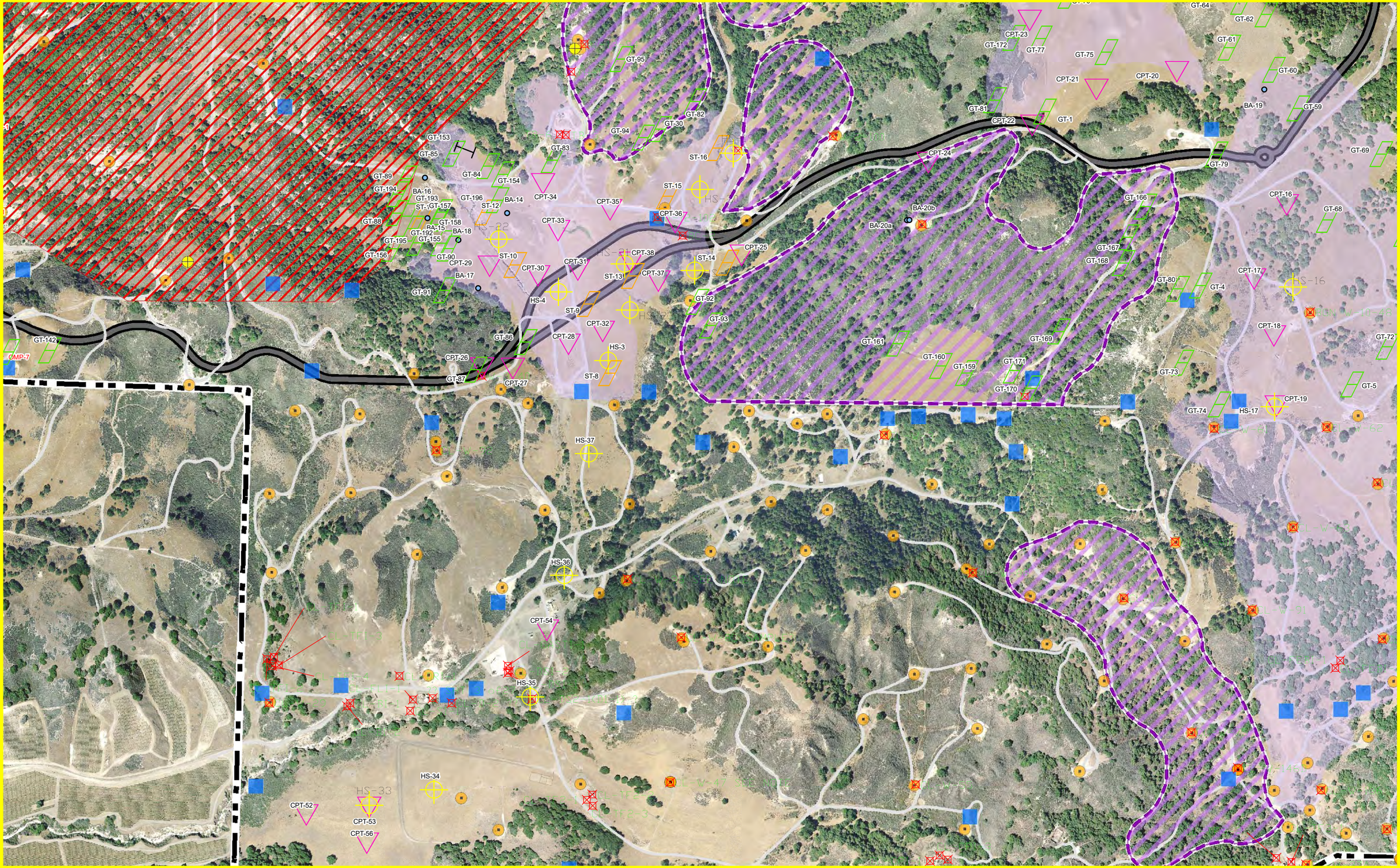
* In the event that Breitburn has not provided a well status, the condition of the well reverts to the status reported by the Department of Oil Gas & Geothermal Resources.

