



Murrieta Road Warehouse Project Initial Study

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Acronym List

A-P	Alquist-Priolo Earthquake Fault Zoning Act
AQMP	Air Quality Management Plan
AB	Assembly Bill
APN	Assessor’s Parcel Numbers
BMPs	Best Management Practices
CARB	California Air Resources Board
CBC	California Building Code
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dBA	A-weighted decibel
EDC	Economic Development Corridor
EDC – NG	Economic Development Corridor – Northern Gateway
EIR	Environmental Impact Report
EMWD	Eastern Municipal Water District
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Maps
GHG	Greenhouse Gas
I-215	Interstate 215
LHMP	Local Hazard Mitigation Plan
MBTA	Migratory Bird Treaty Act
MSHCP	Multi-Species Habitat Conservation Plan
NAAQS	National Ambient Air Quality Standards
NPDES	National Pollutant Discharge Elimination System
NAHC	Native American Heritage Commission
NOx	Nitrous Oxides
O ₃	Ozone
PM	Particulate Matter
RCFD	Riverside County Fire Department/CalFire
RWQCB	Regional Water Quality Control Board

SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCAG	Southern California Association of Governments
SR -74	State Route 74
SWPPP	Stormwater Pollution Prevention Plan
TPZ	Timberland Production Zone
USGS	U.S. Geologic Survey
WQMP	Water Quality Management Plan

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1 INTRODUCTION

1.1 PURPOSE OF THE INITIAL STUDY

This Initial Study has been prepared in accordance with the following:

- California Environmental Quality Act (CEQA) of 1970 (Public Resources Code Sections 21000 et seq.); and
- Guidelines for Implementation of the California Environmental Quality Act (State CEQA Guidelines) (California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000 et seq.) as amended and approved on December 28, 2018.

Pursuant to CEQA, this Initial Study has been prepared to analyze the potential for significant impacts on the environment resulting from implementation of the proposed industrial Project described in greater detail in Section 3.0 below. As required by State CEQA Guidelines Section 15063, this Initial Study is a preliminary analysis prepared by the Lead Agency, the City of Menifee, to determine if a Mitigated Negative Declaration or an Environmental Impact Report is required to evaluate the potential environmental impacts associated with the Project.

This Initial Study informs City of Menifee decision-makers, affected agencies, and the public of potentially significant environmental impacts associated with the implementation of the Project. A “significant effect” or “significant impact” on the environment means “*a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project*” (State CEQA Guidelines Section 15382).

Given the Project's broad scope and level of detail, combined with previous analyses and current information about the site and environs, the City's intent is to adhere to the following CEQA principles:

- Provide meaningful early evaluation of site planning constraints, service and infrastructure requirements, and other local and regional environmental considerations. (Public Resources Code Section 21003.1)
 - Encourage the applicant to incorporate environmental considerations into project conceptualization, design, and planning at the earliest feasible time. (State CEQA Guidelines Section 15004[b][3])
 - Specify mitigation measures for reasonably foreseeable significant environmental effects and commit the City and applicant to future measures containing performance standards to ensure their adequacy when detailed development plans and applications are submitted. (State CEQA Guidelines Section 15126.4)
-

1.2 DOCUMENT ORGANIZATION

This Initial Study includes the following sections:

Section 1. Introduction

Provides information about CEQA and its requirements for environmental review and explains that an Initial Study was prepared by the City of Menifee to evaluate the Project's potential impact to the physical environment, and to determine if an Environmental Impact Report (EIR) is required.

Section 2. Environmental Setting

Provides information about the Project's location.

Section 3. Project Description

Includes a description of the Project's physical features and characteristics.

Section 4. Environmental Checklist

Includes the Environmental Checklist from Appendix G of the State CEQA Guidelines and evaluates the Project's potential to result in significant adverse effects to the physical environment and identifies if an EIR is required, and if one is, what environmental topics need to be analyzed in the EIR.

2 ENVIRONMENTAL SETTING

2.1 PROJECT LOCATION

The Project site is located in the northern portion of the City of Menifee, within Riverside County. The City of Menifee is located approximately 23 miles southeast of Downtown Riverside, 37 miles east of Irvine, and 66 miles southeast of Downtown Los Angeles. Regional access to the Project site is provided via Interstate 215 (I-215), located approximately 0.9 miles to the east, and State Route 74 (SR-74), approximately 3.2 miles to the northwest.

The Project site encompasses approximately 28.27 acres and is generally located south of Floyd Avenue, east of Geary Street, west of Murrieta Road, and north of McLaughlin Road. The Project site is identified by Assessor's Parcel Numbers (APN) 330-210-010, -011, -013, -062 and 330-560-001 through 330-560-040, 330-570-001 through 330-570-033, and 330-571-001 through 330-571-005. Additionally, the site is located within the Romoland USGS 7.5-Minute Quadrangle; Section 17, Township 5 South, Range 3 West, San Bernardino Baseline and Meridian. Regional location and local vicinity maps are provided in Figure 2-1, *Regional Location*, Figure 2-2, *Local Vicinity*, and Figure 2-3, *Project Aerial*, respectively.

2.2 EXISTING LAND USES

The Project site comprises four parcels encompassing approximately 28.27 acres. These parcels are identified as Assessor's Parcel Numbers (APNs) 330-210-010, -011, -013, and -062 and 330-560-001 through 330-560-040, 330-570-001 through 330-570-033, and 330-571 through 330-571-005. The Project site is currently vacant but disturbed from previous agricultural activities and previous development. The site is vegetated by unplanned, non-native grasses as well as sparse shrubs. The site is relatively flat throughout. The site's existing conditions are shown in Figure 2-3, *Project Aerial*, and Figure 2-4, *Existing Site Photos*.

2.3 EXISTING LAND USE AND ZONING

The Project site has a land use designation of Economic Development Corridor (EDC) and is zoned Economic Development Corridor – Northern Gateway (EDC-NG), as shown on Figures 2-5, *Existing General Plan Designation*, and 2-6, *Existing Zoning Designation*. The EDC land use designation allows for development of industrial uses at up to a 1.0 floor area ratio (FAR). The EDC-NG zone is intended to allow for development of a business park area with more intensive industrial uses with less office than envisioned for the Scott Road EDC area. It is envisioned as a buffer and transition between the commercial uses in Perris to the north and the residential uses in Menifee, south of McLaughlin Road.

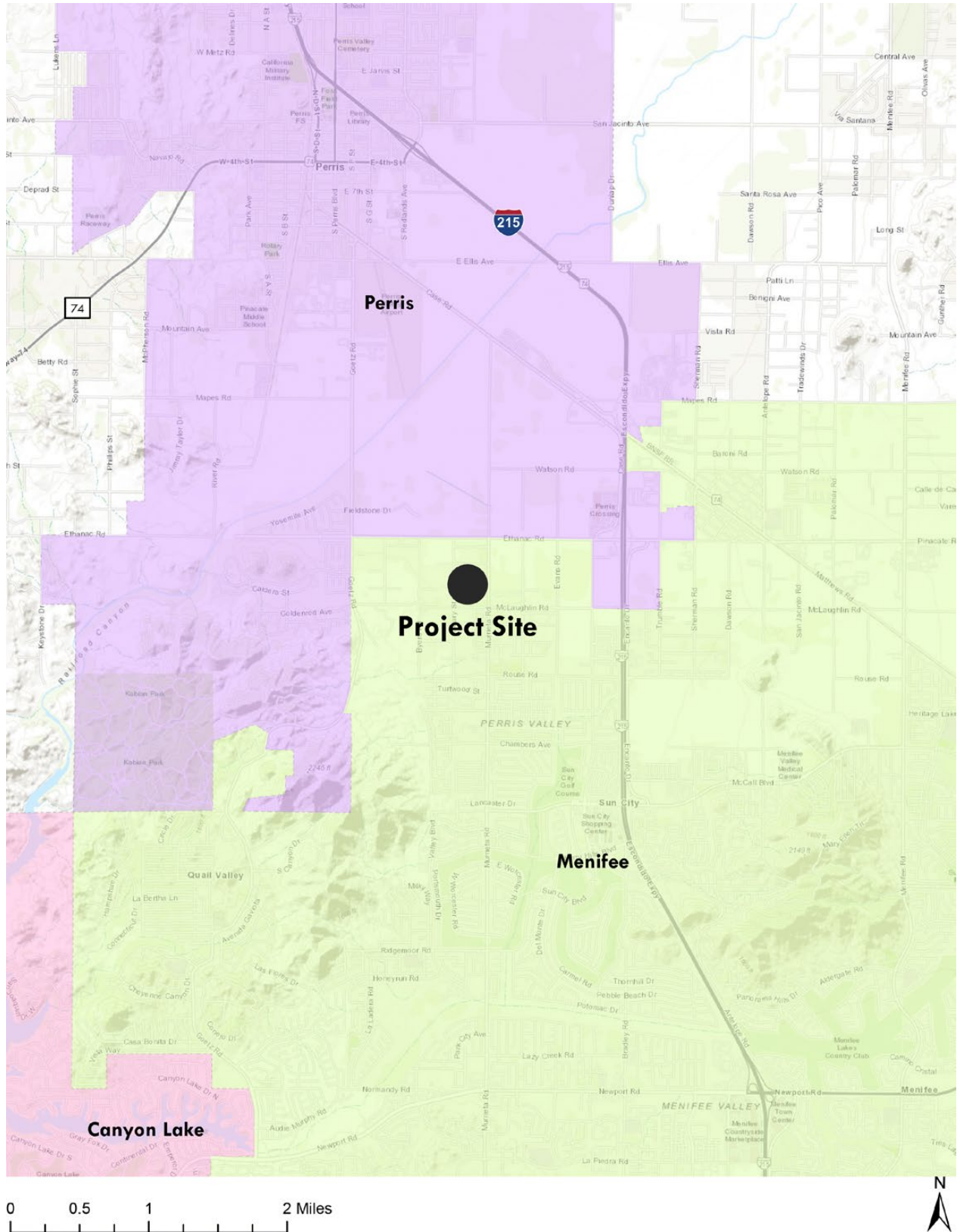
2.4 SURROUNDING LAND USES

The surrounding land uses are described in Table 2-1 along with the General Plan Land Use and Zoning designations.

Table 2-1: Surrounding Existing Land Use and Zoning Designations

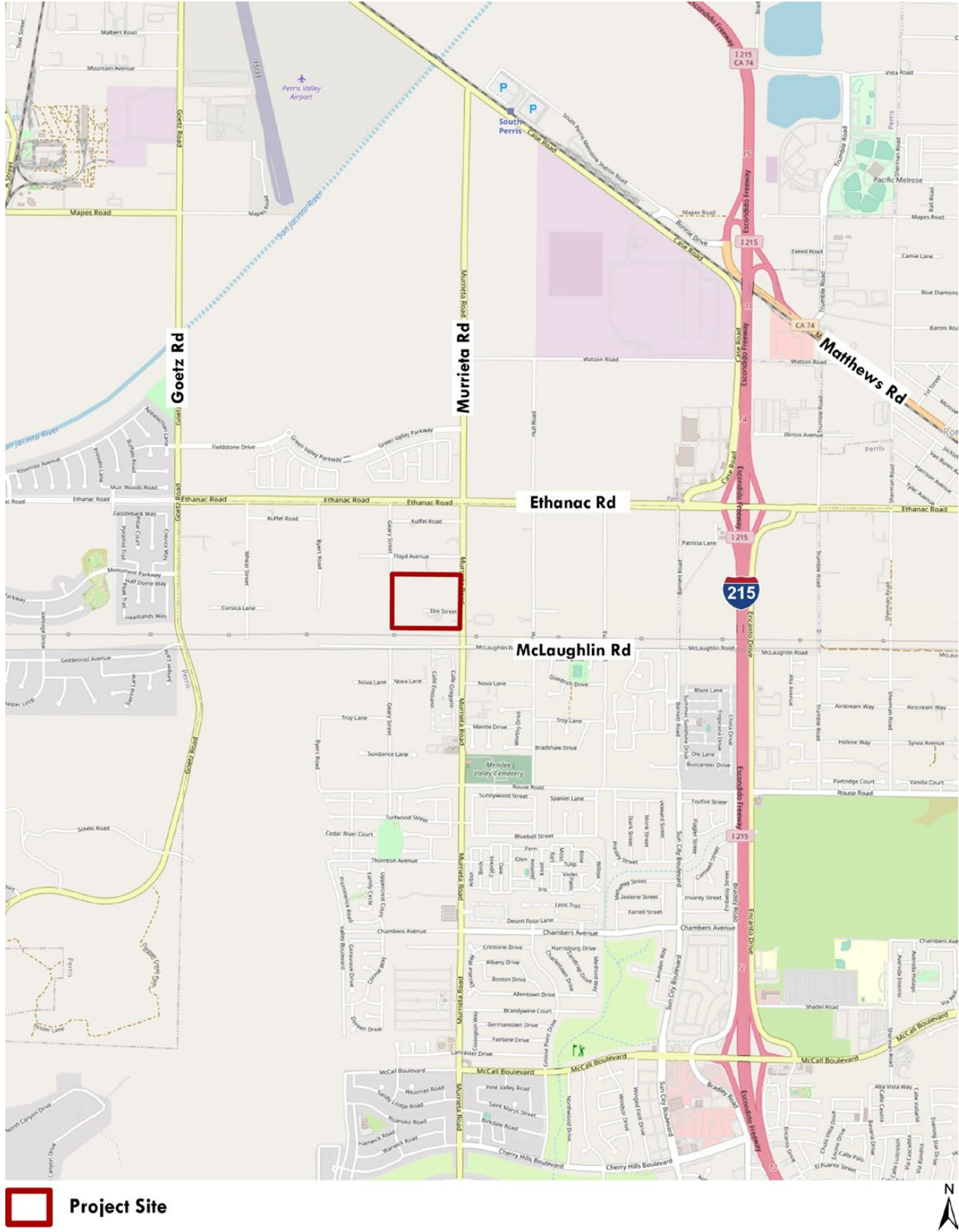
	Existing Land Use	City General Plan Designation	City Zoning Designation
North	Rural single-family residences followed by Ethanac Road	Economic Development Corridor (EDC)	Economic Development Corridor – Northern Gateway (EDC-NG)
West	Geary Street followed by vacant land	Economic Development Corridor (EDC)	Economic Development Corridor – Northern Gateway (EDC-NG)
South	Southern California Edison utility corridor followed by McLaughlin Road	Public Utility Corridor (PUC)	Public Utility Corridor (PUC)
East	Murrieta Road followed by vacant land and a modular office building dealer lot	Economic Development Corridor (EDC)	Economic Development Corridor – Northern Gateway (EDC-NG)

Regional Location



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Local Vicinity



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Aerial View



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Existing Site Photos



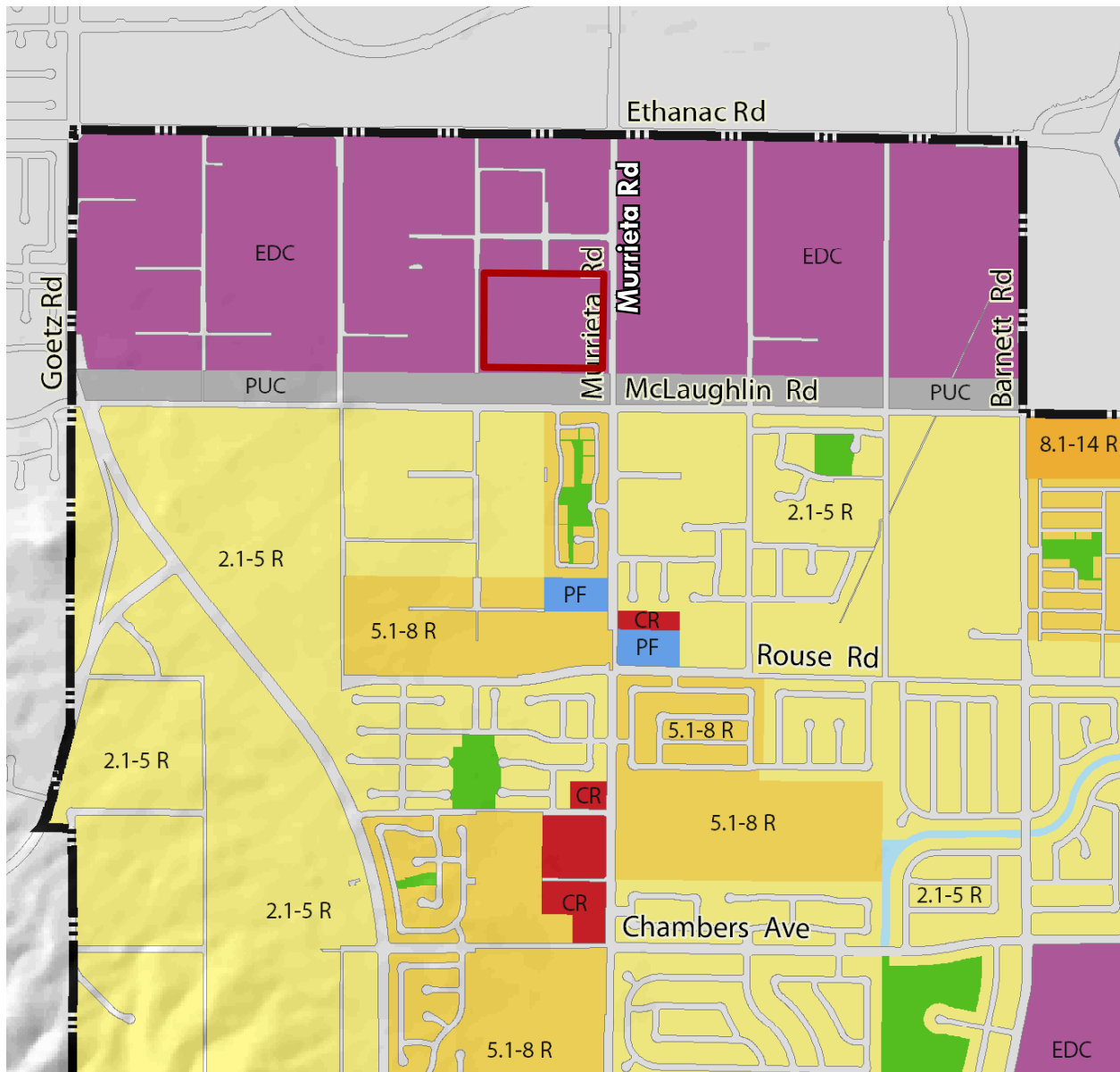
View from the northwest corner on Geary St.