mxd: historic_use_location_fs051507



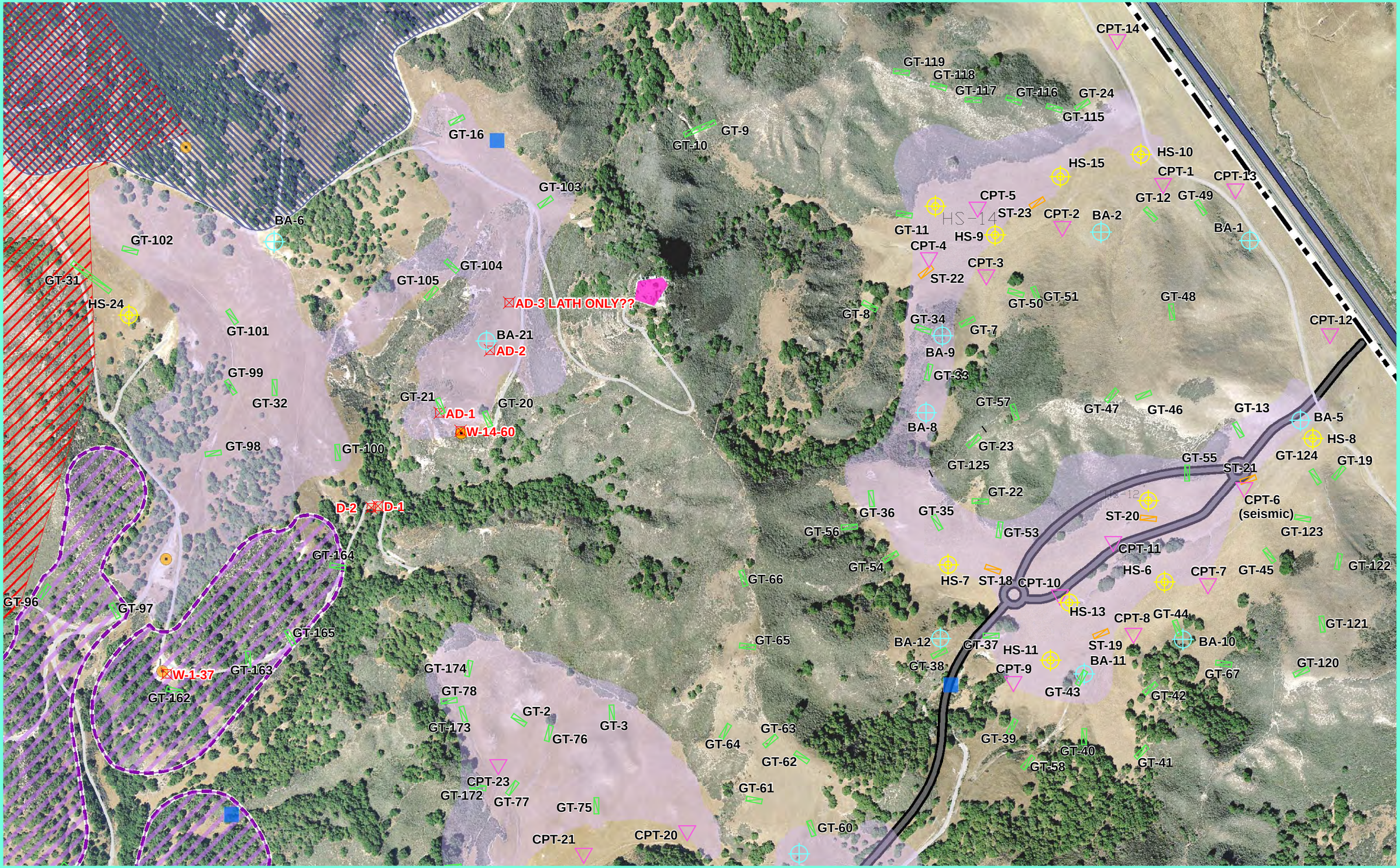
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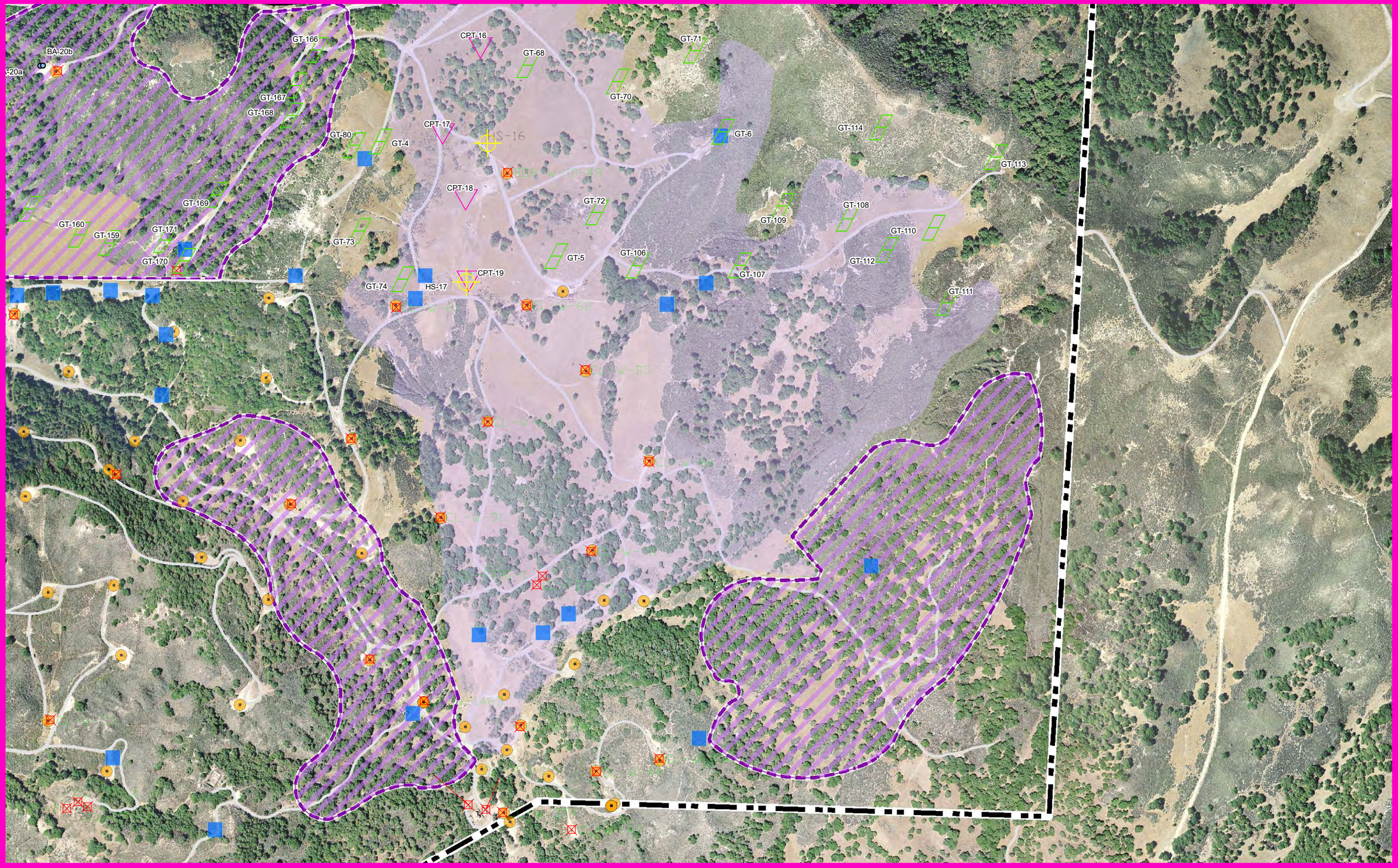
Inset 2

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Inset 3

mxd: inset3_newlove_fs051507



Inset 4

mxd: inset4_fs051507

Phase II Investigation and Remedial Action Plan

Solomon Hills

Santa Barbara County, California

June 27, 2024 **Project: 23-148**

Submitted to: **County of Santa Barbara Environmental Health Services**
225 Camino del Remedio
Santa Barbara, CA 93110

On Behalf of: **Solstra Communities California, LLC**
1555 Orcutt Hill Road
Orcutt, CA 93455

Prepared by:

Waterstone Environmental, Inc.
2936 East Coronado Street
Anaheim, California 92806
(714) 414-1122; Fax (714) 414-1166

Table 1
2024 Sampling and Analysis Matrix
Solomon Hills Development (Newlove and Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Location ID	Lease	Well/Location	Sample Depths (ft bgs)				
			Soil				Soil Vapor
			TPH (8015M)	VOCs (8260B)	SVOCs (8270C) Title 22 Metals (6010B/7471A)	SVOCs (8270C) PCBs (8082)	VOCs (8260B)
CL-W-61	Careaga	Well #61	5,10,15	5,10,15	5	--	10,15
CL-W-60	Careaga	Well #60	5,10,15	10	10	--	--
CL-W-74	Careaga	Well #74	5,10,15	10	5,10	--	--
CL-TH1	Careaga	Test Header/ Pipe Corridor	2,5,10	5	2,10	--	10
CL-TR1	Careaga	Test Header/ Pipe Corridor	2,5	5	2	--	--
CL-W-6	Careaga	Well #6 Section 31	5,10,15	10	10	--	--
CL-W-77	Careaga	Well #77	5,10,15	10,15	10	--	--
CL-W-45	Careaga	Well #45	5,10,15	10	5	--	--
CL-W-75	Careaga	Well #75	5,10,15	10	10	--	--
CL-W-37A	Careaga	Well 37A (Abandoned)	5,10,15	10,15	10	--	--
TF3, TF4	Careaga	Section 32 Tank Battery	2,5,10,15	5,10	2	--	10
CL-W-78	Careaga	Well #78	10,20,25,30	10,20,25,30	20	--	10,20
CL-W-63	Careaga	Well #63	10,20,25	10,20,25	10	--	10,20
CL-FEB1	Careaga	Former SFE Tank Battery	2,5,15	5,15	2	--	10,15
CL-W-B-5	Careaga	Well B-5	5,10,15	10	10	--	--
CL-SEP1	Careaga	Oil Separators	2,5,10	5	2	--	10
CL-T-1	Careaga	Pole/Transformer Storage Area	1,2,5	--	--	1,2	--
CL-W-6(32)	Careaga	Well #6 Section 32	5,10,20	10,20	20	--	10,20
AD-2	Newlove	Former Auto Bodies Dump	--	--	--	--	10,20
N-W-22	Newlove	Well #22	5,10,15	10	10	--	--
N-W-46	Newlove	Well #46	5,10,15	10	10	--	--
N-W-48	Newlove	Well #48	5,10,15	10	10	--	--