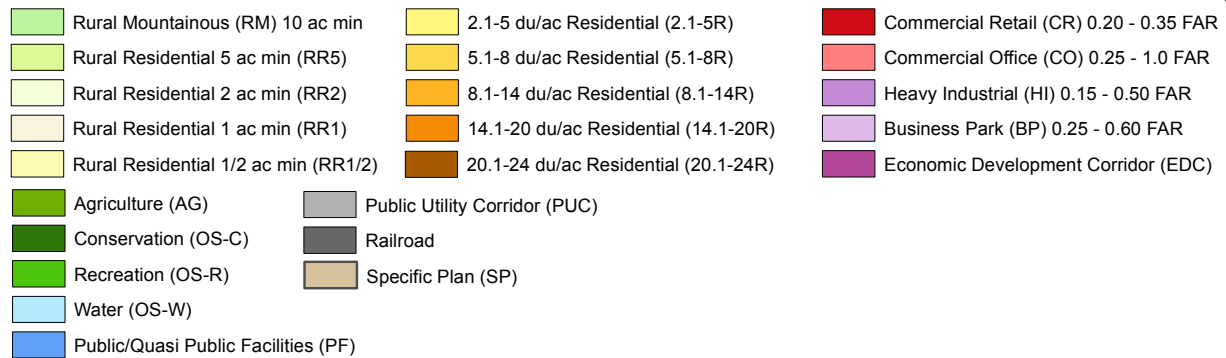
View from northeast corner on Murrieta Rd.

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Existing General Plan Designation

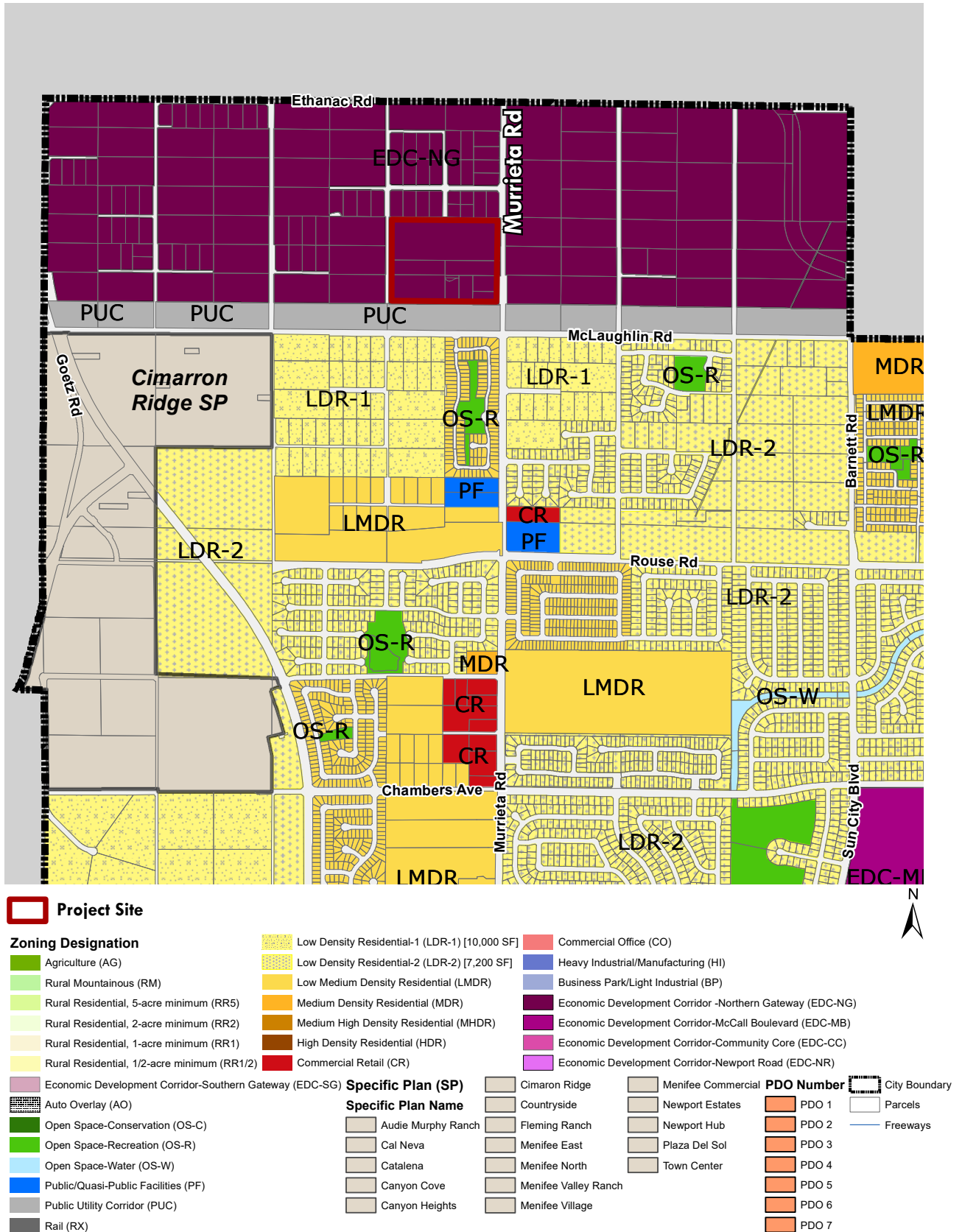


 **Project Site**



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Existing Zoning Designation



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3 PROJECT DESCRIPTION

3.1 PROJECT OVERVIEW

The applicant for the Project proposes to develop a new distribution warehouse facility, with related site improvements, on a 28.27-acre site within the City of Menifee. The proposed Project includes development of an approximately 517,720-square foot (SF) speculative warehouse building with a FAR of 0.48. This environmental analysis includes a development buffer in order to account for final design changes, equivalent to three percent of the building square footage, or 15,532 SF, which would result in a building area of 533,252 SF and an FAR of 0.50, as shown in Table 3-1, *Development Summary*. Additional improvements include a parking lot and loading docks, ornamental landscaping, associated onsite infrastructure, and construction of offsite street improvements. See Figure 3-1, *Conceptual Site Plan*. The Project Applicant requests the approval of a Development Plan Review for consideration of the architectural design, landscaping, and overall compliance with the City's zoning regulations.

Table 3-1: Development Summary

Murrieta Road Warehouse			
	Site Plan SF	Buffer SF	Total SF Analyzed
Warehouse area	490,400	15,532	505,932
Office area	20,320	-	20,320
Mezzanine	7,000	-	7,000
Total building area	517,720	15,532	533,252
FAR	0.48	-	0.5

3.2 PROJECT FEATURES

Building Summary and Architecture

The proposed speculative warehouse building would be approximately 55 feet tall, and include a mezzanine, loading docks, and associated vehicle and truck trailer parking spaces. The 533,252 SF warehouse building would include approximately 20,320 SF of ground floor office space, 7,000 SF of mezzanine office space, and 505,932 SF of warehouse space. Figure 3-1, *Conceptual Site Plan*, illustrates the proposed site plan without the three percent development buffer.

The proposed Project includes a building setback of approximately 205 feet from the northern property line, a building setback of approximately 105 feet from the Murrieta Road right-of-way, a building setback of approximately 125 feet from the proposed driveway on the southern boundary of the site, and a building setback of approximately 113 feet from the Geary Street right-of-way. Loading dock doors would be located on the northern (265 feet from property line) and southern sides of the building.

Architectural Features

As shown in Figure 3-2, *Elevations*, the proposed Project would utilize a varied color scheme and glazing to establish an architectural presence through an emphasis on building finish materials and consistent material usage. The proposed elevation materials would include painted concrete in multiple shades of gray and a shade of blue, blue glazing, and metal canopies. The proposed building would include two main entrances that would include extensive blue glazing. The building

height would vary in order to reduce massing, from 48 feet and 6-inches to a maximum height of 55 feet at the building parapet.

Parking and Loading Dock Summary

Truck loading docks and trailer parking would be along the northern and southern sides of the building. The Project would include 90 dock high doors and 4 grade-level truck doors. Approximately 130 trailer parking spaces would be provided in the northern truck court and 64 trailer parking spaces would be provided in the southern truck court, within areas secured by sliding gates. The proposed Project would also provide 409 passenger car parking spaces, including 7 ADA spaces, 80 electric vehicle capable stalls, and 20 electric vehicle charging stations, as shown in Table 3-1.

Table 3-2: Parking Summary

Parking Type	Number Provided
Standard Stalls	300
Accessible Stalls	9
Electric Vehicle Capable Stalls	80
Electric Vehicle Charging Stalls	20
Total	409

Landscaping and Fencing

The Project would include approximately 137,363 SF of drought tolerant ornamental landscaping that would cover 11.0 percent of the site as shown in Figure 3-3, *Landscape Plan*. Proposed landscaping would include 24-inch and 36-inch box trees, including Australian willow, Chinese pistache, and southern live oak, along the Project site's boundaries to screen the proposed building and truck court from offsite views. The Project would include additional box trees, shrubs, and groundcover throughout the Project site and around the proposed building to screen employee and customer parking areas.

The proposed Project includes an approximately 14-foot-high retaining and screen wall along the interior of the northern and southern truck courts (outside facing wall would be 8' with a landscaping berm), which would taper to a 6-foot-high screen wall along the northern property line outside of the truck court. The 14-foot-high screen walls would be 8 feet high facing the residences to the north of the Project site and facing the proposed private driveway to the south along the western property line and a portion of the southern property line, as shown in Figure 3-1, *Conceptual Site Plan*.

Infrastructure Improvements

Water and Sewer

The Project applicant would install 2-inch onsite water lines that would connect to the existing 27-inch diameter water line in Murrieta Road and would install a new 6-inch onsite sewer system that would connect to the existing 8-inch diameter sewer line in Murrieta Road. Locations of the proposed water and sewer lines are shown in Figure 3-4, *Sewer Plan*.

Drainage

The Project would install onsite storm drains that would flow to two proposed biotreatment modular wetland systems and eventually to a proposed underground storage chamber in the northeastern portion of the site. The two proposed biotreatment modular wetland systems would have a treatment capacity of approximately 50,240 cubic feet and the underground storage chamber would have a storage capacity of 154,076 cubic feet. In addition, the Project would include an offsite biotreatment modular wetland system with a treatment capacity of 0.693 cubic feet per second. The onsite drainage system would overflow into a proposed 72-inch to 84-inch storm drain (Line A-12) in Murrieta Road, which would connect to the existing Riverside County Flood Control channel north of Ethanac Road.

Street Improvements

The Project would pave Geary Street along the entire 990-foot Project frontage to a 40-foot width. The Project would pave the southbound portion of Murrieta Road to a 31-foot width along the entire 990-foot Project frontage with a 6:1 transition to the existing edge of the pavement north of the site and a 20:1 transition to the existing edge of the pavement south of the site. In addition, the Project would include construction of a 32-foot-wide private driveway along the entire 1,233.5-foot southern portion of the site. The Project would develop a 6-foot-wide sidewalk along Geary Street, Murrieta Road and the new driveway.

Offsite Improvements

The proposed Project would include improving the existing dirt road portion of Geary Street from the north end of the Project frontage to Ethanac Road. The offsite improvement and construction of Geary Street would include paving at a width of 36-feet and would not include construction of sidewalks or curbs.

Access and Circulation

Access to the proposed Project would be provided via two driveways from Geary Street and three driveways from Murrieta Road. Both driveways on Geary Street would be accessible by both passenger vehicles and trucks. The middle driveway on Murrieta Road would be limited to passenger vehicles only and would have a width of 30-feet. The driveways along Geary Street and the northern and southern driveways on Murrieta Road would have a width of 40-feet. The Project would include a 26-foot-wide fire access road throughout the site. The Project would include manual gates at the entrances to the truck court and loading dock area. In addition, the Project would include a 32-foot-wide private driveway along the southern boundary of the Project site.

Truck access to the Project site would primarily utilize Ethanac Road westbound, to Murrieta Road southbound. Truck traffic would access the site via the northern and southern driveways on Murrieta Road and would utilize the private truck only driveway along the south portion of the site to Geary Street northbound where all trucks would access the north driveway, while access to the southern driveway on Geary Street would be limited to 2-axle trucks only. Truck traffic would exit the site northbound on Murrieta Road via the northern most driveway with the provision of a traffic signal, and would exit the site via Geary Street northbound for the other driveways.

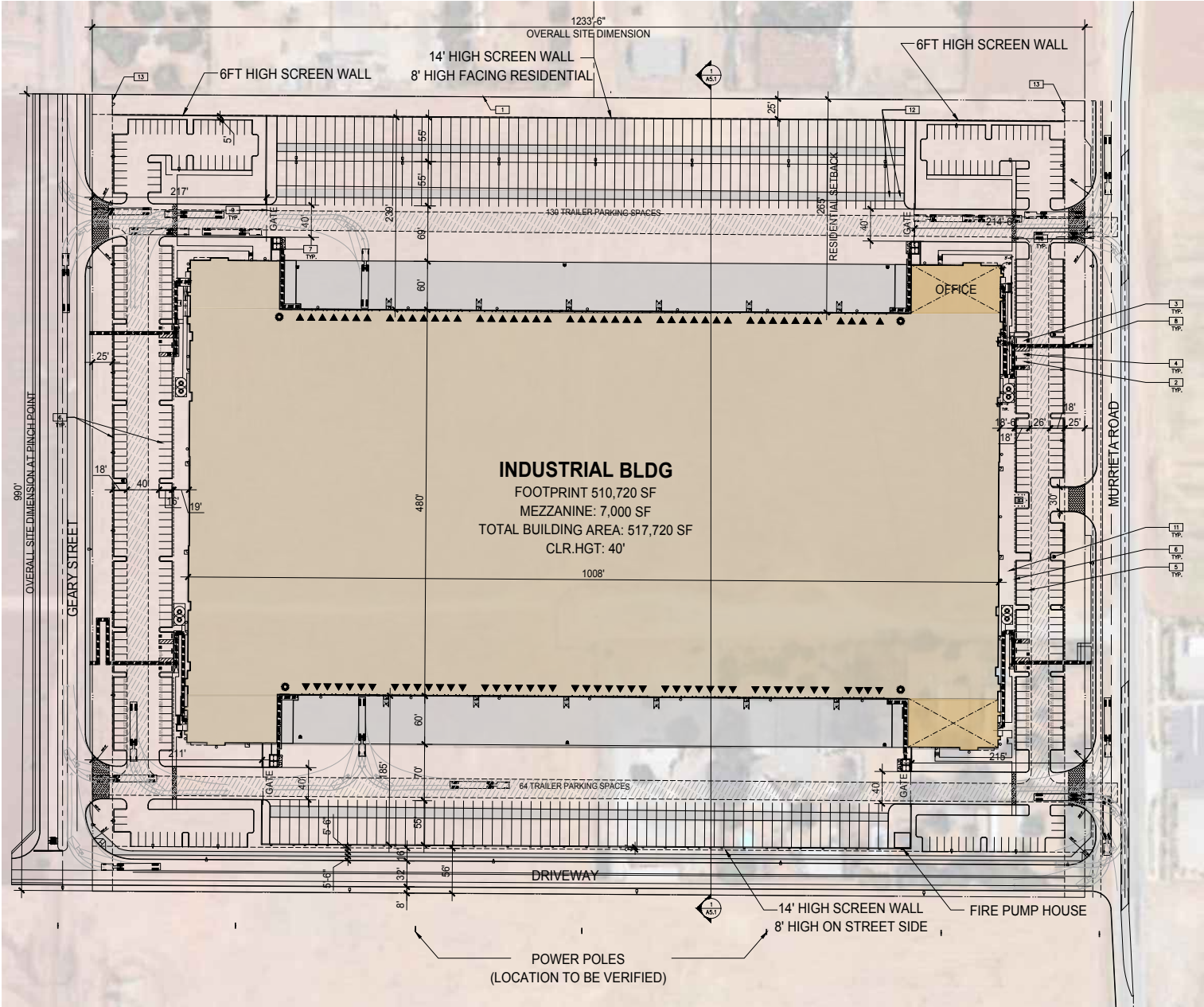
3.3 CONSTRUCTION

Construction activities for the Project would occur over one phase and in the following stages: (1) site preparation, which includes clearing any remaining infrastructure, utilities, and trenching for the

new utilities and services; (2) grading and excavation; (3) building construction; and (4) landscape installation, paving, and application of architectural coatings. Construction is expected to begin the first quarter of 2025 and last for 11 months. Project operations are expected to commence in 2026. Since the Project site is within a one-fourth mile radius from an occupied residence, construction shall be permitted Monday through Saturday from 6:30 a.m. to 7:00 p.m. and prohibited on Sunday or nationally recognized holidays unless approval is obtained from the City Building Official or City Engineer, pursuant to the City's Municipal Code Section 8.01.010.

Grading work of soils for the Project site would include approximately 163,600 cubic yards (CY) of cut and 192,000 CY of fill for a net import of 28,400 CY of soils. Construction activities include removal and re-compaction of soils to a depth of five feet below existing grade. Offsite grading work of soils would encompass an area of 4.5 acres and would include 2,050 CY of cut and 2,850 CY of fill for a net import of 800 CY of soil.