Notes:

ft bgs	feet below ground surface	SVOCs	semi-volatile organic compounds
TPH	total petroleum hydrocarbons	PCBs	poly chlorinated biphenyls
VOCs	volatile organic compounds	--	not sampled/not analyzed

Table 2
2024 Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)															
				Carbon Chain Range																		
Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-W-6	5	1/31/2024	<50	<50	<99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<82	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	<4.1	<4.1	ND
		20		<9.9	**18**	**26**	<93	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.3	<4.7	<4.7	ND
Careaga	CL-W-37A	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<84	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.4	<4.2	<4.2	ND
		15		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
Careaga	CL-W-45	5	1/30/2024	<9.9	**12**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<92	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<4.6	<4.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	<9.9	**17**	**22**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	**46**	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**4.7**	<3.6	<3.6	**12**	<3.6	**12**	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<10	**19**	**30**	<77	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	ND
		10		<9.9	<9.9	<20	<69	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<6.9	<3.5	<3.5	ND
		15		<9.9	<9.9	<20	<69	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-63	10	1/30/2024	<10	<10	<20	<90	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<9.0	<4.5	<4.5	ND
		20		**320**	**3,800**	**1,500**	<89	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		25		<10	**24**	<20	<130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	ND
Careaga	CL-W-74	5	1/30/2024	<9.9	**11**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	**1,400**	**76**	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9	<4.5	<4.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	**19**	<20	**150**	**85**	**37**	**7.6**	**5.2**	**7.6**	<4.2	<4.2	**5.7**	**4.5**	<4.2	**9.3**	<4.2	**11**	**19**	**30**	ND
		15		<10	**11**	<20	<69	**59**	**9.2**	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	ND
Careaga	CL-W-78	10	1/30/2024	<9.9	<9.9	<20	<100	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	ND
		20		**1,600**	**7,200**	**2,800**	<4,600	**730**	**13,000**	**9,400**	<230	**12,000**	**1,800**	**1,200**	**9,100**	<230	<230	<230	**7,200**	<460	<230	<230	ND
		25		<10	<10	<20	<78	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.8	<3.9	<3.9	ND
		30		<9.9	<9.9	<20	<75	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.5	<3.8	<3.8	ND
Careaga	CL-W-B-5	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-FEB1	2	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	<83	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	ND
Careaga	CL-SEP1	2	1/30/2024	<50	**61**	**120**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<88	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.8	<4.4	<4.4	ND
		10		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
2024 Soil Analytical Results for TPH and VOCs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Total Petroleum Hydrocarbons EPA Method 8015M (mg/kg)			Volatile Organic Compounds EPA Method 8260B (µg/kg)																
				Carbon Chain Range																			
				GRO C8-C10	DRO C10-C28	ORO C28-C44	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	Methyl isobutyl ketone	Naphthalene	n-Butylbenzene	para-Isopropyl Toluene	n-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	m,p-Xylenes	o-Xylene	Total Xylenes	All Other VOCs
Careaga	CL-TF3	2	1/31/2024	<50	<50	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<50	<50	<100	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	ND
		10		<9.9	<9.9	<20	<70	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<50	**180**	**370**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	**31**	**23**	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		10		<10	<10	<20	<76	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	ND
		15		<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<9.9	**13**	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<10	<10	<20	<73	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	ND
		10		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TR1	2	1/30/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5		<9.9	<9.9	<20	<110	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	ND
Newlove	N-W-22	5	1/31/2024	<9.9	<9.9	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<73	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.3	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<9.9	<9.9	<20	<75	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.5	<3.7	<3.7	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<10	<10	<20	<72	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.2	<3.6	<3.6	ND
		15		<10	<10	<20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels				NA	260[3]	12,000[3]	70,000,000[2]	330[1]	5,800[2]	1,900,000[2]	33,000,000[2]	2,000[1]	2,400,000[1]	--	3,800,000[2]	1,100,000[1]	940[2]	300,000[2]	2,200,000[1]	550,000[2]	640,000[2]	580,000[2]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
bgs	below ground surface
	Result exceeds screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 3
2024 Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Di-n-octyl-phthalate	1-Methylnaph-thalene	2-Methylnaph-thalene	Phenol	All Other SVOCs	Arsenic	Barium	Beryllium	Cadmium 6010B/6020	Cadmium (STLC/TCLP) (mg/L)	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	All Other Metals
Careaga	CL-W-6	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		**260**	<250	<250	**2,000**	ND	**1.7**	**35**	<0.49	<0.49	**--**	**7.6**	**1.2**	**2.9**	**1.8**	**1.9**	**3.3**	**9.1**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-6(32)	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<250	<250	<250	**1,600**	ND	**1.0**	**43**	<0.48	**2.2**	**--**	**10**	**6.2**	**3.3**	**3.9**	**1.6**	**12**	**15**	**13**	ND
Careaga	CL-W-37A	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**700**	ND	<0.98	**18**	<0.49	<0.49	**--**	**5.1**	**1.3**	**1.4**	**1.7**	**1.2**	**2.4**	**8**	<4.9	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-45	5	1/30/2024	<250	<250	<250	**2,100**	ND	**7.2**	**45**	**0.99**	**0.59**	**--**	**17**	**14**	**2.5**	**5.4**	**7.7**	**18**	**29**	**13**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careage	CL-W-60	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**13**	**50**	**1.2**	**0.51**	**--**	**26**	**5.3**	**28**	**5.8**	**2.1**	**50**	**35**	**82**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-61	5	1/30/2024	<250	<250	<250	**670**	ND	<0.98	**38**	<0.49	<0.49	**--**	**6.3**	**1.6**	**3.7**	**2.8**	**1.1**	**4.9**	**7.9**	**11**	ND
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-63	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	**17,000**	<12,000	<12,000	ND	<0.98	**14**	<0.49	<0.49	**--**	**22**	<0.49	**1.8**	**4.2**	**1.2**	**4.1**	**8.6**	**15**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-74	5	1/30/2024	<250	<250	<250	<250	ND	**3.1**	**80**	<0.48	<0.48	**--**	**22**	**1.2**	**4.2**	**8.1**	**2.4**	**7.6**	**27**	**9.8**	ND
		10		<250	<250	<250	**1,900**	ND	**4.2**	**170**	<0.48	**53/56**	**0.69**/<0.25	**26**	**1.7**	**4.9**	**3.1**	**1.9**	**41**	**34**	**39**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-75	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,200**	ND	**1.7**	**30**	<0.49	<0.49	**--**	**17**	**1.9**	**5.6**	**4.4**	**2.3**	**7.4**	**17**	**13**	
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-77	5	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	<0.98	**32**	<0.49	<0.49	**--**	**6.5**	**1.8**	**3.2**	**2.3**	**1.2**	**5.9**	**8.8**	**6.5**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-78	10	1/30/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20		<12,000	<12,000	**15,000**	<12,000	ND	<0.97	**21**	<0.49	<0.49	**--**	**6.0**	**0.88**	**1.8**	**1.6**	<0.97	**4.7**	**11**	**5.2**	ND
		25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-W-B-5	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.0**	**22**	<0.49	<0.49	**--**	**9.7**	**0.80**	**3.7**	**2.8**	**1.8**	**3.9**	**8.8**	**6.0**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
2024 Soil Analytical Results for SVOCs and Metals
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