Conceptual Site Plan

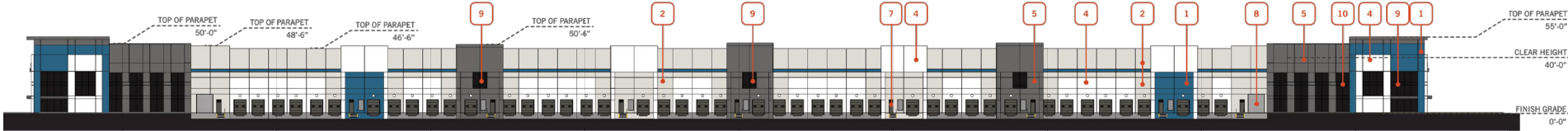


Ares Warehouse
 City of Menifee

Figure 3-1

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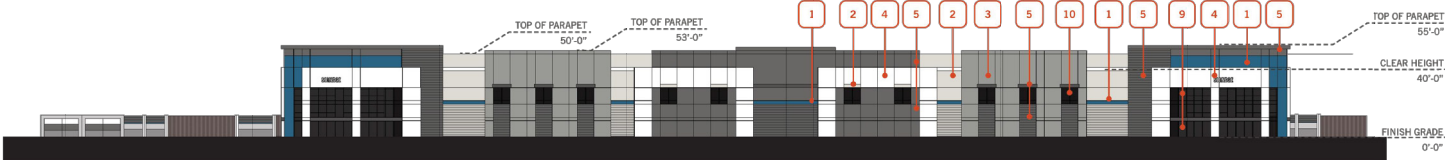
Building 1 Elevations



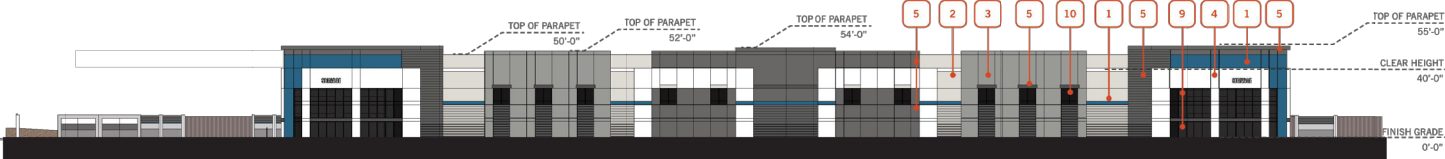
SOUTH ELEVATION 1" = 30'-0" SCALE



NORTH ELEVATION 1" = 30'-0" SCALE



WEST ELEVATION 1" = 30'-0" SCALE

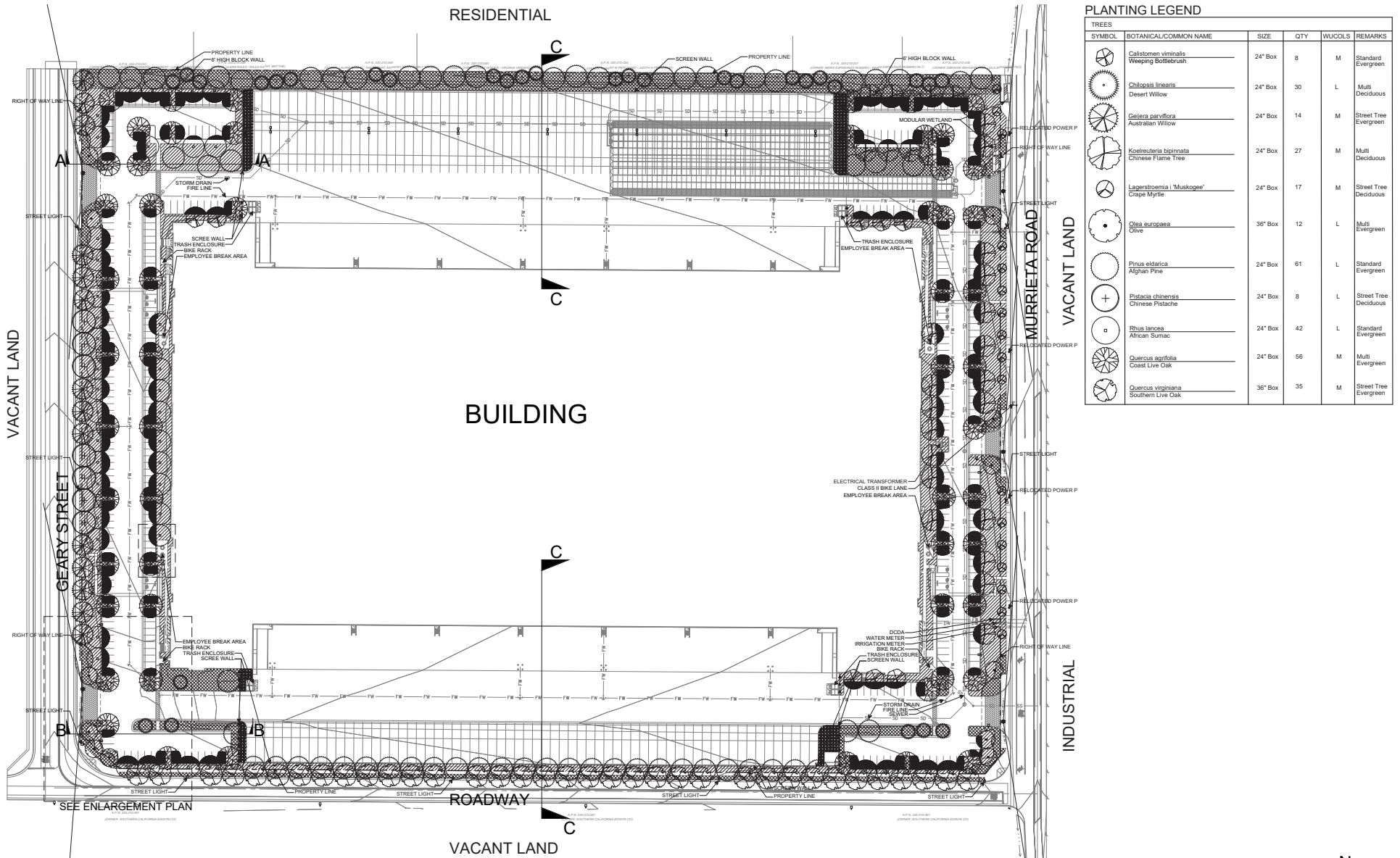


KEYNOTES

<p>1 SW6517 REGATTA</p> <p>2 SW7658 GRAY CLOUDS</p> <p>3 SW7076 CITYSCAPE</p> <p>4 SW7757 REFLECTIVE WHITE</p>	<p>5 SW7674 PEPPERCORN</p> <p>6 CONCRETE PANEL W/ HORIZONTAL REVEALS</p> <p>7 METAL DOOR, TYP</p> <p>8 12'X14' OVERSIZED DOCK DOOR</p>	<p>9 HIGH PERFORMANCE GLAZING W/ CLEAR ANNOZIZED ALUMINUM MULLION</p> <p>10 SPANDREL GLASS</p>
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Conceptual Landscape Plan



Ares Warehouse
City of Menifee

Figure 3-3



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3.4 OPERATIONS

The Project is analyzed as a speculative high-cube industrial warehouse. Typical operational characteristics include employees traveling to and from the site, delivery of materials and supplies to the site, and truck loading and unloading activities. The Project is analyzed to operate 7 days a week, 24 hours a day.

The building is designed such that business operations would be conducted within the building, with the exception of traffic movement, parking, trailer connection and disconnection, storage and the loading and unloading of trailers at designated loading bays. The outdoor cargo handling equipment used during loading, and unloading of trailers (e.g., yard trucks, hostlers, yard goats, pallet jacks, forklifts) would be non-diesel powered, per contemporary industry standards.

Dock doors operations are speculative and dependent on the future tenant of the proposed building. The dock doors that are in use at any given time are usually selected based on interior building operation efficiencies. As a result, typically not all dock door positions are occupied at the same time throughout the day. Pursuant to State law, on-road diesel-fueled trucks are required to comply with air quality and greenhouse gas emission standards, including but not limited to the type of fuel used, engine model year stipulations, aerodynamic features, and idling time restrictions.

3.5 PROJECT OBJECTIVES

The Murrieta Road Warehouse Project has been designed to meet a series of Project-specific objectives that have been carefully crafted in order to aid decision makers in their review of the Project and its associated environmental impacts. The primary purpose of the proposed Project is to develop a vacant or underutilized property with a speculative warehouse building to provide an employment-generating use to help grow the economy in the City of Menifee. The Project would achieve this goal through the following objectives:

1. To make efficient use of underutilized property in the City of Menifee by adding to its potential for employment-generating uses.
2. To attract new business and employment to Menifee and thereby promote economic growth.
3. To create new jobs to reduce the need for members of the local workforce to commute outside the Project vicinity to work.
4. To develop an underutilized property to host industrial uses as permissible under current land use and zoning code.
5. To develop a new industrial project that is located along, and would utilize, a designated truck route to limit truck traffic through residential neighborhoods.
6. To develop an underutilized property consistent with the current General Plan and zoning that is conveniently located in the vicinity of I-215 and has access to available infrastructure, including roads and utilities to accommodate the growing need for goods movement within the region.

3.6 DISCRETIONARY ACTION REQUESTED

The discretionary approval, permits, and studies are anticipated to be necessary for implementation of the Project include, but may not be limited to the following:

City of Menifee

- Development Plan (Plot Plan) Approval
- Adoption of an Environmental Impact Report with the determination that the EIR has been prepared in compliance with the requirements of CEQA.
- Approvals and permits necessary to execute the Project, including but not limited to, grading permit, building permit, etc.

Other Agencies

- A National Pollutant Discharge Elimination System (NPDES) permit from the Santa Ana Regional Water Quality Control Board (RWQCB)
- Permits to install and operate a diesel fire pump from the South Coast Air Quality Management District.
- Encroachment Permit from the Riverside County Flood Control and Water Conservation District
- Road Encroachment Permit from the City of Perris

4 ENVIRONMENTAL CHECKLIST

4.1 BACKGROUND

<p>Project Title: Murrieta Road Warehouse Project</p>
<p>Lead Agency: City of Menifee 29844 Haun Road Menifee, CA 92586</p>
<p>Lead Agency Contact: Brett Hamilton, Senior Planner (951) 723 3747</p>
<p>Project Location: The Project site is located in the northern portion of the City of Menifee within the County of Riverside. The site totals approximately 28.27 acres and is generally located west of Murrieta Road, east of Geary Street, south of Floyd Avenue, and north of McLaughlin Road. The Project site is identified as Assessor’s Parcel Numbers (APN) 330-210-010, -011, -013, -062 and 330-560-001 through 330-560-040, 330-570-001 through 330-570-033, and 330-571-001 through 330-571-005. Regional access to the Project site is provided by Interstate 215 (I-215) off the Ethanac Road exit. Local Access to the site is provided by Geary Street and Murrieta Road. The existing site and surrounding area are shown in Figure 2-1, <i>Regional Location</i>, and Figure 2-2, <i>Local Vicinity</i>.</p>
<p>Project Sponsor’s Name and Address: IPT Menifee CC LLC 4675 MacArthur Court, Suite 625 Newport Beach, CA 92660</p>
<p>General Plan and Zoning Designation: The 28.27-acre Project site has a General Plan Land Use designation of Economic Development Corridor (EDC) and a zoning designation of Economic Development Corridor – Northern Gateway (EDC – NG). The EDC land use designation allows for development of industrial uses at up to a 1.0 floor area ratio (FAR). The EDC-NG zone is intended to allow for development of a business park area with more intensive industrial uses with less office than envisioned for the Scott Road EDC area. It is envisioned as a buffer and transition between the commercial/residential uses in Perris to the north and the residential uses in Menifee, south of McLaughlin Road. Warehouses are a permitted use in the EDC - NG zone.</p>
<p>Project Description: The Murrieta Road Warehouse Project (Project) proposes development of an approximately 517,720-square foot (SF) speculative warehouse building with a FAR of 0.48. The environmental analysis includes a development buffer in order to account for final design changes, equivalent to three percent of the building square footage, or 15,532 SF, which would result in a building area of 533,252 SF on a 28.27-acre site within the City of Menifee. Additional improvements include a parking lot and loading docks, ornamental landscaping, associated onsite infrastructure, and construction of offsite street improvements.</p>
<p>Surrounding Land Uses and Setting: North: Single-family residences. West: Geary Street followed by vacant land. South: Southern California Edison utility corridor followed by McLaughlin Road.</p>

East: Murrieta Road followed by vacant land and a modular office building dealer lot.

Other Public Agencies Whose Approval is Required:

South Coast Air Quality Management District
Santa Ana Regional Water Quality Control Board
Riverside County Flood Control and Water Conservation District

Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

Assembly Bill (AB) 52 (Chapter 532, Statutes of 2014) establishes a formal consultation process for California tribes as part of the CEQA process and equates significant impacts on “tribal cultural resources” with significant environmental impacts (PRC Section 21084.2). AB 52 requires that lead agencies undertaking CEQA review evaluate, just as they do for other historical and archeological resources, a project’s potential impact to a tribal cultural resource. In addition, AB 52 requires that lead agencies, upon request of a California Native American tribe, begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report for a project.

AB 52 notices were sent on November 22, 2022, to California Native American tribes traditionally and culturally affiliated with the Project area. Two tribes submitted written consultation requests: Rincon Band of Luiseno Indians (RBLI) and Pechanga Band of Indians (PBI). RBLI was provided with additional information and subsequently concluded consultation. The City of Menifee has quarterly consultation meetings with PBI and discussed the proposed Project on January 23, 2023, and on April 13, 2023. Agua Caliente Band of Cahuilla Indians requested additional information and had no further comments. The City of Menifee also held a quarterly consultation meeting with Soboba Band of Luiseño Indians to discuss the Project on January 26, 2023.

4.2 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The subject areas checked below were determined to be new significant environmental effects or to be previously identified effects that have a substantial increase in severity either due to a change in project, change in circumstances or new information of substantial importance, as indicated by the checklist and discussion on the following pages.

<input type="checkbox"/>	Aesthetics	<input checked="" type="checkbox"/>	Agriculture & Forestry Resources	<input checked="" type="checkbox"/>	Air Quality
<input checked="" type="checkbox"/>	Biological Resources	<input checked="" type="checkbox"/>	Cultural Resources	<input checked="" type="checkbox"/>	Energy
<input type="checkbox"/>	Geology /Soils	<input checked="" type="checkbox"/>	Greenhouse Gas Emissions	<input checked="" type="checkbox"/>	Hazards & Hazardous Materials
<input checked="" type="checkbox"/>	Hydrology / Water Quality	<input checked="" type="checkbox"/>	Land Use / Planning	<input type="checkbox"/>	Mineral Resources
<input checked="" type="checkbox"/>	Noise	<input type="checkbox"/>	Population / Housing	<input checked="" type="checkbox"/>	Public Services
<input type="checkbox"/>	Recreation	<input checked="" type="checkbox"/>	Transportation	<input checked="" type="checkbox"/>	Tribal Cultural Resources
<input checked="" type="checkbox"/>	Utilities / Service Systems	<input checked="" type="checkbox"/>	Wildfire	<input checked="" type="checkbox"/>	Mandatory Findings of Significances

4.3 DETERMINATION

On the basis of this initial evaluation

- I find that the Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the Project MAY have a “potentially significant” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier analysis pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

4.4 EVALUATION OF ENVIRONMENTAL IMPACTS

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including offsite as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Potentially Significant Unless Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from “Earlier Analysis,” as described in (5) below, may be cross-referenced).
- 5) Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Guidelines Section 15063 (c)(3)(d). In this case, a brief discussion should identify the following:
 - (a) Earlier Analysis Used. Identify and state where they are available for review.
 - (b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - (c) Mitigation Measures. For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
- 9) The analysis of each issue should identify: (a) the significance criteria or threshold used to evaluate each question; and (b) the mitigation measure identified, if any, to reduce the impact to less than significance.

5 ENVIRONMENTAL ANALYSIS

This section provides evidence to substantiate the conclusions in the environmental checklist.

5.1 AESTHETICS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Less than Significant Impact. Scenic vistas consist of expansive, panoramic views of important, unique, or highly valued visual features that are seen from public viewing areas. This definition combines visual quality with information about view exposure to describe the level of interest or concern that viewers may have for the quality of a particular view or visual setting. A scenic vista can be impacted in 2 ways: a development project can have visual impacts by either directly diminishing the scenic quality of the vista or by blocking the view corridors or “vista” of the scenic resource. Important factors in determining whether a proposed project would block scenic vistas include the project’s proposed height, mass, and location relative to surrounding land uses and travel corridors. The City of Menifee General Plan EIR designates views of the San Jacinto Mountains to the northeast and east; the San Bernardino Mountains to the north; the San Gabriel Mountains to the northwest; and the Santa Ana Mountains to the west and southwest as scenic vistas.

The Project site is comprised of vacant, but previous developed land. Distant views of the surrounding foothills of the San Bernardino Mountains to the north, Santa Ana Mountains to the west, and the San Jacinto Mountains to the east are available from public vantage points on Geary Street and Murrieta Road, which border the Project site. The proposed Project would develop a new warehouse totaling 533,252 SF and measure a maximum height of 55 feet. The Project would comply with setback standards as required by Section 9.140.040 of the City Municipal Code, as shown in Table AES-1. Therefore, the Project does not encroach upon views of the neighboring mountains and foothills from pedestrians and motorists along public vantage points and impacts would be less than significant. This topic will not be evaluated further in the forthcoming EIR.

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

No Impact. There are no officially designated State scenic highways adjacent to the Project site. The closest Eligible State Scenic Highway according to the California Department of Transportation (Caltrans) is a portion of State Route 74 (SR-74), located approximately 1.4 miles northeast of the Project site. The Project site is not visible from either of these locations. Therefore, the Project would not result in any impacts scenic resource within a state scenic highway and this topic will not be evaluated in the forthcoming EIR.

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

Less than Significant Impact. The Project would change the scenic quality of the site from a vacant, previous developed site and would construct a new 533,252 SF warehouse building with parking lots, ornamental landscaping, associated infrastructure, and offsite street improvements. The Project site is bounded by undeveloped land, a commercial use property, and single-family residences. The Project site and its surrounding vicinity have a land use designation of Economic Development Corridor. As detailed in the City’s Land Use background document and definitions report, this designation is intended to accommodate the majority of the City’s new industrial development, in order to preserve other rural areas considered integral to the community character. The zoning designation for the Project site and vicinity is Economic Development Corridor – Northern Gateway (EDC – NC). The intention for this zone is to provide an industrial park area with more intensive industrial uses. Although the existing area is vacant and undeveloped, the Project is consistent with the EDC – NG zoning development standards as summarized in Table AES-1 below. Therefore, the Project would not conflict with applicable zoning regulations and impacts would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

Table AES-1: Consistency with Site Development Standards

Development Feature	EDC – NG Zoning Requirement	Project
Minimum Net Lot Area	15,000 SF	1,073,067 SF
Maximum FAR	1.0	0.50
Setbacks:		
Front	25 ft	105.5 ft
Street Side	15 ft	125 ft, 113 ft
Adjacent to Residential	25 ft	205 ft, (265 ft to dock doors)
Maximum Height	100 ft	55 ft
Minimum Landscaping	10%	11%
Maximum Fence or Hedge Height screening outdoor storage	12 ft	8 ft

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

Less than Significant Impact. Spill light occurs when lighting fixtures such as streetlights, parking lot lighting, exterior building lighting, and landscape lighting are not properly aimed or shielded

to direct light to the desired location and light escapes and partially illuminates a surrounding location. Sensitive uses (e.g., residential uses) surrounding the Project site could be impacted by the light from development within the boundaries of the Project site if light spill occurs.

Glare is the result of improperly aimed or blocked lighting sources that are visible against a dark background such as the night sky. Glare may also refer to the sensation experienced looking into an excessively bright light source that causes a reduction in the ability to see or causes discomfort. Glare generally does not result in illumination of off-site locations but results in a visible source of light viewable from a distance. Glare could also occur from building materials of the new structures, including glass and other reflective materials.

The Project site is currently vacant. Thus, there is no existing light and glare generated from the site. The Project would introduce new sources of light from new building security lighting, streetlights within the Project area, interior lights shining through building windows, and headlights from nighttime vehicular trips generated from the Project. Lighting would also be used during the construction phase for site security. Thus, the Project would increase lighting and glare compared to the existing condition. However, the Project would be subject to Sections 6.01.020 and 6.01.040 of the City Municipal Code, which requires lighting to be shielded, diffused or indirect to avoid glare to both on and offsite pedestrians and motorists. Thus, significant impacts would be less than significant and this topic will not be evaluated further in the forthcoming EIR.

5.2 AGRICULTURE AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

Potentially Significant Impact Less Than Significant with Mitigation Incorporated Less Than Significant Impact No Impact

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Potentially Significant Impact. The State of California Department of Conservation's Farmland Mapping and Monitoring Program is charged with producing maps for analyzing impacts on the state's agricultural resources. California's agricultural lands are rated based on soil quality and irrigation status. For CEQA purposes, the following categories qualify as "agricultural land": Prime Farmland, Farmland of Statewide Importance, Unique Farmland, Farmland of Local Importance, and Grazing Land.