				Semi-Volatile Organic Compounds EPA Method 8270C (µg/kg)					Title 22 Metals EPA Method 6010B/7471A (mg/Kg)													
Lease	**Sample ID**	**Sample Depth (feet bgs)**	**Sample Date**	**Di-n-octyl-phthalate**	**1-Methylnaph-thalene**	**2-Methylnaph-thalene**	**Phenol**	**All Other SVOCs**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium 6010B/6020**	**Cadmium (STLC/TCLP) (mg/L)**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Molybdenum**	**Nickel**	**Vanadium**	**Zinc**	**All Other Metals**
Careaga	CL-FEB1	2	1/31/2024	<250	<250	<250	<250	ND	<0.99	**30**	<0.50	<0.50	--	**5.4**	**1.1**	**2.4**	**2.6**	**1.9**	**3.7**	**7.7**	**5.7**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-SEP1	2	1/30/2024	<5,000	<5,000	<5,000	<5,000	ND	**1.5**	**29**	<0.49	<0.49	--	**6.6**	**1.4**	**6.5**	**11**	**4.0**	**4.7**	**13**	**16**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-T-1	1	1/30/2024	<2,500	<2,500	<2,500	<2,500	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2		<250	<250	<250	<250	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF3	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	**1.2**	**110**	<0.49	**0.74**	--	**7.3**	**1.4**	**4.7**	**3.3**	**2.3**	**6.2**	**10**	**52**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TF4	2	1/31/2024	<13,000	<13,000	<13,000	<13,000	ND	<0.98	**36**	<0.49	**0.89**	--	**4.9**	**0.91**	**3.3**	**4.2**	**4.4**	**3.7**	**7.8**	**13**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Careaga	CL-TH1	2	1/31/2024	<2,500	<2,500	<2,500	<2,500	ND	**1.3**	**24**	<0.48	<0.48	--	**7.6**	**0.84**	**3.2**	**3.0**	**1.8**	**3.6**	**8.5**	**8.6**	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**3.0**	**12**	<0.48	<0.48	--	**11**	**0.68**	**2.2**	**3.1**	**2.9**	**3.6**	**14**	<4.8	ND
Careaga	CL-TR1	2	1/30/2024	<250	<250	<250	<250	ND	**1.6**	**35**	<0.50	<0.50	--	**6.1**	**1.3**	**3.3**	**2.3**	**3.4**	**4.3**	**10**	<5.0	ND
		5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-22	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**2,000**	ND	**4.8**	**18**	<0.49	<0.49	--	**8.0**	**0.77**	**1.6**	**3.5**	**19**	**4.3**	**15**	**5.8**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-46	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	<250	ND	**1.1**	**16**	<0.48	<0.48	--	**10**	**1.2**	**2.0**	**2.6**	**1.5**	**3.6**	**14**	**12**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Newlove	N-W-48	5	1/31/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10		<250	<250	<250	**1,100**	ND	**1.5**	**38**	<0.48	<0.48	--	**15**	**2.1**	**4.4**	**3.6**	<0.95	**8.5**	**19**	**16**	ND
		15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			Residential Screening Levels	630,000[1]	9,900[1]	240,000[4]	19,000,000[1]	--	12[3]	15,000[4]	16[4]	78[4]	1/1**	120,000[2]	23[4]	3,100[4]	80[4]	390[4]	820[4]	390[4]	23,000[4]	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface
	Detection exceeded screening level

Screening Levels:

1 DTSC Hero Note 3 (June 2020 - Revised May 2022)

2 US EPA Regional Screening Levels (November 2023)

3 The screening level of 12 ppm for arsenic is within the range of naturally-occurring background levels for California soils as cited in Bradford et. al., "Background Concentrations of Trace and Major Elements in California Soils", Kearney Foundation Special Report, UC-Riverside and CAL-EPA DTSC, March 1996.

4 SF Bay RWQCB Commercial Human Health Environmental Screening Levels (January 2019)

Table 4
2024 Soil Analytical Results for PCBs
Solomon Hills Development (Newlove & Careaga Leases)
Orcutt Oil Field, Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	PCBs EPA Method 8082 (µg/kg)
Careaga	CL-T-1	1	1/30/2024	<50
		2		<50
			Residential Screening Level	170

Notes:

ND/<	Not Detected above noted Reporting Limit
PCBs	Polychlorinated Biphenyls
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
bgs	below ground surface

Table 5
2024 Soil Vapor Analytical Results - Solomon Hills Development
(Newlove & Careaga Leases) Volatile Organic Compounds
Orcutt Oil Field
Orcutt, CA

Lease	Sample ID	Sample Depth (feet bgs)	Sample Date	Volatile Organic Compounds EPA Method 8260B (µg/m^3) Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other VOCs
Careaga	CL-W-6(32)	10	1/31/2024	**9.0**	**45**	**13**	**13**	<40	<12	**17**	<12	**10**	<8	**134**	<8	**37**	**10**	**130**	ND
		20		<8	**31**	**14**	**10**	<40	<12	**12**	<12	<8	<8	**68**	<8	**27**	<8	**99**	ND
Careaga	CL-W-61	10	1/31/2024	**25**	**21**	<8	<8	<40	<12	<8	<12	<8	<8	**221**	<8	**19**	<8	**98**	ND
		15		**67**	**23**	<8	<8	<40	<12	<8	<12	<8	<8	**300**	**46**	**16**	<8	**95**	ND
		15 REP		**74**	**23**	<8	<8	<40	<12	<8	<12	<8	**9.0**	**313**	**76**	**16**	<8	**89**	ND
Careaga	CL-W-63	10	1/31/2024	**12**	**14**	<8	<8	<40	<12	<8	<12	<8	<8	**100**	<8	**13**	<8	**70**	ND
		20		**561**	**2,520**	**2,380**	**483**	<40	<12	**787**	**1,210**	<8	<8	**959**	<8	**1,220**	**301**	**4,127**	ND
Careaga	CL-W-78	10	1/31/2024	**553**	**6,540**	**2,900**	**602**	**67**	**220**	**2,290**	**1,200**	<8	<8	**160**	<8	**2,960**	**23**	**2,588**	ND
		20		NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
Careaga	CL-FEB1	10	1/31/2024	**8**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	--	ND
		15		**16**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**20**	<8	<8	<8	--	ND
Careaga	CL-SEP1	10	1/31/2024	**12**	**56**	**26**	**10**	<40	<12	**27**	**16**	**9.0**	<8	**52**	<8	**40**	<8	**99**	ND
Careaga	CL-TF3	10	1/31/2024	**11**	**9.0**	<8	<8	<40	<12	<8	<12	<8	<8	**33**	<8	**12**	<8	**16**	ND
Careaga	CL-TF4	10	1/31/2024	**9.0**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**30**	<8	**9**	<8	**19**	ND
Careaga	CL-TH1	10	1/31/2024	**232,000**	**35,600**	**8,760**	<2400	<12000	<3600	**5,900**	<3600	<2400	<2400	**55,900**	<2400	**9,200**	**4,770**	**71,200**	ND
Newlove	AD-2	10	1/31/2024	**43**	**20**	<8	<8	<40	<12	<8	<12	<8	<8	**106**	<8	**19**	<8	**78**	ND
		20		**17**	<8	<8	<8	<40	<12	<8	<12	<8	<8	**35**	**9**	**9**	<8	--	ND
Indoor Air Screening Level				0.097	1.1	--	--	0.083	--	1,000	--	940	0.46	310	0.48	63	63	100	
Residential Screening Level AF= 0.03				3.2	37	--	--	2.8	--	33,333	--	31,333	15.3	10,333	16	2,100	2,100	3,333	
Residential Screening Level AF= 0.001				97	1,100	--	--	83	--	1,000,000	--	940,000	460	310,000	480	63,000	63,000	100,000	--

Notes:

--	Not Analyzed/Not Applicable
ND/<	Not Detected above noted Reporting Limit
µg/m3	micrograms per cubic meter
bgs	below ground surface
NF	No flow

Screening Levels:
DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022). Unless Otherwise Noted (AF = 0.03).

AF = Attenuation Factor, applied according to Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion (February 2023).
* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) with appropriate AF because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

Table 6
2024 Summary of Estimated Remediation Soil Volumes Solomon Hills Development, Orcutt Oil Field Orcutt, CA

Item/Feature	Est. Qty.	Assumed Basis	Assumed Size L x W x H	Ea (cy)	Subtotal (cy)	Tons
Wells/ Well Pads	60	25%	Conical Radius 20', Depth 12'	186	2,791	4,187
Sumps	10		25' x 25' x 7'	162	1,620	2,431
Tank Batteries	3		75' x 35' x 5'	486	1,458	2,188
Pipes			2,000' x 10 x 4'	2,963	2,963	4,444
Roads	184000	sf, 4 inches thick	0.33		2,272	3,407
Other Facilities	10		25' x 35' x 5'	116	1,157	1,736
Former Dump D-2	1		25' x 25' x 10'	231	231	347
			Subtotal		12,493	18,740
			Contingency	10%	1,249	1,874
Conversion Factor	1.5	tons/cy	**Grand Total**		**13,743**	**20,614**

Note: These estimates are based on available information for these oilfield facilities, the results of site investigations, various assumptions outlined herein, and the proposed site development.

Figures

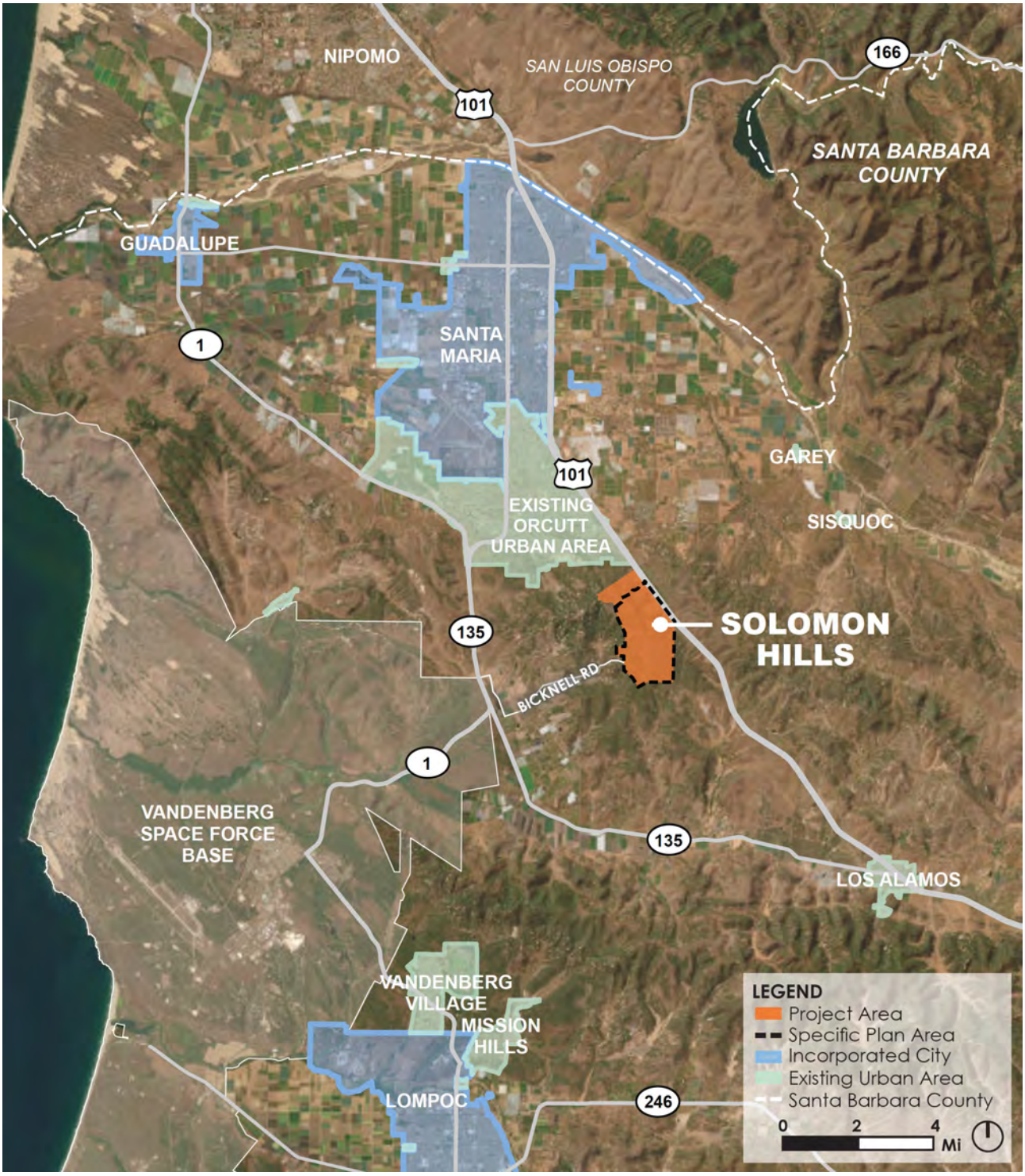


Figure 1
Subject Property Location Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