The Project site is identified by the Farmland Mapping and Monitoring Program as "Farmland of Local Importance" on the western half and "Other Land" on the eastern half. The site is currently vacant. The northern portion of the site has historically been used for agricultural uses. The parcels

to the east of the Project site past Murietta Road are designated as Prime Farmland and Farmland of Statewide Importance. As stated in the City of Menifee's General Plan EIR, Farmland of Local Importance is considered to be "Important Farmland" by the City. Although the proposed Project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use, the Project would be converting Farmland of Local Importance to non-agricultural uses. Therefore, impacts are potentially significant and would be evaluated in the forthcoming EIR.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. The Williamson Act (California Land Conservation Act of 1965) restricts the use of agricultural and open space lands to farming and ranching by enabling local governments to contract with private landowners for indefinite terms in exchange for reduced property tax assessments. The Project site is designated as EDC by the City of Menifee General Plan, which is not intended for agricultural use and is intended as a "business park development with more traditional industrial uses (less office)." According to Menifee Municipal Code Section 9.140.030, the purpose of the EDC-NG Zone is to provide a buffer and transition between commercial and residential uses in Perris and Menifee, respectively. Warehousing, logistics, and distribution centers are a permitted use within the EDC-NG zone. Therefore, there would be no impacts, and this topic will not be evaluated in the forthcoming EIR.

The Project site is not under an active Williamson Act contract. Therefore, development of the proposed Project would not result in the cancellation of the contract, and impacts related to a Williamson Act contract would not occur and this topic will not be evaluated in the forthcoming EIR.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. "Forest land" is defined as "land that can support 10 percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits." "Timberland" is defined as "land, other than land owned by the federal government and land designated by the board as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees." "Timberland Production Zone" (TPZ) is defined as "an area which has been zoned pursuant to Section 51112 or 51113 and is devoted to and used for growing and harvesting timber, or for growing and harvesting timber and compatible uses, as defined in subdivision (h)."

The Project site is designated as EDC-NG and is not zoned for forest land, timberland, or TPZ. Further, the Project site is located in an urbanizing area of the County and there is no forest land or forest resources on or in proximity to the Project site. Therefore, the proposed Project would not result in impacts to forests or timberlands. Therefore, this topic will not be evaluated in the forthcoming EIR.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. The Project site is not zoned as forest land and is located in an urbanizing area of the County. Additionally, the land on the Project site does not qualify as forest land as defined in Public Resources Code section 12220(g). Neither the General Plan nor the City's Zoning Code provides designations for forest land. There is no forest land or forest resources on or in proximity to the Project site. Consequently, the proposed Project would not result in the loss or conversion of forest land to non-forest use. Therefore, this topic will not be evaluated in the forthcoming EIR.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

Potentially Significant Impact. The Project site is currently vacant and previously developed and the site, and the vicinity, are not designated forest land by the General Plan. Thus, the proposed Project would not convert forest land to non-forest uses. However, the State of California Department of Conservation's Farmland Mapping and Monitoring Program designates the Project site as Farmland of Local Importance and areas across Murrieta Road are designated as Prime Farmland and Farmland of Statewide Importance. Therefore, potential impacts will be further evaluated in the forthcoming EIR.

5.3 AIR QUALITY

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Expose sensitive receptors to substantial pollutant concentrations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) Conflict with or obstruct implementation of the applicable air quality plan?

Potentially Significant Impact. The City of Meniffee is located within the South Coast Air Basin (Basin). The Basin includes all of Orange County and portions of Los Angeles, Riverside, and San Bernardino Counties. Air quality within the Basin is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD) and the California Air Resources Board (CARB). Standards for air quality within the Basin are documented in the SCAQMD’s Air Quality Management Plan (AQMP). The main purpose of an AQMP is to describe air pollution control strategies to be taken by a city, county, or region classified as a nonattainment area in order to bring the area into compliance with federal and State air quality standards. SCAQMD’s 2022 AQMP is based on regional growth forecasts for the Southern California Association of Governments (SCAG) region. Whether the proposed Project would exceed the growth assumptions in the AQMP is, in part, based on projections from local general plans. The Meniffee General Plan Land Use Element, adopted in 2013, designates the site as EDC. The proposed Project would be consistent with the General Plan; therefore, the Project would be consistent with the AQMP regional growth forecasts for the SCAG region.

A project is consistent with the regional AQMP if it does not create new violations of clean air standards, exacerbate any existing violations, or delay a timely attainment of such standards. Construction of the Project would generate exhaust from construction equipment and vehicle trips, fugitive dust from demolition and ground-disturbing activities, and off-gas emissions from architectural coatings and paving. The proposed Project would also result in the emission of pollutants into the Basin during Project operation from vehicle and truck trips, and stationary sources. The emission of pollutants resulting from construction (short-term) and operation (long-term) of the proposed Project have the potential to affect implementation of the AQMP. Therefore, the forthcoming EIR will evaluate any impacts the proposed Project may have on the attainment of regional air quality objectives. Mitigation measures will be recommended as needed.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality

standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Potentially Significant Impact. The Basin is designated under the California and National Ambient Air Quality Standards (NAAQS) as nonattainment for ozone (O₃), coarse inhalable particulate matter (PM₁₀), fine inhalable particulate matter (PM_{2.5}), and nitrogen oxides (NO_x) (California standard only).

Air quality impacts are divided into short-term construction and long-term operational impacts. Short-term impacts are the result of demolition, grading, and/or construction operations, which would be regulated by SCAQMD Rules 401 and 403. Long-term impacts are associated with the long-term operations of the Project. Implementation of the proposed Project may increase existing levels of criteria pollutants and contribute to their nonattainment status in the Basin during both construction and operational activities. Thus, an air quality analysis will be prepared to determine if the proposed Project would result in a cumulatively considerable net increase in any criteria air pollutant. This topic will be addressed in the forthcoming EIR, and mitigation measures will be recommended as needed.

c) Expose sensitive receptors to substantial pollutant concentrations?

Potentially Significant Impact. Development pursuant of the proposed Project has the potential to expose sensitive receptors near the Project site and along its primary truck routes to emissions from mobile sources (i.e., trucks and car exhaust). The nearest sensitive receptors are single family residences directly adjacent to the north of the Project site and approximately 365 feet south of the Project site. Additionally, the I Can Preschool and Child Care is located approximately 0.3 miles southeast of the site. Due to the presence of sensitive receptors in the vicinity and the volume of truck traffic from development pursuant to the proposed Project, there is the potential to expose nearby sensitive receptors to substantial pollutant concentrations. Therefore, this topic will be further evaluated in the forthcoming EIR.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. The proposed Project would not emit other emissions, such as those generating objectionable odors, that would affect a substantial number of people. The threshold for odor is identified by SCAQMD Rule 402, Nuisance, which states:

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

The type of facilities that are considered to result in other emissions, such as objectionable odors, include wastewater treatments plants, compost facilities, landfills, solid waste transfer stations, fiberglass manufacturing facilities, paint/coating operations (e.g., auto body shops), dairy farms, petroleum refineries, asphalt batch plants, chemical manufacturing, and food manufacturing facilities. Odors generated by the operation of the Project are not expected to be significant or

highly objectionable and would be required to be in compliance with SCAQMD Rule 402, which would prevent nuisances to sensitive land uses.

During construction, emissions from construction equipment, architectural coatings, and paving activities may generate odors. However, these odors would be temporary, intermittent in nature, and not expected to affect a substantial number of people. Additionally, noxious odors would be confined to the immediate vicinity of the construction equipment. By the time such emissions reach any residences, they would be diluted to well below any level of odor concern. Furthermore, short-term construction-related odors are expected to cease upon the drying or hardening of the odor-producing materials.

During operations, trucks and vehicles operating at the loading docks may emit odor. A southern California study (Zhu, 2002) showed measured concentrations of vehicle-related pollutants, including diesel exhaust, decreased dramatically (more than 90%) within approximately 300 feet. In addition, all Project-generated solid waste would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations and would not generate objectionable odors. Therefore, impacts associated with operation- and construction-generated odors would be less than significant, and no further analysis is required in the forthcoming EIR.

5.4 BIOLOGICAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Wildlife or U.S. Fish and Wildlife Service?

Potentially Significant Impact. The Project site is vacant, previously developed, and vegetated with grasses throughout a majority of the site.. The vegetation on the site could provide habitat for candidate, sensitive, or special status plant or wildlife species. As a result, a biological assessment will be prepared to evaluate whether the proposed Project has the potential to result in a substantial adverse effect on candidate, sensitive, or special status species. This topic will be analyzed in the forthcoming EIR and mitigation measures will be recommended, as needed.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Potentially Significant Impact. A biological assessment will be conducted by a professional biologist to determine if the site has the potential to contain a riparian habitat or other sensitive

natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service. This topic will be addressed in the forthcoming EIR, and mitigation measures will be recommended, as needed.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. No known federally or state protected wetlands are present on the Project site as seen on the National Wetlands Inventory Wetlands Mapper. This topic will not be addressed in the forthcoming EIR.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Potentially Significant Impact. A biological assessment will be conducted by a professional biologist to determine whether a migratory wildlife corridor exists on the site and if the proposed Project has the potential to impact the corridor.

In addition, the Project site includes vacant, previously developed land that could be used for nesting by common bird species that are protected by the federal Migratory Bird Treaty Act (MBTA) and the California Fish and Game Code Sections 3503.5, 3511, and 3515. Therefore, the proposed Project's potential impacts to migratory birds during construction and operation will be evaluated in the forthcoming EIR.

e) Conflict with any local policies or ordinances protecting biological resources?

No Impact. The City of Menifee Municipal Code Chapter 9.200 regulates tree protection and care with the purpose of maintaining a healthy urban forest in the city and to ensure the protection of trees during development and redevelopment of properties in the City. The section is intended to implement an effective urban forestry program to protect the health, safety, and welfare of the community. Section 9.200.010 of the City of Menifee Municipal Code defines heritage trees as those with certain characteristics (age, size, species, location, historical influence, aesthetic quality or ecological value). However, there are no trees located on the Project site. Therefore, the proposed Project activities would not impact heritage or protected trees and no conflict with local policies or ordinances protecting biological resources would occur. This topic will not be further evaluated in the forthcoming EIR.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Potentially Significant Impact. The Project site is within the boundaries of the Western Riverside County Multi-Species Habitat Conservation Plan (MSHCP). The Project site is not located within a MSHCP Cell Group or a Criteria Cell. However, it is located within areas requiring habitat assessments for the burrowing owl (Section 6.3.2-Additional Survey Needs and Procedures) and Narrow Endemic Plant Species (Section 6.1.3- Narrow Endemic Plants). Therefore, a biological assessment pursuant to the requirements of the MSHCP will be prepared and the potential impacts of the proposed Project related to the MSHCP will be evaluated in the forthcoming EIR.

5.5 CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

No Impact. State CEQA Guidelines Section 15064.5 defines historic resources as resources listed or determined to be eligible for listing by the State Historical Resources Commission, a local register of historical resources, or the lead agency. Generally, a resource is considered “historically significant” if it meets one of the following criteria:

- i. Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage;
- ii. Is associated with the lives of persons important in our past;
- iii. Embodies the distinctive characteristics of a type, period, region or method of construction, or represents the work of an important creative individual, or possesses high artistic values;
- iv. Has yielded, or may be likely to yield, information important in prehistory or history.

The proposed Project area had been previously developed with modular residential structures in the southeast portion of the site. The residences have been demolished and the Project site is currently vacant. Due to the lack of onsite structures or distinctive characteristics listed above, buildout of the proposed Project would not result in any impacts to historical resources. Therefore, this topic will not be further evaluated in the forthcoming EIR.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Potentially Significant Impact. Although the Project site soils have been previously disturbed by agricultural activities, ground-disturbing activities of the proposed Project have the potential to uncover previously undiscovered archaeological resources. Therefore, it is possible that unidentified archaeological resources are located within the Project site. Thus, an archaeological resources assessment will be prepared as part of the forthcoming EIR and will include a literature review, records search, and site survey. Results of the archaeological resources assessment will be included in the forthcoming EIR, and mitigation measures will be recommended, as needed.

c) Disturb any human remains, including those interred outside of formal cemeteries?

Less Than Significant Impact. The Project site does not contain a cemetery; however, the Menifee Valley Cemetery is a known formal cemetery located approximately 0.45 miles southeast of the Project site. Therefore, should human remains be unearthed during grading and excavation activities associated with development of the proposed Project, the construction contractor would be required by California law to comply with California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98. According to Section 7050.5(b) and (c), if human remains are discovered, the County Coroner must be contacted and if the coroner recognizes the human remains to be those of a Native American or has reason to believe that they are those of a Native American, the Coroner is required to contact the Native American Heritage Commission (NAHC) by telephone within 24 hours. Pursuant to California Public Resources Code Section 5097.98, whenever the NAHC receives notification of a discovery of Native American human remains from a county coroner, the NAHC is required to immediately notify those persons it believes to be most likely descended from the deceased Native American. The descendants may, with the permission of the owner of the land, or his or her authorized representative, inspect the site of discovery of the Native American human remains and may recommend to the owner or the person responsible for the excavation work means for treatment or disposition, with appropriate dignity, of the human remains and any associated grave goods. The descendants shall complete their inspection and make recommendations or preferences for treatment within 48 hours of being granted access to the site. According to Public Resources Code Section 5097.98(k), the NAHC is authorized to mediate disputes arising between landowners and known descendants relating to the treatment and disposition of Native American human burials, skeletal remains, and items associated with Native American burials. Furthermore, unless otherwise required by law, the site of any reburial of Native American human remains or associated grave goods shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The coroner, parties, and Lead Agency would be asked to withhold public disclosure information related to such reburial, pursuant to the specific exemption set forth in California Government Code 6254 (r).

Through mandatory compliance with California Health and Safety Code Section 7050.5, Public Resources Code Section 5097.98, and California Government Code 6254, as implemented through City standard conditions, the proposed Project would not result in significant impacts to human remains, and impacts would be less than significant. Therefore, the Project would result in a less than significant impact related to disturbance of human remains, and this topic will not be further evaluated in the forthcoming EIR.

5.6 ENERGY

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Potentially Significant Impact. During construction of the Project, energy would be consumed in three general forms:

1. Petroleum-based fuels used to power off-road construction vehicles and equipment on the project sites, construction worker travel to and from the project sites, as well as delivery truck trips;
2. Electricity associated with providing temporary power for lighting and electric equipment; and
3. Energy used in the production of construction materials, such as asphalt, steel, concrete, pipes, and manufactured or processed materials such as lumber and glass.

Once operational, the proposed warehouse would generate demand for electricity, natural gas, as well as gasoline for motor vehicle trips. Operational use of energy would include the heating, cooling, and lighting of the building, water heating, operation of electrical systems and plug-in appliances within the building, parking lot and outdoor lighting, and the transport of electricity, natural gas, and water to the areas where they would be consumed.

The forthcoming EIR will quantify the amount of energy that would be used by both construction and operation of the proposed Project to identify if wasteful, inefficient, or unnecessary consumption of energy resources would occur from implementation of the proposed Project. Mitigation measures will be recommended, as needed.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Potentially Significant Impact. The State of California has established a comprehensive framework for the use of efficient energy. This occurs through the implementation of the Clean Energy and Pollution Reduction Act of 2015 (SB 350), Assembly Bill (AB) 1007 (Pavley 2007), Title 24 Energy Efficiency Standards, and the California Green Building Standards. The proposed Project would result in an increase in energy use. Therefore, the forthcoming EIR will further evaluate the energy use by the proposed Project and evaluate its consistency with the applicable plans and policies.

5.7 GEOLOGY AND SOILS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

- i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?***

No Impact. In 1972, the Alquist-Priolo Special Studies Zones Act was signed into law. In 1994, it was renamed the Alquist-Priolo Earthquake Fault Zoning Act (A-P Act). The primary purpose of the Act is to mitigate the hazard of fault rupture by prohibiting the location of structures for human occupancy across the trace of an active fault. The A-P Act requires the State Geologist (Chief of the California Geology Survey) to delineate “Earthquake Fault Zones” along with faults that are “sufficiently active” and “well-defined.” The boundary of an “Earthquake Fault Zone” is generally about 500 feet from major active faults and 200 to 300 feet from well-defined minor faults. The A-P Act dictates that cities and counties withhold development permits for sites within an Alquist-

Priolo Earthquake Fault Zone until geologic investigations demonstrate that the site zones are not threatened by surface displacements from future faulting.

According to the Menifee General Plan Figure 5.6-2, *Fault Map*, and the USGS U.S. Quaternary Faults Finder there are no active or potentially active faults known on the site or in the City of Menifee. Therefore, development of the proposed Project would not expose people or structures to potential substantial adverse effects, including the risk or loss, injury, or death. Therefore, any impacts related to rupture of a known fault lines would not occur and will not be further evaluated in the forthcoming EIR.

ii. Strong seismic ground shaking?

Less Than Significant Impact. According to the Menifee General Plan Fault Map and the USGS U.S. Quaternary Faults Finder there are no active or potentially active faults known on the site or in the City of Menifee. However, ground shaking could still occur as a result from faults in the Elsinore Fault zone approximately 10 miles southwest, the San Jacinto zone approximately 11 miles northeast, and the San Andreas fault zone located 25 miles to the northeast. The proximity of the site to the active faults will result in ground shaking during moderate to severe seismic events. However, structures built in the City are required to be built in compliance with the California Building Code (CBC) (California Code of Regulations, Title 24, Part 2) that provides provisions for earthquake safety based on factors including building occupancy type, the types of soils onsite, and the probable strength of ground motion. Compliance with the CBC would require the incorporation of: 1) seismic safety features to minimize the potential for significant effects as a result of earthquakes; 2) proper building footings and foundations; and 3) construction of the building structure so that it would withstand the effects of strong ground shaking.

The proposed Project would also be developed in compliance with the Menifee Municipal Code, the recommendations of the Geotechnical Investigation (included as Appendix A to this Initial Study), and all other ordinances adopted by the City related to construction and safety. The Menifee Building and Safety Division would review the building plans through building plan checks, issuance of a building permit, and inspection of the building during construction, which would ensure that all required CBC seismic safety measures are incorporated into the building. Compliance with the CBC as verified by the City's review process, would reduce impacts related to strong seismic ground shaking to a less than significant level, and impacts related to ground shaking will not be further evaluated in the forthcoming EIR.

iii. Seismic-related ground failure, including liquefaction?

Less than Significant Impact. Soil liquefaction is a phenomenon in which saturated, cohesionless soils layers, located within approximately 50 feet of the ground surface, lose strength due to cyclic pore water pressure generation from seismic shaking or other large cyclic loading. During the loss of stress, the soil acquires "mobility" sufficient to permit both horizontal and vertical movements. Soil properties and soil conditions such as type, age, texture, color, and consistency, along with historical depths to ground water are used to identify, characterize, and correlate liquefaction susceptible soils.