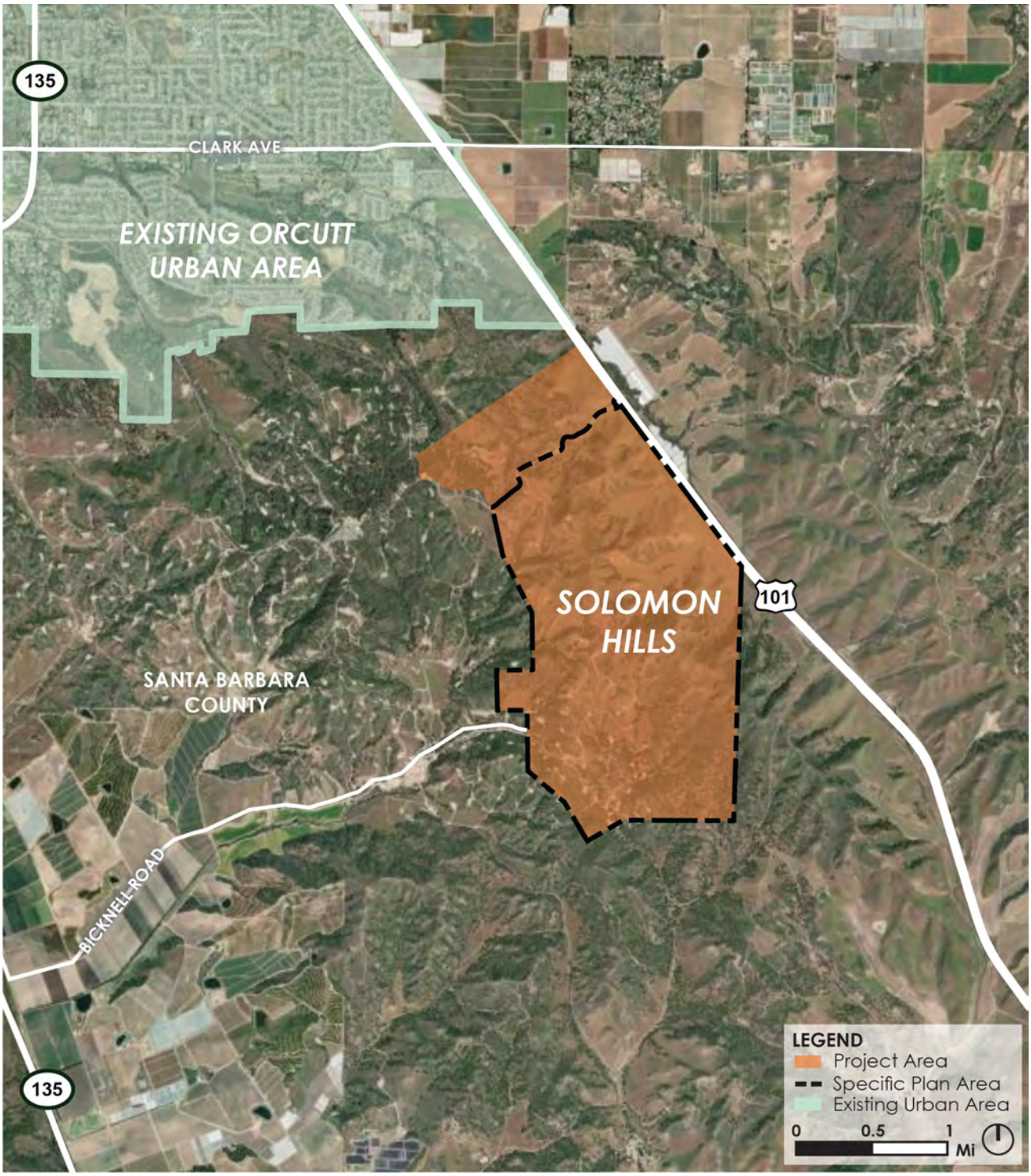


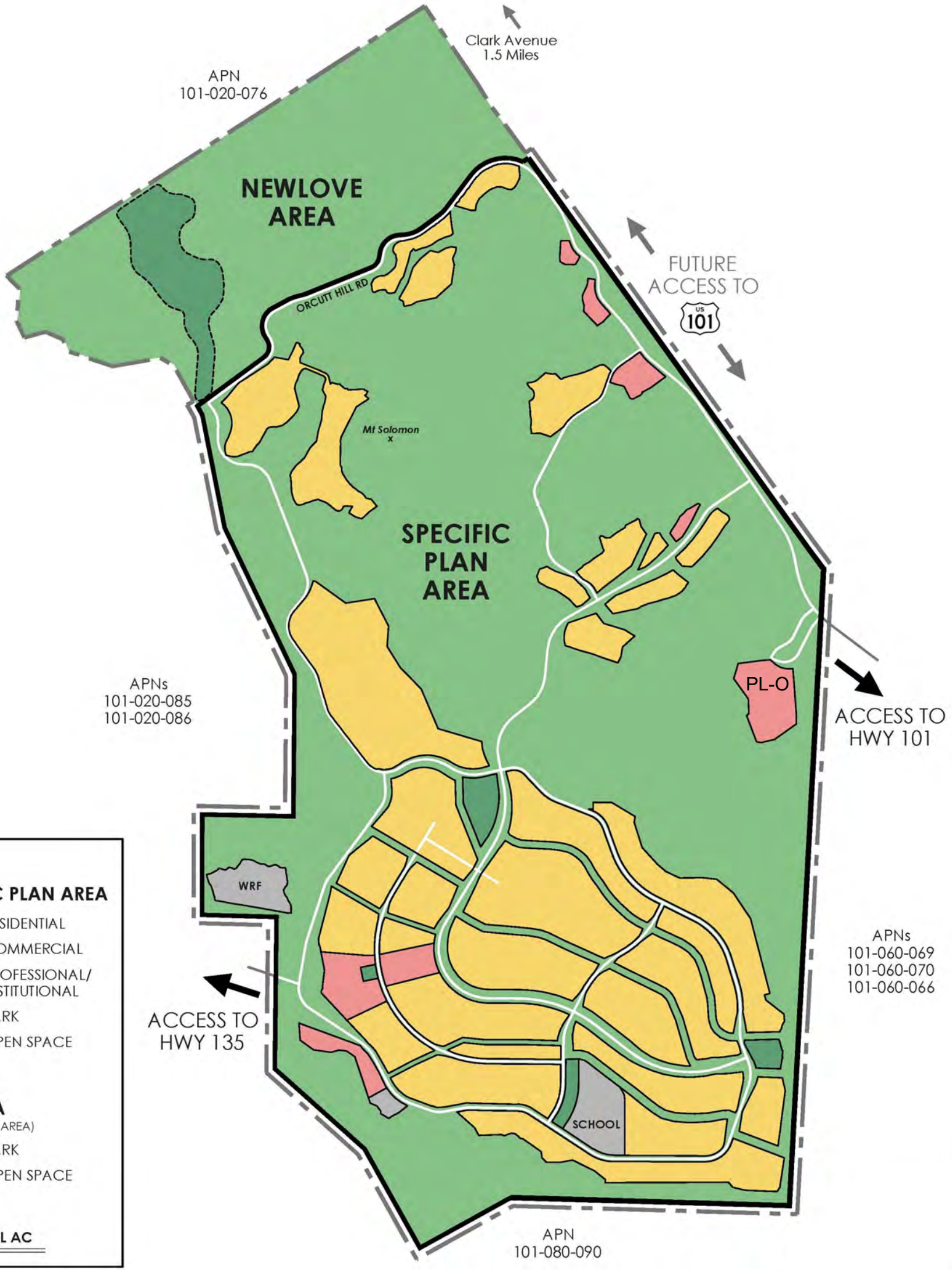
Figure 2
Subject Property Vicinity Map

Solomon Hills
Santa Barbara County, CA

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

SOLOMON HILLS
AREA DESIGNATIONS MAP
SANTA BARBARA COUNTY, CA



LEGEND

SPECIFIC PLAN AREA

546 AC	RESIDENTIAL
41 AC	COMMERCIAL
25 AC	PROFESSIONAL/ INSTITUTIONAL
41 AC	PARK
963 AC	OPEN SPACE
1,616 AC	

NEWLOVE AREA
(OUTSIDE SPECIFIC PLAN AREA)

31 AC	PARK
256 AC	OPEN SPACE
287 AC	

1,903 TOTAL AC

Figure 3
Development Map

Solomon Hills
Santa Barbara County, CA

Legend

NORTH

Approximate Scale
0 mi 0.125 mi 0.25 mi

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST., ANAHEIM, CA

Drawn By: TD	Project No:
Approved By: MS	Date: 5/27/2024



Figure 4
Grading Plan

Solomon Hills
Santa Barbara County, CA

NORTH

Approximate Scale

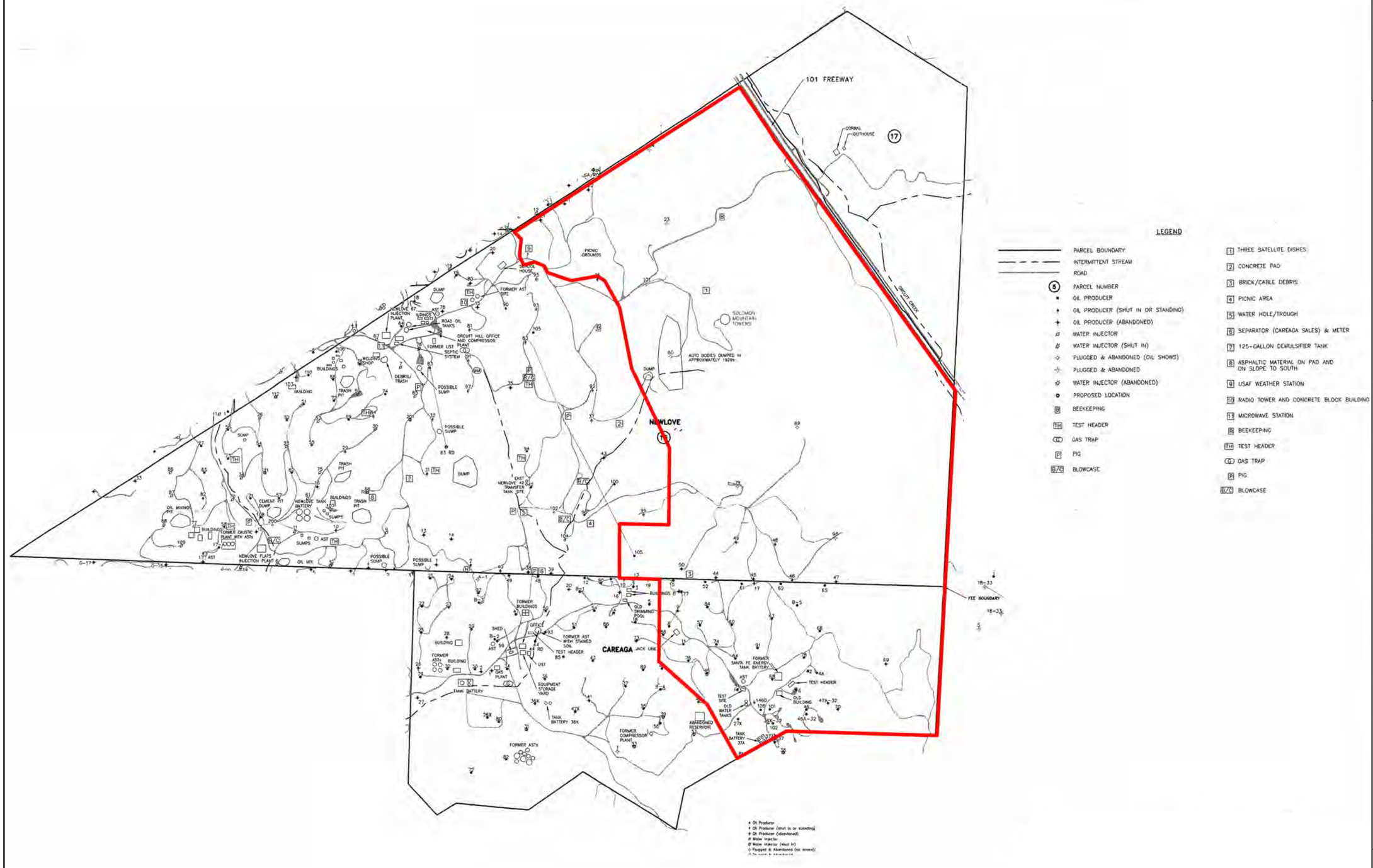
0' 200' 400'

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Figure 5
Environmental Features Site Plan

Solomon Hills
Santa Barbara County, CA



Reference: Harding ESE Env Site Assessment, Orcutt Hill Area, Santa Barbara County, California. Figure 2, October 22, 2001.

NORTH

0 1000' 2000'