Soils that are most susceptible to liquefaction are clean, loose, saturated, and uniformly graded fine-grained sands that lie below the groundwater table within approximately 50 feet below ground surface. Lateral spreading is a form of seismic ground failure due to liquefaction in a subsurface layer.

According to Exhibit S-3, *Liquefaction and Landslides*, of the Menifee General Plan Safety Element, the Project site is not identified as being within an area susceptible to liquefaction (City of Menifee 2013). In addition, the subsurface conditions encountered at the boring locations for the Geotechnical Investigation are not considered to be conducive to liquefaction. These conditions consist of mostly dense to very dense sandy soils with no evidence of a long-term groundwater table within the depths explored by the borings. Based on these considerations, liquefaction is not considered to be a design concern for this Project (SoCalGeo 2021). Additionally, compliance with the CBC as verified by the City's review process and included as a condition of approval, would reduce impacts related to seismic related ground failure to a less than significant level. Therefore, a less than significant impact related to seismic related ground failure would occur and this topic will not be addressed in the forthcoming EIR.

iv. Landslides?

No Impact. Landslides are the downhill movement of masses of earth and rock and are often associated with earthquakes; but other factors, such as the slope, moisture content of the soil, composition of the subsurface geology, heavy rains, and improper grading can influence the occurrence of landslides. As described above, the Project site is located in a seismically active region subject to strong ground shaking. However, the Project site is located in a flat area that does not contain nor is adjacent to large slopes, and the Project would not generate large slopes. As a result, implementation of the proposed Project would not expose people or structures to substantial adverse effects involving landslides, and impacts related to landslides would not occur and will not be further evaluated in the forthcoming EIR.

b) Result in soil erosion or the loss of topsoil?

Less than Significant Impact. Construction of the proposed Project has the potential to contribute to soil erosion and the loss of topsoil. Grading activities that would be required for the proposed Project would expose and loosen topsoil, which could be eroded by wind or water. To reduce the potential for soil erosion and the loss of topsoil, construction activities would require a Storm Water Pollution Permit (SWPPP), which is mandated by the National Pollution Discharge Elimination System (NPDES) General Construction Permit (included as PPP WQ-1 herein) and enforced by the Santa Ana Regional Water Quality Control Board (RWQCB). The SWPPP is required to address site-specific conditions related to specific grading and construction activities that could cause erosion and the loss of topsoil and provide erosion control best management practices (BMPs) to reduce or eliminate the erosion and loss of topsoil. Erosion control BMPs include use of silt fencing, fiber rolls, or gravel bags, stabilized construction entrance/exit, hydroseeding, etc. Compliance with State and federal requirements would ensure that the Project would have a less than significant impact related to soil erosion or loss of topsoil.

Additionally, the proposed Project includes installation of landscaping adjacent to the proposed building and throughout the proposed parking areas. With this landscaping, areas of loose topsoil that could be eroded by wind or water would not exist upon operation of the proposed Project. In addition, the hydrologic features of the Project have been designed to slow, filter, and retain stormwater within landscaping and the proposed underground storage chamber system which would also reduce the potential for stormwater to erode topsoil. Furthermore, implementation of the proposed Project requires County approval of a Water Quality Management Plan (WQMP), which would ensure that RWQCB requirements and appropriate operational BMPs would be implemented

to minimize or eliminate the potential for soil erosion or loss of topsoil to occur. As a result, with implementation of existing requirements, impacts related to substantial soil erosion or loss of topsoil would be less than significant. This topic will not be addressed in the forthcoming EIR.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?

Less than Significant Impact. As described above, landslides are the downhill movement of masses of earth and rock and are often associated with earthquakes; but other factors, such as the slope, moisture content of the soil, composition of the subsurface geology, heavy rains, and improper grading can influence the occurrence of landslides. The Project site and the adjacent parcels are relatively flat, with a slight slope in the southeasterly direction, and do not contain any hills or steep slopes. As such, no landslides on or adjacent to the Project site would occur. Therefore, impacts related to landslides or rock falls would not occur from implementation of the Project.

Lateral spreading is a type of liquefaction induced ground failure associated with the lateral displacement of surficial blocks of sediment resulting from liquefaction in a subsurface layer. Once liquefaction transforms the subsurface layer into a fluid mass, gravity plus the earthquake inertial forces may cause the mass to move downslope towards a free face (such as a river channel or an embankment). Lateral spreading may cause large horizontal displacements and such movement typically damages pipelines, utilities, bridges, and structures. According to Exhibit S-3, *Liquefaction and Landslides*, of the Menifee General Plan Safety Element, the Project site is not identified as being within an area susceptible to liquefaction (City of Menifee 2013). In addition, the subsurface conditions encountered at the boring locations for the Geotechnical Investigation are not considered to be conducive to liquefaction. These conditions consist of mostly dense to very dense sandy soils with no evidence of a long-term groundwater table within the depths explored by the borings. As such, the Geotechnical Investigation concluded that the potential for lateral spreading on the site is considered very low (SoCalGeo, 2021). In addition, the proposed Project would be required to adhere to CBC requirements to limit risk associated with lateral spreading. As such, compliance with CBC requirements, as ensured through the City's permitting process, would ensure that lateral spreading and liquefaction impacts would be less than significant.

Ground subsidence is the gradual settling or sinking of the ground surface with little or no horizontal movement, and occur in areas with subterranean oil, gas, or groundwater. Effects of subsidence include fissures, sinkholes, depressions, and disruption of surface drainage. According to the Geotechnical Investigation, an estimated shrinkage potential on the order of 7 to 17 percent is expected during removal and recompaction of native alluvial soils. A subsidence of 0.1 feet may be anticipated within the Project site (SoCalGeo 2021). However, risk of subsidence would be lowered through adherence to CBC grading and earthwork operation recommendations. Also, groundwater extraction is managed by groundwater management plans, which limits the allowable withdrawal of water and potential of subsidence. In addition, compliance with the CBC would be required by the Menifee Building and Safety Division, as implemented as a condition of approval. Compliance with the requirements of the CBC as part of the building plan check and development review process, would ensure that impacts related to subsidence would be less than significant.

In addition, the Geotechnical Investigation describes that site soils consist of artificial fill soils and native alluvial soils. The near-surface native alluvial soils within the upper six feet generally consist of silty clays and silty fine sands which possess variable strength and unfavorable

consolidation/collapse characteristics. The Geotechnical Investigation describes that the recommended remedial grading would remove all artificial fill soils and the upper portion of the near-surface native alluvium, including collapsible/compressible soils, and replace these soils as compacted structural fill (SoCalGeo 2021). Therefore, any potential impacts related to collapsible soils would be minimized by standard geotechnical engineering practices. As such, excavation and recompaction of the artificial fill soils in compliance with the CBC as required through the City's permitting process would ensure that collapse related impacts would be less than significant.

d) Be located on expansive soil, as defined in in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less than Significant Impact. Expansive soils contain certain types of clay minerals that shrink or well as the moisture content changes; the shrinking or swelling can shift, crack, or break structures built on such soils. Arid or semiarid areas with seasonal changes of soil moisture experiences, such as southern California, have a higher potential of expansive soils than areas with higher rainfall and more constant soil moisture.

The Geotechnical Investigation, included as Appendix A, found the near-surface soils of the Project site artificial fill consisting of very stiff to hard silty clay, medium dense to dense silty fine sand and silty fine to coarse sand, which generally exhibit cementation. In addition, native alluvium was encountered beneath the fill soils or at the ground surface, which consist of medium dense to very dense silty fine sand, silty fine to coarse sand, fine to coarse sand and stiff to hard silty clay. Based on preliminary field investigation and laboratory testing, onsite soils possess a low to medium expansion potential (SoCalGeo 2021). However, as described previously, compliance with the CBC would require specific engineering design recommendations be incorporated into grading plans and building specifications as a condition of construction permit approval to ensure that the proposed Project structures would withstand effects related to ground movement, including expansive soils. Therefore, impacts would be less than significant, and this topic will not be addressed in the forthcoming EIR.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. The proposed Project would develop new sewer infrastructure that would connect into existing sewer infrastructure and would not use septic tanks or alternative methods for disposal of wastewater into subsurface soils. Therefore, impacts related to septic tanks or alternative wastewater disposal methods would not occur and this topic will not be evaluated in the forthcoming EIR.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant Impact with Mitigation. Development of the proposed Project includes site preparation, grading, and other ground disturbance activities that have the potential to disturb alluvial deposits and paleontological resources on the site, if any. Thus, a site-specific Paleontological Resources Assessment, included as Appendix B, was prepared for the proposed Project by BFS A Environmental Services in January 2023 (BFS A 2023). The Paleontological Resource Assessment included a locality records search, literature review, and a field pedestrian survey. The records search indicates that no known fossil localities are present within the Project

boundaries or within one mile of the Project site. However, the records search found that the closest-known fossil localities are approximately five to seven miles southeast of the Project site and are associated with improvements to the Diamond Valley Lake Reservoir Project and consist specimens of Pleistocene mammal bones (BFSA 2023). Construction associated with the Diamond Valley Lake Reservoir yielded vast numbers of terrestrial Ice Age vertebrate fossils that were derived from the same types of alluvial fan deposits as mapped within the Project site. Geologically, the Project site is mapped as very thin, roughly 30 feet in depth, middle to early Pleistocene very old alluvial deposits that overlies granitic bedrock. Pleistocene deposits are considered to have high paleontological resource sensitivity. Due to the existence of Pleistocene very old alluvial fan deposits at and near the Project site and the presence of previously recorded fossil specimens less than five to seven miles from the site, it is possible that there are fossils underlying the Project site as research has confirmed high paleontological sensitivity at the Project site.

Thus, the Mitigation Measure GEO-1 will be included in the Project's mitigation monitoring and reporting program (MMRP), which requires full-time monitoring of undisturbed very old alluvial fan deposits during grading activities, starting at a depth of five feet below the surface, to mitigate impacts in the event that paleontological resources or unique geologic features are unearthed. Mitigation Measure GEO-1 also requires a Paleontological Resource Impact Mitigation Program (PRIMP) be implemented before the issuance of a grading permit. Therefore, with the implementation of mitigation measure GEO-1 the proposed Project would not directly or indirectly destroy a unique paleontological resource or site or unique geologic feature and impacts would be less than significant with mitigation. Mitigation Measure GEO-1 will be incorporated into the Project's MMRP and this topic will not be evaluated further in the EIR.

Mitigation Measures

Mitigation Measure GEO-1: Paleontological Resource Impact Mitigation Program (PRIMP). Prior to issuance of grading permits, the applicant shall retain a qualified paleontologist approved by the City of Menifee to create and implement a PRIMP, subject to the guidelines outlined below, and the guidelines of the Society of Vertebrate Paleontology (2010) for any mass grading and excavation-related activities, including utility trenching, during construction within the property. This PRIMP, when implemented, would reduce potential impacts to paleontological resources to a level below significant:

1. The project paleontologist shall participate in a pre-construction project meeting with development staff and construction operations to ensure an understanding of any mitigation measures required during construction, as applicable.
2. Monitoring of mass grading and excavation activities in areas identified as likely to contain paleontological resources shall be performed by a qualified paleontologist or paleontological monitor supervised by a qualified paleontologist. Starting at five feet below the surface, monitoring shall be conducted full-time in areas of grading or excavation in undisturbed Pleistocene very old alluvial fan deposits. Earthmoving activities in areas of the project area where previously undisturbed strata will be buried but not otherwise disturbed will not be monitored. The project paleontologist or his/her assign will have the authority to reduce monitoring once he/she determines the probability of encountering fossils has dropped below an acceptable level.
3. Paleontological monitors shall be equipped to salvage fossils as they are unearthed to avoid construction delays. The monitor shall be empowered to temporarily halt or divert equipment to allow removal of abundant or large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the

- subsurface, or, if present, are determined upon exposure and examination by qualified paleontological personnel to have low potential to contain fossil resources. The monitor shall notify the project paleontologist, who will then notify the concerned parties of the discovery.
4. If fossil remains are encountered by earthmoving activities when the project paleontologist is not onsite, these activities will be diverted around the fossil site and the project paleontologist called to the site immediately to recover the remains.
 5. Paleontological salvage during trenching and boring activities is typically from the generated spoils and does not delay the trenching or drilling activities. Fossils are collected and placed in cardboard flats or plastic buckets and identified by field number, collector, and date collected. Notes are taken on the map location and stratigraphy of the site, which is photographed before it is vacated and the fossils are removed to a safe place. On mass grading projects, discovered fossil sites are protected by flagging to prevent them from being overrun by earthmovers (scrapers) before salvage begins. Fossils are collected in a similar manner, with notes and photographs being taken before removing the fossils. If the site involves remains from a large terrestrial vertebrate, such as large bone(s) or a mammoth tusk, that is/are too large to be easily removed by a single monitor, a fossil recovery crew shall excavate around the find, encase the find within a plaster and burlap jacket, and remove it after the plaster is set. For large fossils, use of the contractor's construction equipment may be solicited to help remove the jacket to a safe location.
 6. Particularly small invertebrate fossils typically represent multiple specimens of a limited number of organisms, and a scientifically suitable sample can be obtained from several five-gallon buckets of fossiliferous sediment. If it is possible to dry screen the sediment in the field, a concentrated sample may consist of one or two buckets of material. For vertebrate fossils, the test is usually the observed presence of small pieces of bones within the sediments. If present, as multiple five-gallon buckets of sediment can be collected and returned to a separate facility to wet-screen the sediment.
 7. In accordance with the "Microfossil Salvage" section of the SVP guidelines (2010:7), bulk sampling and screening of fine-grained sedimentary deposits (including carbonate-rich paleosols) must be performed if the deposits are identified to possess indications of producing fossil "microvertebrates" to test the feasibility of the deposit to yield fossil bones and teeth.
 8. In the laboratory, individual fossils are cleaned of extraneous matrix, any breaks are repaired, and the specimen, if needed, is stabilized by soaking in an archivally approved acrylic hardener (e.g., a solution of acetone and Paraloid B-72).
 9. Recovered specimens are prepared to a point of identification and permanent preservation (not display), including screen-washing sediments to recover small invertebrates and vertebrates. Preparation of individual vertebrate fossils is often more time-consuming than for accumulations of invertebrate fossils.
 10. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage (e.g., the WSC) shall be conducted. The paleontological program should include a written repository agreement prior to the initiation of mitigation activities. Prior to curation, the lead agency (the City of Menifee) will be consulted on the repository/museum to receive the fossil material.
 11. A final report of findings and significance will be prepared, including lists of all fossils recovered and necessary maps and graphics to accurately record their original location(s). The report shall be submitted to the Community Development Department

- for review and approval prior to building final inspection as described elsewhere in these conditions. When the final report of findings is accepted by the Community Development Director it will signify satisfactory completion of the project program to mitigate impacts to any potential nonrenewable paleontological resources (i.e., fossils) that might have been lost or otherwise adversely affected without such a program in place.
12. All reports shall be signed by the project paleontologist and all other professionals responsible for the report's content (e.g. Professional Geologist, Professional Engineer, etc.), as appropriate. Two wet-signed original copies of the report shall be submitted directly to the Community Development Department along with a copy of this condition, deposit-based fee and the grading plan for appropriate case processing and tracking.

5.8 GREENHOUSE GAS EMISSIONS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Potentially Significant Impact. Global climate change is not confined to a particular project area. A typical project does not generate enough greenhouse gas (GHG) emissions on its own to influence global climate change significantly; hence, the issue of global climate change is, by definition, a cumulative environmental impact. GHGs are produced by both direct and indirect emissions sources. Direct emissions include consumption of natural gas, heating and cooling of the building, landscaping activities, and other equipment used directly by land users. Indirect emissions include the consumption of fossil fuels for vehicle trips, electricity generation, water usage, and solid waste disposal.

Implementation of the proposed Project would generate GHG emissions during both construction and operation of the development. During construction, sources of GHG emissions include construction equipment and workers' commutes to and from the site. During operations, the proposed Project would generate GHG emissions from vehicular trips; water, natural gas, and electricity consumption; and solid waste generation. The proposed Project has the potential to generate a substantial increase in GHG emissions. Therefore, this issue will be further analyzed in the forthcoming EIR.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Potentially Significant Impact. The State of California, through its Governors and Legislature, has established a comprehensive framework for the substantial reduction of GHG emissions over the next 40-plus years. This will occur primarily through the implementation of Assembly Bill (AB) 32 (2006), Senate Bill (SB) 375 (2008), Executive Order S-3-05 (2005), Executive Order B-30-15 (2015), and SB 32 (2016), which address GHG emissions on a statewide, cumulative basis. The proposed Project would result in an increase in GHG emissions. Therefore, the forthcoming EIR will further evaluate the level of GHG emissions produced by the Project and evaluate its consistency with the applicable plans and policies.

5.9 HAZARDS AND HAZARDOUS MATERIALS

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less than Significant Impact. A hazardous material is typically defined as any material that due to its quantity, concentration, or physical or chemical characteristics, poses a significant potential hazard to human health and safety or the environment if released. Hazardous materials may include, but are not limited to hazardous substances, hazardous wastes, and any material that would be harmful if released.

There are multiple state and local laws that regulate the storage, use, and disposal of hazardous materials. The Riverside County Department of Environmental Health Hazardous Materials Branch is the local administrative agency that coordinates regulatory programs that regulate use, storage, and handling of hazardous materials, including Hazardous Materials Business Plans. Should tenants of the proposed building utilize or transport hazardous materials, the tenant/business would be required to comply with Riverside County Department of Environmental Health regulations, and if

required, the California Accidental Release Program (CalARP). CalARP would require the tenant to provide a Risk Management Plan and allow site access for routine inspections of CalARP facilities.

Construction

Construction activities for the proposed Project would involve routine transport, use, and disposal of hazardous materials such as paints, solvents, oils, grease, and caulking. In addition, routine hazardous materials would be used for fueling and serving construction equipment onsite. These types of hazardous materials routinely used during construction are not acutely hazardous, and all storage, handling, use, and disposal of these materials are regulated by existing state and federal laws that the proposed Project is required to strictly adhere to. As a result, the routine transport, use or disposal of hazardous materials during construction activities for the proposed Project would be less than significant.

Operation

The proposed Project would operate one industrial warehouse with additional truck trailer parking, which generally use limited hazardous materials, such as: lubricants, solvents, cleaning agents, wastes, paints and related wastes, petroleum, wastewater, batteries, (lead acid, nickel cadmium, nickel, iron, carbonate), scrap metal, and aerosol cans. Normal routine use of these products would not result in a significant hazard to residents or workers in the vicinity of the proposed Project.

Also, should any future business that occupies the proposed building handle acutely hazardous materials (as defined in Section 25500 of California Health and Safety Code, Division 20, Chapter 6.95) the business would require a permit from the Riverside County Department of Environmental Health Hazardous Materials Branch. Such businesses are also required to comply with California's Hazardous Materials Release Response Plans and Inventory Law, which requires immediate reporting to the County Hazardous Materials Branch and the State Office of Emergency Services regarding any release or threatened release of a hazardous material, regardless of the amount handled by the business. In addition, any business handling at any one time, greater than 500 pounds of solid, 55 gallons of liquid, or 200 cubic feet of gaseous hazardous material, is required, under Assembly Bill 2185 (AB 2185), to file a Hazardous Materials Business Emergency Plan with the County. A Hazardous Materials Business Emergency Plan is a written set of procedures and information created to help minimize the effects and extent of a release or threatened release of a hazardous material. The intent of the Hazardous Materials Business Emergency Plan is to satisfy federal and state right-to-know laws and to provide detailed information for use by emergency responders.

Therefore, if future businesses that use or store hazardous materials occupy the proposed building, the business owners and operators would be required to comply with all applicable federal, state, and local regulations, as permitted by the County Department of Environmental Health Hazardous Materials Branch to ensure proper use, storage, and disposal of hazardous substances. Overall, operation of the proposed Project would result in a less than significant impact related to the routine transport, use, or disposal of hazardous materials.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less than Significant Impact.

Construction

Accidental Releases. While the routine use, storage, transport, and disposal of hazardous materials in accordance with applicable regulations during construction activities would not pose health risks or result in significant impacts, improper use, storage, transportation and disposal of hazardous materials and wastes could result in accidental spills or releases, posing health risks to workers, the public, and the environment. To avoid an impact related to an accidental release, the use of BMPs during construction are implemented as part of a SWPPP as required by the National Pollution Discharge Elimination System General Construction Permit. Implementation of an SWPPP would minimize potential adverse effects to workers, the public, and the environment. Construction contract specifications would include strict on-site handling rules and BMPs that include, but are not limited to:

- Establishing a dedicated area for fuel storage, refueling, and construction dewatering activities that includes secondary containment protection measures and spill control supplies;
- Following manufacturers' recommendations on the use, storage, and disposal of chemical products used in construction;
- Avoiding overtopping construction equipment fuel tanks;
- Properly containing and removing grease and oils during routine maintenance of equipment; and
- Properly disposing of discarded containers of fuels and other chemicals.

Historical Use

In May 2021, Hillmann Consulting completed a Phase I Environmental Assessment (Phase I ESA) of all the parcels that comprise the Project site (Appendix C). From a review of the historical aerial photographs, the Project site had been developed for agricultural uses as what appears to be dry farming from 1938 to 2002. In 1985, small residential structures were constructed on a portion of the land but have since been demolished. Dry farming is not considered to be a concern (Hillmann Consulting 2021). Additionally, the proposed Project is planned for industrial development, and the area of the subject property would largely either be paved over or covered by improvements that make direct contact with the soil unlikely. Therefore, the impacts involving the release of hazardous materials related to historic uses is less than significant.

Recognized Environmental Conditions

The 2021 Phase I ESA identified one Recognized Environmental Condition (REC) and one *de minimis* condition related to the Project Site:

Soil Stockpiles. Several stockpiles of soil were observed on the vacant southwest portion of the site. A tenant indicated that the soil is from off-site. As recommended by the Phase I ESA, a Limited Phase II Subsurface Investigation Report was prepared by Hillmann Consulting in September 2021 (Appendix D). Soil sampling included screenings for organo-chlorine pesticides (OCPs), Title 22 Metals, Total Petroleum Hydrocarbons (TPHcc), Volatile Organic Compounds (VOCs), and Polycyclic Aromatic Hydrocarbons (PAHs). Results indicated there were no detectable levels of OCPs, TPHcc, or PAHs. Detected levels of VOCs and Title 22 Metals did not exceed conservative screening levels for residential applications. Therefore, impacts related to the soil stockpiles in the event of their removal would be less than significant.

De Minimis Condition. A greasy/oily stain was observed at the residential building on 26399 Murietta Road, likely associated with passenger vehicle parking. However, the Phase I ESA considered the stain a *de minimis* condition. As the Project would include development of the site with an industrial use, impacts related to the greasy/oily stain would be less than significant.

c) Emit hazardous emissions or handle hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less than Significant Impact. There are no schools within a one-quarter mile radius of the Project site. The closest school to the Project site is the I Can Preschool and Child Care located at 26704 Murrieta Road, Sun City, CA 92585, approximately 0.3 miles southeast of the Project site.

Construction

Heavy construction equipment (e.g., dozers, excavators, tractors) would be used for construction of the proposed warehouse. The equipment would be fueled and maintained by petroleum-based substances such as diesel fuel, gasoline, oil, and hydraulic fluid, which are considered hazardous materials and may also generate hazardous emissions. As discussed in Section 5.9, *Hazards and Hazardous Materials*, response a) above, use of the hazardous materials would be regulated by the Riverside County Department of Environmental Health Hazardous Materials Branch. Additionally, as discussed in Section 6, *Air Quality*, construction-related emissions would be regulated by SCAQMD Rules 401 and 403. Therefore, potential construction-related impacts at the schools caused by hazardous emissions and materials would be less than significant.

Operation

As discussed in response 5.9(a) above, hazardous materials typically used at warehousing and light manufacturing facilities may include lubricants, solvents, cleaning agents, wastes, paints and related wastes, petroleum, wastewater, batteries, (lead acid, nickel cadmium, nickel, iron, carbonate), scrap metal, and aerosol cans. These materials would be handled in accordance with applicable laws and regulations. If business operations exceed certain thresholds, the businesses would also be required to comply with AB 2185 permitting requirements and create a Hazardous Materials Business Emergency Plan that addresses the safe handling, storage, and disposal of hazardous materials and actions to be taken in the event of hazardous materials spills, releases, and emergencies. The businesses would be required to install and maintain equipment and supplies for containing and cleaning up spills of hazardous materials. Workers would be trained to contain and cleanup spills and notify the Riverside County Department of Environmental Health Hazardous Materials Branch and/or other appropriate emergency response agencies, as needed. Additionally, the proposed building would be designed to allow all operations to be conducted within the building, with the exception of traffic movement, parking, trailer connection and disconnection, and the loading and unloading of trailers at the loading bays. Therefore, potential hazards would be contained within the proposed building.

The outdoor cargo handling equipment used during loading, and unloading of trailers (e.g., yard trucks, hostlers, yard goats, pallet jacks, forklifts) would be non-diesel powered, per contemporary industry standards. Potential hazardous emissions generated would mainly be related to vehicles accessing the site. Pursuant to State law, on-road diesel-fueled trucks are required to comply with air quality and greenhouse gas emission standards, including but not limited to the type of fuel used, engine model year stipulations, aerodynamic features, and idling time restrictions. Compliance with State law is mandatory and inspections of on-road diesel trucks subject to applicable State laws. Therefore, the use of hazardous materials and the generation of hazardous emissions through operation of the proposed Project would not pose a significant hazard at nearby schools, and operational impacts would be less than significant.

- d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

No Impacts. The Phase I ESA (Appendix C) prepared for the Project site conducted a database search to determine if the Project site or any nearby properties are identified as having hazardous materials. The record search determined that the Project site is not identified on a list of hazardous materials sites. However, three nearby properties were identified on the State Hazardous Waste Site list. The Phase I ESA determined none of the nearby listings constituted a REC for the Project site. As a result, impacts related to hazards from being located on or adjacent to a hazardous materials site would not occur from implementation of the proposed Project. Therefore, the proposed Project would result in no impacts related to hazardous materials sites compiled pursuant to Government Code Section 65962.5.

- e) For a project within an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?**

Less Than Significant Impact. The proposed Project is located approximately 1.43 miles southeast of the Perris Valley Airport, a privately owned and operated airport within the City of Perris. The proposed Project is within influence area Zone E, governed by the Riverside County Airport Land Use Commission (ALUC). The proposed Project is located within Zone E of the March Air Reserve Base, located over 10 miles northwest of the Project site. Additionally, the proposed Project is not located in any existing noise contours for either the Perris Valley Airport or March Air Reserve Base.

As adopted by the Riverside County ALUC, the Riverside County Airport Land Use Compatibility Plan (ALUCP) establishes policies applicable to land use compatibility planning in the vicinity of airports throughout Riverside County. However, review by the Riverside County ALUC is not required for the proposed Project as the City of Menifee is consistent with the Perris Valley Airport ALUCP and March Air Reserve Base ALUCP. Additionally, the proposed Project does not apply to any of the conditions requiring ALUC review under Policies 1.5.1 or 1.5.2 of the Riverside County ALUCP. Additionally, the Project does not propose any legislative actions that would require ALUC review. The proposed warehouse facility is consistent with the existing Economic Development Corridor (EDC) land use designation for the Project site and is also consistent with the EDC – NG zoning development standards as summarized in Table AES-1 above. Since the proposed Project is consistent with the City of Menifee land use designation for the site, the proposed Project would also be consistent with the ALUCP for both the Perris Valley Airport and March Air Reserve Base. Thus, the proposed Project would be consistent with the GP land use, airport land use planning, and safety review within the airport policy areas. Therefore, the proposed Project would not result in a safety hazard for people working on the site and impacts from the proposed Project would be less than significant..

- f) Impair implementation of an adopted emergency response plan or emergency evacuation plan?**

Less Than Significant Impact. The emergency response plan in effect in Riverside County is the Riverside County Operational Area Emergency Operations Plan. Additionally, the City of Menifee has adopted the Emergency Management program, which outlines requirements for emergency access and standards for emergency responses. Specific plans under this program include the

Emergency Operations Plan (EOP) and the Local Hazard Mitigation Plan (LHMP). Based on the General Plan Exhibit S-9, *Evacuation Routes*, Murrieta Road is designated as an evacuation route.

Construction

The proposed construction activities, including equipment and supply staging and storage, would occur within the Project site, and would not restrict access of emergency vehicles to the Project site or adjacent areas. The installation of new driveways, connections to existing infrastructure systems, widening of Murrieta Road, and related improvements would be implemented during construction of the proposed Project and would require the temporary closure of Murrieta Road. However, construction activities would not require the entire closure of Murrieta Road and any temporary lane closures needed for utility connections or driveway construction would be required through the City's permitting process to implement appropriate measures to facilitate vehicle circulation, as included within construction permits. Thus, implementation of the Project through the City's permitting process would ensure existing regulations are adhered to and potential construction-related emergency access or evacuation impacts would be less than significant.

Operation

Direct access to the Project site would be provided via five new driveways, two driveways from Geary Street and three driveways from Murrieta Road. Both driveways on Geary Street would be accessible by both passenger vehicles and trucks. The middle driveway on Murrieta Road would be limited to passenger vehicles only and would have a width of 30-feet. The driveways along Geary Street and the northern and southern driveways on Murrieta Road would have a width of 40-feet. The Project would include a 26-foot-wide fire access road throughout the site.

Project driveways and internal access would be consistent with the City's permitting procedures to meet the City's design standards, stated in the Menifee Development Code Chapter 9,160.050, to ensure adequate emergency access and evacuation. The proposed Project would also be required to provide fire suppression facilities (e.g., hydrants and sprinklers). The Office of the Fire Marshal and/or Engineering Department would review the development plans as part of the permitting procedures to ensure adequate emergency access pursuant to the requirements in Section 503 of the California Fire Code (Title 24, California Code of Regulations, Part 9). As such, the proposed Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, and impacts would be less than significant.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Potentially Significant Impact. According to the CalFire Fire Hazard Severity Zone Map for the City of Menifee and the *High Fire Hazards Areas* Map in the City's General Plan EIR, the Project site is in a State Responsibility Area (SRA) High Fire Hazard Severity Zone (HFHSV). The site terrain is generally flat with vegetation susceptible to wildland fires. Therefore, impacts related to exposure of people or structures to wildland fire hazards will be analyzed in the forthcoming EIR.

5.10 HYDROLOGY AND WATER QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) result in a substantial erosion or siltation on- or off-site;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iv) impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Potentially Significant Impact. The proposed Project would convert the vacant and previously developed land into a new warehousing facility. Development of the proposed Project would include construction activities such as grading, paving, and building construction. These activities could result in the generation of water quality pollutants that could violate water quality or waste discharge standards. Required permits pursuant to National Pollutant Discharge Elimination System (NPDES) regulations contain water pollution control requirements applicable to the proposed Project. The General Construction Permit issued by the State Water Resources Control Board requires the Project applicant to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP would specify Best Management Practices (BMPs) to be used during construction of the proposed Project to minimize or avoid water pollution.

The proposed Project would also result in development of new impervious surfaces with buildout of the proposed building, parking lots, and sidewalks that could increase the levels of polluted runoff as water infiltration rates would be reduced. A Water Quality Management Plan (WQMP) is also

required by NPDES regulations. The WQMP would specify BMPs to be used in Project design and Project operation. However, due to the amount of construction disturbance and change in onsite uses potential impacts to water quality will be evaluated in the forthcoming EIR, and mitigation measures will be recommended as needed.

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

Less than Significant Impact. Water is provided to the Project site by the Eastern Municipal Water District (EMWD). EMWD has prepared the 2020 Urban Water Management Plan (UWMP), which includes a characterization of water supply. As described in Section 4.1.1 of the UWMP, EMWD intends to utilize recycled water for the needs of the industrial sector, as much as possible. Additionally, the proposed Project is located within the San Jacinto Groundwater Basin and the West San Jacinto Groundwater Sustainability Agency Plan Area. The plan manages groundwater extraction, supply, and quality. Because the groundwater basin is managed through this plan, which limits the allowable withdrawal of water from the basin by water purveyors, and the proposed Project would not pump water from the Project area (as water supplies would be provided by EMWD), the proposed Project would not result in a substantial depletion of groundwater supplies. Further discussion of impacts to water supply is included in Section 5.19, Utilities and Service Systems.

Upon development, a large portion of the site would become impervious, which could change the infiltration rates. However, as described in Section 3, Project Description, buildout of the Project would include on- and off-site storm drain systems. Under the MS4 permit of the Santa Ana River Watershed in Riverside County, these systems are required to accommodate runoff from 85th percentile storm events. Therefore, with the inclusion of the proposed infiltration systems, impacts related to groundwater supply and recharge would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i. result in a substantial erosion or siltation on- or off-site?

Potentially Significant Impact. Implementation of the proposed Project has the potential to alter the drainage pattern onsite. As previously described, the proposed Project would require development of new drainage infrastructure. These changes could generate erosion or siltation during construction activities. Therefore, hydrology and drainage studies will be prepared for the proposed Project, and potential impacts related to erosion and siltation will be analyzed in the forthcoming EIR. The EIR will describe the requirements of the SWPPP that would specify BMPs to be used during construction of the proposed Project to minimize erosion or siltation. Mitigation measures will also be recommended, as needed to reduce potential impacts to erosion or siltation.

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?

Potentially Significant Impact. As described in the previous responses, the proposed Project has the potential to alter the existing drainage pattern of the site. The proposed Project would also

result in development of new impervious surfaces with buildout of the proposed building, parking lots, and sidewalks that could increase the levels of runoff, as water infiltration rates would be reduced. Thus, hydrology and drainage studies will be prepared to analyze pre- and post-development changes to the rate and amount of surface runoff onsite. The forthcoming EIR will include analysis of potential impacts related to drainage, and mitigation measures will be recommended as needed.

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Potentially Significant Impact. As previously mentioned, the proposed Project would involve grading and change to the onsite drainage and has the potential to result in additional runoff, as water infiltration rates would be reduced. Thus, proposed Project impacts on existing and planned storm drainage systems will be analyzed in in the forthcoming EIR, and mitigation measures will be recommended as needed.

iv. impede or redirect flood flows?

Less than Significant Impact. According to the Flood Insurance Rate Map (FIRM), published by the Federal Emergency Management Agency (FEMA) (06065C2055H), the northeastern portion of the Project site is located in Zone X, which is classified as a moderate to low-risk flood area. All development within special flood hazards zones must comply with the applicable construction standards listed in Section 4.2.050 of the City Municipal code. Within these provisions, new buildings are required to include flood openings as to not impede flood flows. Therefore, with compliance with the City Municipal Code, the proposed Project would not impede or redirect flood flows, and impacts would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Less than Significant Impact. As previously stated, the proposed Project is within a moderate to low-risk flood zone. According to the California Department of Water Resources Inundation Maps, the northeast portion of the Project site is subject to inundation from failure of the Lake Perris dam and low-level outlet located approximately 7.6 miles northeast of the Project. The downstream hazard from the failures is classified as extremely high. In addition, the northeast portion of the Project site is subject to inundation from Lake Hemet located approximately 29 miles southeast of the site. Failure of the main dam would result in an extremely high downstream hazard that could flood the Project site. However, proper hazardous materials storage requirements, which include flood-specific provisions, as set by Cal/OSHA would be implemented in order to limit the risk of release of pollutants due to inundation of the proposed Project. Therefore, impacts related to the release of pollutants due to inundation would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

A tsunami is a great sea wave produced by undersea disturbances such as tectonic displacement or large earthquakes. The Project site is located 32 miles northeast of the Pacific Ocean and separated by the Santa Ana Mountains. Therefore, the Project site would not have the potential to expose people or structures to a tsunami, and impacts related to risk release of pollutants due to a tsunami will not be further evaluated in the forthcoming EIR.

A seiche is an oscillation of a body of water in an enclosed or semi-enclosed basin such as a reservoir, harbor, lake, or storage tank. The Project site is located approximately 7.6 miles southwest of Lake Perris and 29 miles northwest of Lake Hemet. The spillway path for both Lake Perris and Lake Hemet would flow into the San Jacinto River which flows 1.10 miles northwest of the Project site. The water would likely remain in the San Jacinto River as it passes the site vicinity and would not impact the proposed Project. Thus, the Project site would not risk release of pollutants as a result of a seiche from the lakes.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Potentially Significant Impact. As described in the previous responses, the proposed Project would convert the vacant previously developed site into a warehousing facility that would generate pollutants, impervious surfaces, and utilize water supplies. Although existing regulations would require implementation of a SWPPP during construction and a WQMP during operation, whether the proposed Project would conflict with implementation of a water quality control plan or sustainable groundwater management plan will be evaluated in the forthcoming EIR, and mitigation measures will be recommended as needed.

5.11 LAND USE AND PLANNING

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Physically divide an established community?

Less Than Significant Impact. The physical division of an established community could occur if a major road (expressway or freeway, for example) were built through an existing community or neighborhood, or if a major development was built which was inconsistent with the land uses in the community such that it divided the community. The environmental effects caused by such a facility or land use could include lack of, or disruption of, access to services, schools, or shopping areas.

The proposed Project would construct a warehousing facility on a vacant previously developed site. The proposed Project use would be consistent with the EDC – NG zoning designation and would be developed adjacent to the existing roadway system. The proposed Project would also include the offsite roadway improvement of extending the existing dirt road of Geary Street. Geary Street would be paved and widened along the project frontage and north to Ethanac Road. Additionally, north of the Project site are residences, as described in Section 3, Project Description. However, the existing dirt road of Geary Street is already utilized by the residents north of the Project site. Thus, while the proposed Project would pave and extend the exiting dirt road, it would not result in the physical division of an established community and the disruption of or access to services, schools, or shopping areas. Therefore, impacts related to physically dividing an established community would be less than significant and will not be further evaluated in the forthcoming EIR.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Potentially Significant Impact. The Project may have the potential to interfere with an applicable plan, policy, or regulation related to avoidance or mitigation of an environmental effect. Therefore, the Project's consistency with plans, including but not limited to the SCAQMD Air Quality Management Plan, SCAG Regional Transportation Plan/Sustainable Communities Strategy Policies, and Santa Ana River Basin Plan will be analyzed in the forthcoming EIR.