Approximate Scale

Legend

Approximate Subject Property Boundary

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

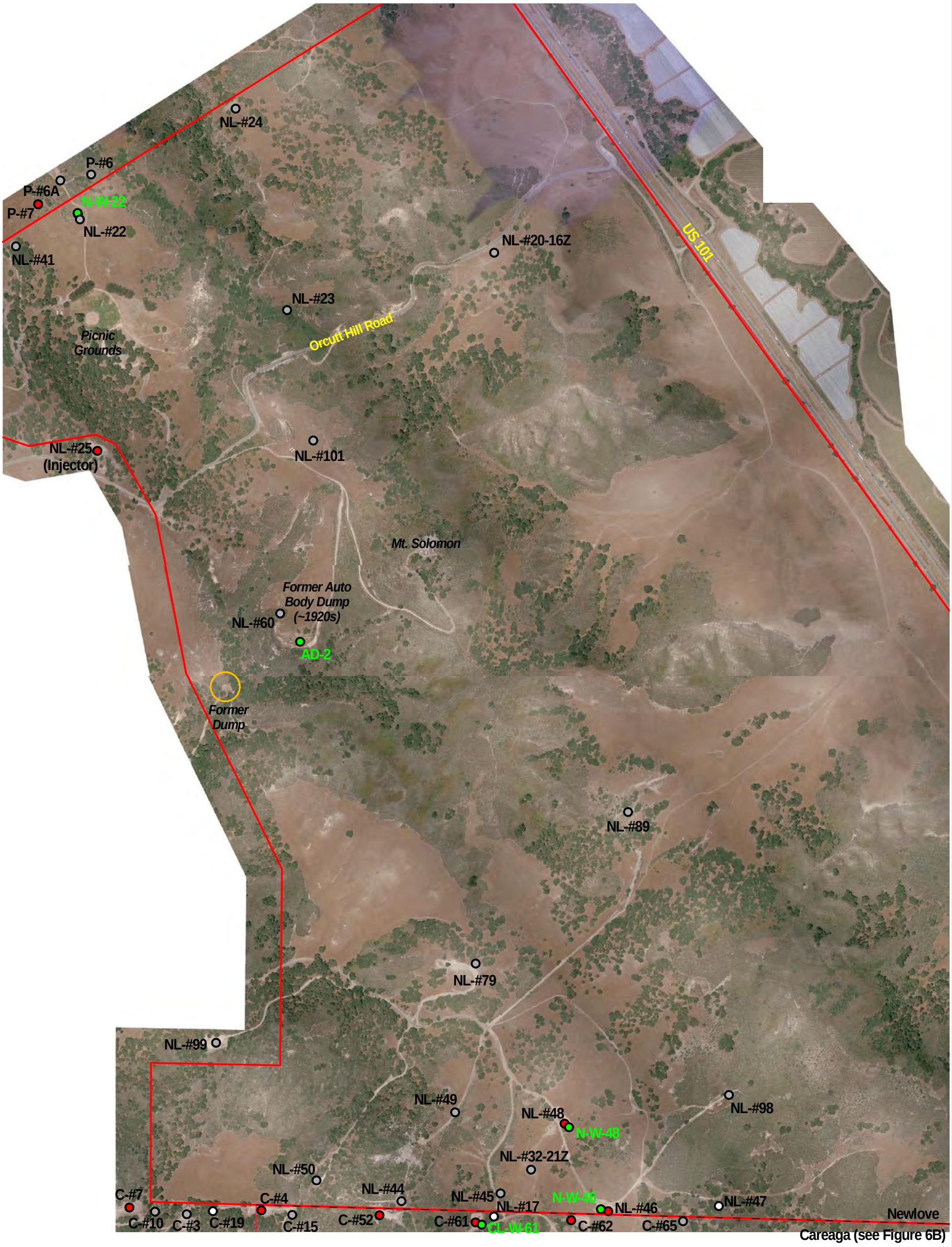


Figure 6A
Site Features, Sample Locations, and Areas of Proposed Remediation - Newlove

Solomon Hills
North - Newlove Area

Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

NORTH

Approximate Scale
0' 400' 800'

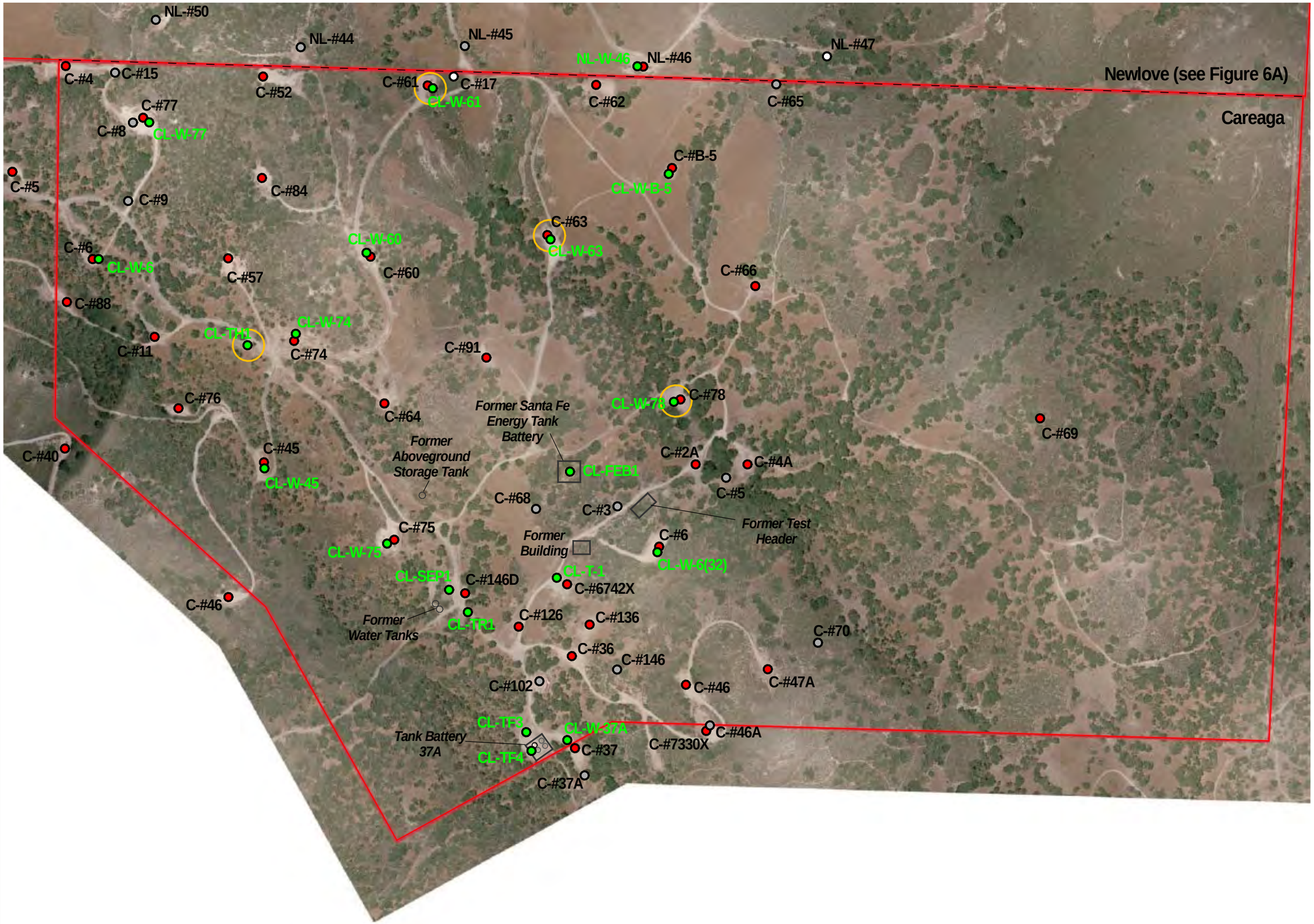
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2936 E. Coronado St.
Anaheim, California 92806

Drawn By: TD	Project No: 23-148
Approved By: MS	Date: 5/21/24

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

Figure 6B
Site Features, Sample Locations, and Areas of Proposed Remediation - Careaga

Solomon Hills
South - Careaga Area



Legend

- Approximate Subject Property Boundary
- Active/Idle Oil Well
- Plugged Oil Well
- Cancelled Oil Well
- Sample Location
- Proposed Remediation Area

Reference: Harding ESE 2001. Environmental Site Assessment, Orcutt Hill Area. Figure 2 - Environmental Features Map.

NORTH

Approximate Scale

0' 250' 500'

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Anaheim, California 92806

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