5.12 MINERAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact. There are no known mineral resources either on the Project site or in the immediate vicinity of the Project site that would be impacted by the Project. According to the General Plan EIR, in order to protect the availability of mineral resources of value, the California Department of Conservation identifies sites to which continuing access is important to satisfying mineral production needs of the region and the State. The relative importance of potential mineral resource sites is indicated by inclusion in one of four Mineral Resource Zones (MRZ):

- MRZ-1: No mineral resources;
- MRZ-2: Significant resource area (quality and quantity known);
- MRZ-3: Significant resource area (quality and quantity unknown);
- MRZ-4: No information (applies primarily to high-value ores).

The California Department of Conservation is primarily interested in preservation of access to significant resources areas included in MRZ-2. Based on the General Plan EIR Figure 5.11-1, *Mineral Resource Zones*, the Project site is designated as an Urban Area. Due to existing development, Urban Areas are not classified as mineral resource zones. Therefore, impacts related to known mineral resources would not occur from implementation of the proposed Project, and this topic will not be evaluated in the forthcoming EIR.

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

No Impact. As stated above, the Project site is not within a mineral resource zone as defined by the City of Menifee General Plan EIR. Therefore, impacts related to known mineral resources that are delineated on a land use plan would not occur from implementation of the proposed Project, and this topic will not be evaluated in the forthcoming EIR.

5.13 NOISE

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Generation of excessive groundborne vibration or groundborne noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Potentially Significant Impact. The proposed Project would develop the site for warehouse uses. Project-related short-term construction activities, as well as long-term operational activities may expose persons in the vicinity to noise levels in excess of standards established by City’s General Plan.

A Project-specific noise impacts analysis will be prepared to determine the potential short-term construction and long-term operational noise impacts associated with the generation of noise levels in excess of standards established local standards. This topic will be evaluated the forthcoming EIR, and mitigation will be recommended, as needed.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Potentially Significant Impact. Groundborne vibration or noise would be associated with construction activities at the Project site, including grading, and building construction, and with associated hardscape and landscape improvements. The operation of the proposed Project would include heavy trucks transiting on site to and from the loading dock areas. The noise impact analysis will include a vibration assessment to analyze the impact of vibration from trucking operations on nearby streets and roadways. This topic will be evaluated in the forthcoming EIR, and mitigation measures will be recommended, as needed.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Potentially Significant Impact. The Project site is located approximately 1.43 miles southeast of the Perris Valley Airport and is within influence area E. Additionally, the proposed Project is located within Zone E of the March Air Reserve Base. As shown in the *Ultimate Noise Impacts Map* for Perris Valley Airport, the Project site would be exposed to noise levels of 55 db CNEL. Due to the close proximity to the airport, people working at the Project site may be exposed to excessive noise levels related to the Perris Valley Airport. Standard building construction consistent with the State of California Green Building Standards Code typically provides up to 25 dBA CNEL of exterior to interior noise attenuation. Implementation of the proposed Project would potentially expose people working at the Project site to excessive noise levels which would be further analyzed in the forthcoming EIR.

5.14 POPULATION AND HOUSING

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) Induce substantial unplanned population growth in an area, either directly or indirectly?

Less than Significant Impact. The proposed Project would develop a new industrial warehouse on a vacant, previously developed site that would be consistent with the General Plan approved in 2013. The site is located in a developed area of the City adjacent to existing roads and in close proximity to infrastructure and utilities.

The proposed Project would provide an increase of employment on the Project site that could lead to a potential population increase in the surrounding area. However, because Southern California Association of Government’s (SCAG) regional growth forecasts are based upon, among other things, land uses designated in land use plans, a project that is consistent with the land use designated in a General or Specific Plan would also be consistent with the SCAG’s growth projections. The proposed warehouse facility is consistent with the existing Economic Development Corridor (EDC) land use designation for the Project site. According to the SCAG, the generation rate for employees required for operation of industrial warehouse uses is 1 employee for every 819 SF of building space. As the proposed Project would operate 533,252 SF of building area, operation of the Project would require approximately 652 employees.

The employees that would fill these roles are anticipated to come from the region, as the unemployment rate of the City of Menifee in January 2023 was 4.9 percent, and the City of Perris was 5.8 percent (U.S. Bureau of Labor Statistics 2023). Due to these levels of unemployment, it is anticipated that new employees at the Project site would already reside within commuting distance and would not generate needs for any housing. In addition, should the proposed Project require employees to relocate to the area for work, there is sufficient vacant housing available within the region. Within the City of Menifee, 36,308 of 38,734 total housing units are occupied, resulting in a vacancy rate of 6.3 percent (State Department of Finance 2022). Thus, impacts related to unplanned population growth from the proposed Project would be less than significant.

In addition, Development of the Project would require expansion of infrastructure to serve the proposed uses at the site, including installation of new onsite water, sewer, and stormwater drainage lines as well as improved roadways as outlined in Section 3.0, *Project Description*. The improvements would serve only the operations of the proposed development and have not been sized to accommodate developments offsite. The Project would include development of driveways as well as roadway improvements within the Project site frontage to provide adequate access and circulation for passenger automobiles and truck traffic. Therefore, the proposed Project would not

induce unplanned population growth either directly or indirectly that could cause substantial adverse physical changes in the environment, and impacts would be less than significant.. This topic will not be further evaluated in the forthcoming EIR.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The Project site is currently vacant and previously developed and does not contain any housing. Thus, the proposed Project would not displace a substantial number of people or housing units that would require construction of replacement housing, and this topic will not be evaluated in the forthcoming EIR.

5.15 PUBLIC SERVICES

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Fire protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Police protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for:

i. Fire Protection and Emergency Services

Potentially Significant Impact. The City of Menifee contracts with the Riverside County Fire Department/Cal Fire (RCFD) for all fire and emergency services. The closest fire station to the Project site is Fire Station #7, located approximately 3.1 roadway miles southeast of the Project site, at 28349 Bradley Road, Menifee, CA 92586. RCFD staffing needs are determined by the number of calls and requests for fire, paramedic, and emergency response services. Construction and operation of the proposed warehouse would increase the number of structures and employees in the Project area. Although development of the proposed Project would comply with RCFD requirements and payment of applicable fire mitigation fees, the proposed Project may impact local fire response times potentially requiring the construction of new or expanded facilities. The Office of the Fire Marshal will be consulted to determine the adequacy of existing resources and Project impacts on fire services. This will be further evaluated in the forthcoming EIR.

ii. Police Protection

Potentially Significant Impact. The City of Menifee recently established the Menifee Police Department, which entered service in July 2020. The Police Department is located 5.8 roadway miles southeast of the Project on 29714 Haun Road, Menifee, CA 92586. The Project would develop the vacant site with a new warehouse facility. Construction and operation of the proposed Project would increase the number of structures and employees in the Project area, resulting in additional calls for police protection service. The Menifee Police Department will be consulted to determine existing police resources in the City and Project impacts to services potentially requiring the construction of new or expanded facilities. This topic will be discussed in the forthcoming EIR.

iii. School Services

Less Than Significant Impact. The proposed Project would be developed with one warehouse and related improvements. The light industrial uses would not be expected to generate impacts requiring the construction of new school facilities as the proposed Project would not construct residential development or directly result in an increase of residents. Nevertheless, pursuant to Government Code Section 65995 et seq., new residential and commercial/industrial development are required to pay school impact mitigation fees in the form of development fees, as adopted by the affected school district. SB 50 sets forth a state school facilities construction program that includes restrictions on a local jurisdiction's ability to condition a project on mitigation of a project's impacts on school facilities in excess of fees set forth in the Government Code. These fees are used to finance school facilities and accommodate student growth. According to Section 65996 of the Government Code, fees acquired under SB 50 constitute full mitigation of potential impacts upon the affected school districts, the Romoland Elementary and Middle School District and Perris Union High School District. Therefore, impacts are considered less than significant and the forthcoming EIR will not address potential impacts to schools.

iv. Parks

Less Than Significant Impact. The proposed Project would create a new warehouse facility and would not directly provide new housing opportunities and new residents in the area. The nearest park to the Project is Nova Park located 0.4 miles southeast of the site, at 25444 Nova Lane, Menifee, CA 92585. Although new employees may occasionally use local parks, such an increase in use would be limited and would not result in deterioration to facilities such that the construction or expansion of recreational facilities would be necessary. Therefore, any increased demand on the public parks within the city would be considered a less than significant impact. This issue will not be addressed in the forthcoming EIR.

v. Other Public Facilities

Less Than Significant Impact. The proposed Project involves the development of a warehouse and would not provide new housing opportunities to the area or result in a direct increase in the population of the Project area. As described previously, the employees needed to operate the Project are anticipated to come from the Project region and commute to the Project site. Thus, the proposed Project is not likely to create a significant increase in the use of other public facilities such as libraries, community centers, post offices or animal shelters. Therefore, impacts are considered less than significant and the forthcoming EIR will not address potential impacts to other public facilities.

5.16 RECREATION

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that physical deterioration of the facility would be accelerated?

Less Than Significant Impact. The proposed Project would construct a new industrial warehouse. Implementation of the proposed Project would not directly increase housing or population, which typically cause an increase in the use of existing neighborhood parks and other citywide recreational facilities. The nearest park to the Project is Nova Park located 0.4 miles southeast of the site, on 25444 Nova Lane, Menifee, CA 92585. Although new employees may occasionally increase the use of existing local parks, neighborhood and regionals parks, employees' limited use would not result in deterioration to facilities such that the construction or expansion of recreational facilities would be necessary. Any impacts related to the physical deterioration of existing recreation parks or facilities would be less than significant. This issue will not be addressed in the forthcoming EIR.

b) Require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less Than Significant Impact. The proposed Project would construct a new industrial warehouse facility. The Project applicant does not propose the construction or expansion of recreational facilities. As described above, the indirect increase in population as a result of new employment opportunities would not result in use of recreational facilities sufficient to cause deterioration such that the construction or expansion of recreational facilities would be necessary. Therefore, there would be less than significant impacts associated with recreational facilities and this topic will not be discussed in the forthcoming EIR.

5.17 TRANSPORTATION

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Potentially Significant Impact. Development of the proposed Project would result in an increase in vehicle trips, which may conflict with local plans, policies, or ordinances pertaining to transit, bicycle, and pedestrian modes of travel. Construction of the proposed Project would also temporarily increase vehicle trips on nearby roadways and may affect these modes of travel. A description of the existing and planned circulation system addressing transit, bicycle, and proposed pedestrian (sidewalks) facilities will be evaluated to ensure the proposed Project does not impede these modes of travel. Impacts related to compliance with plans and policies that address the circulation system could occur with implementation of the Project, and these issues will be evaluated in the forthcoming EIR.

b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?

Potentially Significant Impact. Senate Bill (SB) 743 was signed by Governor Brown in 2013 and required the Governor’s Office of Planning and Research (OPR) to amend the State CEQA Guidelines to provide an alternative to LOS for evaluating transportation impacts. SB743 specified that the new criteria should promote the reduction of GHGs, the development of multimodal transportation networks and a diversity of land uses. In response, Section 15064.3 was added to the CEQA Guidelines beginning January 1, 2019. Section 15064.3(c) states that the provisions of the section shall apply statewide beginning on July 1, 2020.

State CEQA Guidelines Section 15064.3 - Determining the Significance of Transportation Impacts states that Vehicle Miles Traveled (VMT) is the most appropriate measure of transportation impacts and provides lead agencies with the discretion to choose the most appropriate methodology and thresholds for evaluating VMT. The City of Menifee TIA guidelines and application of the WRCOG VMT Screening Tool indicates that the proposed Project would not screen out of a VMT analysis. Therefore, a VMT analysis would be prepared utilizing traffic model runs obtained from the Riverside County Model (RIVCOM). Impacts related to VMT could occur with implementation of the proposed Project, and these issues will be evaluated in the forthcoming EIR.

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

Potentially Significant Impact. . The Project proposes to develop Geary Street from the Project frontage north to Ethanac Road. Design features of the proposed Project circulation plan, including access lanes, driveway entrances and exits, and internal roadways will be discussed in the forthcoming EIR regarding potential hazards such as sharp curves or dangerous intersections. Mitigation measures will be recommended as needed.

d) Result in inadequate emergency access?

Less than Significant Impact. Operation of the proposed Project would not result in inadequate emergency access. Access to the Project site would be provided via two driveways from Geary Street and three driveways from Murrieta Road. The proposed Project would include a 26-foot-wide fire access road throughout the site. The Project would also be required to design and construct internal access and provide fire suppression facilities (e.g., hydrants and sprinklers) in conformance with Chapter 8.20 of Title 8 of the Municipal Code. The Office of the Fire Marshal would review the development plans prior to approval to ensure adequate emergency access pursuant to the requirements in the Uniform Fire Code and Section 503 of the California Fire Code (Title 24, California Code of Regulations, Part 9). As such, the proposed Project would not result in inadequate emergency access, and impacts would be less than significant and will not be discussed in the forthcoming EIR.

5.18 TRIBAL CULTURAL RESOURCES

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

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

Potentially Significant Impact. In addition to consultation with Native American tribes that have provided notification to the City pursuant to Assembly Bill 52, a Cultural Resources Assessment will be prepared with a literature review and records search related to potential site-specific tribal cultural resources that may be listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k). Additionally, a Sacred Lands search request will be obtained from the NAHC as part of the tribal consultation process. Results of the updated Cultural Resources Assessment and tribal consultation will be included in the EIR. Mitigation measures will be recommended as needed.

- ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?***

Potentially Significant Impact. Tribal cultural resources are sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either eligible or listed in the California Register of Historical Resources or local register of historical resources (Public Resources Code § 21074). In order to determine whether any tribal cultural resources have the potential to be impacted by the proposed Project, California Native American tribes that are traditionally and culturally affiliated with the Project area will be contacted early in the CEQA process (Public Resources Code § 21080.3.1), and consultation

undertaken with those Native American tribes that express an interest in engaging in consultation for the proposed Project. The forthcoming EIR will evaluate potential impacts of the proposed Project on tribal cultural resources, and mitigation measures will be recommended as needed.

5.19 UTILITIES AND SERVICE SYSTEMS

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

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Potentially Significant Impact. The proposed Project would be served by the existing 27-inch water line and 8-inch sewer line in Murrieta Road and would not require the construction or relocation of water or wastewater facilities. In addition, the Project would connect to the existing electric and natural gas facilities in Murrieta Road. However, development of the site also includes installation of new drainage facilities and roadway infrastructure improvements onsite and offsite. Construction of new storm drain facilities could have a potentially significant impact. Thus, the forthcoming EIR will evaluate the potential impacts of the construction of these facilities and recommend mitigation measures, as needed.

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

Less than Significant Impact. The Project area is served with potable water by EMWD. EMWD has prepared the 2020 Urban Water Management Plan (UWMP) in order to assess long-term water supply sources, demands, reliability, and conservation strategies. EMWD receives its water supplies from local and imported sources. Local supplies include recycled water, potable groundwater, and desalinated groundwater. Imported water is received from the Metropolitan Water District of Southern California (Metropolitan) and accounts for approximately half of EMWD's supply. Projected demands are based on planned development and land use of the

service area. Table UT-1 below summarizes the estimated water supply and demand of EMWD, which is projected to be balanced through 2045. Additionally, the Water Service Reliability and Drought Risk Assessment Section of the UWMP concludes that under dry and multiple dry year scenarios, stored groundwater and imported water from Metropolitan would be able to meet increased demands.

Table UT-1: Eastern Municipal Water District Projected Water Supply and Demand (acre-feet)

	2025	2030	2035	2040	2045
Wholesale Supply	145,930	157,320	168,900	178,700	187,100
Wholesale Demand	145,930	157,320	168,900	178,700	187,100
Difference	0	0	0	0	0
Retail Supply	62,970	57,580	60,000	62,300	64,400
Retail Demand	62,970	57,580	60,000	62,300	64,400
Difference	0	0	0	0	0

Source: EMWD 2020 UWMP

The proposed Project is consistent with the EDC land use designation, which would be classified as industrial use under the sectors analyzed within the UWMP. Therefore, water demands have been accounted for within the 2020 UWMP and impacts related to water supply availability would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project’s projected demand in addition to the provider’s existing commitments?

Less than Significant Impact. The proposed Project is within the boundaries of the EMWD, subservice area of the Perris Valley Regional Wastewater Reclamation Facility (RWRF). The current capacity of the Perris Valley RWRF is 22 million gallons per day (mgd) (EMWD 2021). The facility has a typical daily flow of 15.5 mgd, leaving a remaining capacity of 6.5 mgd.

Based on Table 5.17-2 in the General Plan EIR, industrial uses have a wastewater generation factor of 13.6 gallons per capita per day (gpd). Assuming the Project would employ 652 people, the Project would produce approximately 8,867 gpd of wastewater. Therefore, the proposed Project’s wastewater generation would be within the current capacity of the Perris Valley RWRF and impacts would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less than Significant Impact. The proposed Project would increase the amount of solid waste generated from construction as well as during operation. The City of Menifee contracts with Waste Management, Inc. to transport trash to the El Sobrante Landfill and the Badlands Landfill, described below.

- The El Sobrante Landfill is permitted to accept 16,054 tons per day of solid waste and is permitted to operate through 2051. In January 2023, the landfill had a peak disposal tonnage of 13,692 tons (CalRecycle 2023). Thus, additional capacity is available for 2,362 tons of daily solid waste.
- The Badlands Sanitary Landfill is permitted to accept 5,000 tons per day of solid waste and is permitted to operate through 2059. In January 2023, the landfill had a peak

disposal tonnage of 4,382 tons (CalRecycle 2023). Thus, additional capacity is available for 618 tons of daily solid waste.

Assuming a conservative estimate based on peak disposal tonnage, the two landfills have a combined additional capacity of 2,980 tons per day of solid waste.

Construction

The proposed Project does not involve demolition of existing structures; however, construction of the proposed Project would generate solid waste for landfill disposal from construction packaging and discarded materials. Based on a construction waste factor of 3.89 pounds per square foot (EPA 1998), construction of the Project would generate approximately 1,037 tons of waste. However, Section 5.408.1 of the 2022 California Green Building Standards Code requires demolition and construction activities to recycle or reuse a minimum of 65 percent of the nonhazardous construction and demolition waste. Therefore, construction activities would generate approximately 363 tons of solid waste to be disposed of at the landfill. As described in Section 3, Project Description, construction of the Project is estimated to span 10 months, which would equate to approximately 1.21 tons of solid waste per day. As described above, the two landfills have a combined additional capacity of 2,980 tons per day of solid waste. Therefore, waste generated by construction of the Project would be accommodated and impacts would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

Operation

The City of Menifee General Plan EIR utilizes an industrial solid waste generation rate of 1.42 pounds per 100 square feet per day (City of Menifee General Plan EIR, 2013). Therefore, the proposed Project would generate about 3.79 tons per day of solid waste. Additionally, pursuant to Assembly Bill (AB) 52, the proposed Project would be required to implement a commercial recycling program in order to help meet the statewide goal of at least 75 percent solid waste disposal reduction by the year 2020. Implementation of the mandated commercial recycling program would help reduce the amount of solid waste generated during operation of the proposed Project. As the El Sobrante and Badlands Sanitary Landfills have a combined remaining capacity of 2,980 tons per day of solid waste, waste generated by operation of the proposed Project would be accommodated and impacts would be less than significant. This topic will not be further evaluated in the forthcoming EIR.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact. AB 939, the Integrated Waste Management Act of 1989 (California Public Resources Code Section 40000 et seq.) requires all local governments to develop source reduction, reuse, recycling, and composting programs to reduce tonnage of solid waste going to landfills. Cities must divert at least 50 percent of their solid waste generation into recycling. Compliance with AB 939 is measured for each jurisdiction, in part, as actual disposal amounts compared to target disposal amounts. Actual disposal amounts at or below target amounts comply with AB 939. The City must comply with State law to reduce solid waste generation, promote reuse and require solid waste collection for recycling and composting. The City would require the Project to reduce solid waste generation and recycle materials as much as feasible to reduce solid waste. Additionally, as described above, the Project would be required to comply with Section 5.408.1 of the 2022 California Green Building Standards Code and AB 341, related to construction waste recycling and operational waste recycling, respectively. Because the Project would be required by the City to comply with all set standards, the Project would not have a significant impact to any

federal, state or local statues or regulations related to solid waste. As such, impacts would be less than significant, and this topic will not be further evaluated in the forthcoming EIR.

5.20 WILDFIRE

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

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Potentially Significant Impact. According to the CalFire Fire Hazard Severity Zone Map for the City of Menifee and the High Fire Hazards Areas Map in the City’s General Plan EIR, the Project site is in a State Responsibility Area (SRA) High Fire Hazard Severity Zone (HFHSV). As previously stated in Section 5.9, Hazards and Hazardous Materials, Murrieta Road is designated as an evacuation route. However, the proposed Project would not physically interfere with an adopted emergency response plan or emergency evacuation plan. The proposed Project does not include any characteristics (e.g., permanent road closures or long-term blocking of road access) that would substantially impair or otherwise conflict with an emergency response plan or emergency evacuation plan. Further, the proposed Project would not obstruct or alter any transportation routes that could be used as evacuation routes during emergency events as the proposed Project would be required through the City’s permitting process to implement appropriate measures to facilitate vehicle circulation, as included within construction permits. Thus, implementation of the Project through the City’s permitting process would ensure existing regulations are adhered to and potential construction-related emergency access or evacuation impacts would be less than significant.

The proposed Project would provide adequate emergency access to the site via five new driveways, two driveways from Geary Street and three driveways from Murrieta Road. Both driveways on Geary Street would be accessible by both passenger vehicles and trucks. The proposed Project would also include a 26-foot-wide fire access road throughout the site. Project driveways and internal access would be consistent with the City’s permitting procedures to meet the City’s design standards, stated in the Menifee Development Code Chapter 9,160.050, to ensure adequate

emergency access and evacuation. The proposed Project would also be required to provide fire suppression facilities (e.g., hydrants and sprinklers). The Office of the Fire Marshal and/or Engineering Department would review the development plans as part of the permitting procedures to ensure adequate emergency access pursuant to the requirements in Section 503 of the California Fire Code (Title 24, California Code of Regulations, Part 9). Thus, the proposed Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, and impacts would be less than significant. As such, this topic will not be further evaluated in the forthcoming EIR.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Potentially Significant Impact. The terrain of the Project site and vicinity is generally flat with vegetation susceptible to wildland fires. Additionally, wildfire risks could be exacerbated by the Santa Ana winds which affect the surrounding open space areas. Therefore, impacts related to this topic will be further evaluated in the forthcoming EIR.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Potentially Significant Impact. The proposed Project would construct roadway improvements on Geary Street on the Project frontage and continuing north to Ethanac Road. As such, buildout of the roadways may result in temporary or ongoing impacts to the environment. This topic will be further evaluated in the forthcoming EIR.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Potentially Significant Impact. The proposed Project would construct an offsite stormwater drainage system that may impact peak flows of the site in post-fire conditions. Therefore, impacts related to this topic will be further evaluated in the forthcoming EIR.

5.21 MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Potentially Significant Impact. Development of the proposed Project has the potential to impact habitat of a fish or wildlife species or rare, endangered species of plant or animal, or plant or animal communities. As previously stated, a site-specific biological resources study will be conducted to determine potential biological resources impacts. Additionally, Project ground-disturbing activities could damage previously undiscovered archaeological and/or tribal cultural resources. Thus, impacts to biological and cultural resources are potentially significant and will be analyzed in the forthcoming EIR. Mitigation measures will be recommended as needed.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Potentially Significant Impact. Cumulative impacts are defined as two or more individual effects that, when considered together, are considerable or that compound or increase other environmental impacts. The cumulative impact from several projects is the change in the environment that results from the incremental impact of the development when added to the impacts of other closely related past, present, and reasonably foreseeable or probable future developments. Cumulative impacts

can result from individually minor, but collectively significant, developments taking place over a period. The CEQA Guidelines, Section 15130 (a) and (b), states:

- a. Cumulative impacts shall be discussed when the project's incremental effect is cumulatively considerable.
- b. The discussion of cumulative impacts shall reflect the severity of the impacts and their likelihood of occurrence, but the discussion need not provide as great detail as is provided of the effects attributable to the project. The discussion should be guided by the standards of practicality and reasonableness.

As described above, the proposed Project would construct a warehouse building and related improvements. The construction of the proposed Project would have the potential to result in cumulative impacts to agriculture and forest resources, air quality, biological resources, cultural resources, energy, geology and soils, greenhouse gas, hazardous materials, hydrology and water quality, land use, noise, public services, transportation, tribal cultural resources, utility services, and wildfire. The extent and significance of potential cumulative impacts resulting from the combined effects of the proposed Project plus other past, present, and reasonably foreseeable future projects will be evaluated in the forthcoming EIR.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Potentially Significant Impact. Development of the site into a warehouse facility could directly or indirectly cause substantial adverse effects on human beings if not properly mitigated. The proposed Project could result in impacts to air quality, cultural resources, energy, geology and soils, greenhouse gas, hazardous materials, hydrology and water quality, land use, noise, public services, transportation, tribal cultural resources, utility services, and wildfire that all could result in adverse effects on human beings. Therefore, these impacts will be addressed in the forthcoming EIR, and mitigation measures will be recommended as needed.

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**GEOTECHNICAL INVESTIGATION
PROPOSED INDUSTRIAL BUILDING**

Murrieta Road, North of McLaughlin Road

Menifee, California

for

Mr. Alan J. Sharp



**SOUTHERN
CALIFORNIA
GEOTECHNICAL**
A California Corporation

November 3, 2021

Mr. Alan J. Sharp
300 Spectrum Center Drive, Suite 880
Irvine, California 92618



**SOUTHERN
CALIFORNIA
GEOTECHNICAL**
A California Corporation

Project No.: **21G237-1**

Subject: **Geotechnical Investigation**
Proposed Industrial Building
Murrieta Road, North of McLaughlin Road
Menifee, California

Mr. Sharp:

In accordance with your request, we have conducted a geotechnical investigation at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

A handwritten signature in blue ink, appearing to read "Robert G. Trazo".

Robert G. Trazo, GE 2655
Principal Engineer



A handwritten signature in blue ink, appearing to read "Gregory K. Mitchell".

Gregory K. Mitchell, GE
Principal Engineer



Distribution: (1) Addressee

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1.0 EXECUTIVE SUMMARY

Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

Geotechnical Design Considerations

- Artificial fill soils were encountered at Boring Nos. B-2, B-3, B-4, B-6 and B-8, extending from the ground surface to depths of 2½ to 8± feet.
- The fill soils possess varying strengths and no documentation pertaining to the placement of these fill soils. The existing fill soils are considered to represent undocumented fill. These soils, in their present condition, are not considered suitable for support of the foundation loads of the new structure.
- The near-surface native alluvial soils within the upper 6± feet generally consist of silty clays and silty fine sands which possess variable strength and unfavorable consolidation/collapse characteristics. These soils, in their present condition, are not considered suitable for support of the foundation loads of the new structures. The alluvium greater than 6± feet generally possess high strengths and densities and favorable consolidation/collapse characteristics. Some localized areas of deeper excavation may be required if loose, porous, or low-density native soils are encountered at the base of the overexcavation.
- Remedial grading will be necessary to remove the undocumented fill soils and the upper portion of the near-surface native alluvial soils and replace these materials as compacted structural fill soils.
- Based on the results of the expansion index testing, most of the on-site soils possess low to medium expansion potentials.
- Based on the results of corrosivity testing, the on-site soils are considered to be moderately corrosive to ductile iron pipe.

Site Preparation

- Initial site preparation should include removal of all vegetation, including tree root masses and any organic topsoil.
- Remedial grading is recommended within the proposed building pad area to remove the undocumented fill soils, which extend to depths of 2½ to 8± feet at the boring locations, in their entirety. In addition, the building pad area should be overexcavated to a depth of at least 6 feet below existing grade and to a depth of at least 4 feet below proposed pad grade, whichever is greater. Overexcavation within the foundation areas is recommended to extend to a depth of at least 3 feet below proposed foundation bearing grade.
- After overexcavation has been completed, the subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting subgrade should then be scarified to a depth of 12 inches, moisture conditioned or air dried to 2 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The previously excavated soils may then be replaced as compacted structural fill.

- The new parking area subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompact to at least 90 percent of the ASTM D-1557 maximum dry density.

Building Foundations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 2,500 lbs/ft² maximum allowable soil bearing pressure.
- Reinforcement consisting of at least six (6) No. 5 rebars (3 top and 3 bottom) in strip footings due to the presence of medium expansive soils. Additional reinforcement may be necessary for structural considerations.

Building Floor Slab

- Conventional Slabs-on-Grade, at least 6 inches thick.
- Reinforcement consisting of at least No. 3 bars at 18 inches on center, in both directions, due to the presence of medium expansive soils. The actual floor slab reinforcement should be determined by the structural engineer. Additional reinforcement may be necessary for structural considerations.
- Modulus of Subgrade Reaction: k = 100 psi/in.

Pavement Design

ASPHALT PAVEMENTS (R = 20)					
Materials	Thickness (inches)				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	8	10	12	14	16
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 20)				
Materials	Thickness (inches)			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	7	8½
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 21P351, dated August 6, 2021. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slab, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The site is located on the west side of Murrieta Road, 350± feet north of McLaughlin Road in Menifee, California. The site is bounded to the north by single-family residences (SFRs), to the west by Geary Street, to the south by a vacant lot, and to the east by Murrieta Road. The general location of the site is illustrated on the Site Location Map, included as Plate 1 of this report.

The site consists of multiple contiguous parcels, which total 29.69± acres in size. The southeast area of the site is presently developed with four SFRs. Ground surface cover in this area consists of exposed soil with several medium to large trees. The remaining areas of the site are presently vacant and undeveloped. Ground surface cover in the undeveloped areas consists of exposed soil with sparse native grass and weed growth and sparse areas of trash and debris. The ground is generally uneven due to previous agricultural tilling. A stockpile that is 61,200± ft² in size is located in the south-central portion of the site, directly adjacent to the SFRs.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth and visual observations made at the time of the subsurface investigation, the site slopes to the northeast at a gradient of 1 to 2± percent. The stockpile located in the south-central area of the site is approximately 3 to 4 feet higher than the surrounding topography.

3.2 Proposed Development

SCG was provided with a conceptual site plan prepared by Ware Malcomb. Based on this plan, the site will be developed with one (1) new industrial building. The building will be 568,080± ft² in size, located in the central area of the subject site. Dock-high doors will be constructed in a cross-dock configuration, along a portion of the north and south building walls. The building will be surrounded by asphaltic concrete pavements in the parking and drive areas, Portland cement concrete pavements in the truck court areas, and limited areas of concrete flatwork and landscape planters.

Detailed structural information has not been provided. We assume that the new building will be a single-story structure of tilt-up concrete construction, typically supported on a conventional shallow foundation system with a concrete slab-on-grade floor. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 4 to 7 kips per linear foot, respectively.

No significant amounts of below grade construction, such as basements or crawl spaces, are expected to be included in the proposed development. Based on the assumed topography, cuts

and fills of up to 8 to 10± feet are expected to be necessary to achieve the proposed site grades.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration for this project consisted of eight (8) borings advanced to depths of 10 to 25± feet below the existing site grades. All of the borings were logged during drilling by a member of our staff.

The borings were advanced with hollow-stem augers, by a conventional truck-mounted drilling rig. Representative bulk and relatively undisturbed soil samples were taken during drilling. Relatively undisturbed soil samples were taken with a split barrel "California Sampler" containing a series of one inch long, 2.416± inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. In-situ samples were also taken using a 1.4± inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory.

The approximate locations of the borings are indicated on the Boring Location Plan, included as Plate 2 in Appendix A of this report. The Boring Logs, which illustrate the conditions encountered at the boring locations, as well as the results of some of the laboratory testing, are included in Appendix B.

4.2 Geotechnical Conditions

Artificial Fill

Artificial fill soils were encountered at the ground surface at Boring Nos. B-2, B-3, B-4, B-6 and B-8, extending to depths of 2½ to 8± feet below ground surface. The fill soils consist of very stiff to hard silty clay, medium dense to dense silty fine sand and silty fine to coarse sand, and generally exhibit cementation. The fill soils possess a disturbed and mottled appearance, resulting in their classification as artificial fill.

Alluvium

Native alluvium was encountered beneath the fill soils or at the ground surface at all of the boring locations, extending to at least the maximum depth explored of 25± feet below ground surface. The alluvial soils generally consist of medium dense to very dense silty fine sand, silty fine to coarse sand, fine to coarse sand and stiff to hard silty clay. Occasional layers of medium dense to very dense fine sand, clayey fine to medium sand, fine sandy silt and hard fine to

medium sandy clay were encountered. Some samples are cemented and include calcareous nodules and veining.

Groundwater

Free water was not encountered during the drilling of any of the borings. Based on the moisture content of the recovered soil samples and the lack of free water in the borings, the static groundwater table is at a greater depth than 25± feet below existing site grades.

Recent water level data was obtained from the California State Water Resources Control Board, GeoTracker, website, <https://geotracker.waterboards.ca.gov/>. One monitoring well on record are located 0.72± miles southeast of the site. Water level readings within this monitoring well indicate a high groundwater level of 72± feet below the ground surface in February 2015.

5.0 LABORATORY TESTING

The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths.

Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. Field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Boring Logs and are periodically referenced throughout this report.

Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Consolidation

Selected soil samples have been tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-8 in Appendix C of this report.

Maximum Dry Density and Optimum Moisture Content

A representative bulk sample has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557 and are presented on Plate C-9 in Appendix C of this report. This test is generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

Expansion Index

The expansion potential of the on-site soils was determined in general accordance with ASTM D-4829 as required by the California Building Code (CBC). The testing apparatus is designed to accept a 4-inch diameter, 1-in high, remolded sample. The sample is initially remolded to 50 ± 1

percent saturation and then loaded with a surcharge equivalent to 144 pounds per square foot. The sample is then inundated with water, and allowed to swell against the surcharge. The resultant swell or consolidation is recorded after a 24-hour period. The results of the EI testing are as follows:

<u>Sample Identification</u>	<u>Expansion Index</u>	<u>Expansive Potential</u>
B-2 @ 0 to 5 feet	38	Low
B-6 @ 0 to 5 feet	52	Medium

Soluble Sulfates

A representative sample of the near-surface soils was submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils. The results of the soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

<u>Sample Identification</u>	<u>Soluble Sulfates (%)</u>	<u>Sulfate Classification</u>
B-2 @ 0 to 5 feet	<0.001	Negligible (S0)

Corrosivity Testing

A representative sample of the near-surface soils was submitted to a subcontracted corrosion engineering laboratory to identify potentially corrosive characteristics with respect to common construction materials. The corrosivity testing included a determination of the electrical resistivity, pH, chloride, and nitrate concentrations of the soils, as well as other tests. The results of some of these tests are presented below.

<u>Sample Identification</u>	<u>Saturated Resistivity (ohm-cm)</u>	<u>pH</u>	<u>Chlorides (mg/kg)</u>	<u>Nitrates (mg/kg)</u>
B-2 @ 0 to 5 feet	2,200	7.7	5.5	4.5

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our review, field exploration, laboratory testing and geotechnical analysis, the proposed development is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations.

The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record. The recommendations are provided with the assumption that an adequate program of client consultation, construction monitoring, and testing will be performed during the final design and construction phases to verify compliance with these recommendations. Maintaining Southern California Geotechnical, Inc., (SCG) as the geotechnical consultant from the beginning to the end of the project will provide continuity of services. The geotechnical engineering firm providing testing and observation services shall assume the responsibility of Geotechnical Engineer of Record.

The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structures should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, Southern California Geotechnical (SCG) did not identify any evidence of faulting during the geotechnical investigation. Therefore, the possibility of significant fault rupture on the site is considered to be low.

The potential for other geologic hazards such as seismically induced settlement, lateral spreading, tsunamis, inundation, seiches, flooding, and subsidence affecting the site is considered low.

Seismic Design Parameters

The 2019 California Building Code (CBC) provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2019 edition of the California Building Code (CBC), which was adopted on January 1, 2020.

The 2019 CBC Seismic Design Parameters have been generated using the [SEAOC/OSHPD Seismic Design Maps Tool](http://www.seismicmaps.org), a web-based software application available at the website www.seismicmaps.org. This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-16, upon which the 2019 CBC is based. The application utilizes a database of risk-targeted maximum considered earthquake (MCE_R) site accelerations at 0.01-degree intervals for each of the code documents. The tables below were created using data obtained from the application. The output generated from this program is included as Plate E-1 in Appendix E of this report.

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." **Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.4.8 applies to the proposed structures at this site. However, the structural engineer should verify that this exception is applicable to the proposed structures.** Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	1.418
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.523
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.418
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	0.929
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	0.945
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.620

It should be noted that the site coefficient F_v and the parameters S_{M1} and S_{D1} were not included in the SEAOC/OSHPD Seismic Design Maps Tool output for the 2019 CBC. We calculated these parameters based on Table 1613.2.3(2) in Section 16.4.4 of the 2019 CBC using the value of S_1 obtained from the Seismic Design Maps Tool, assuming that a site-specific ground motion hazards analysis is not required for the proposed buildings at this site.

Liquefaction

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the pore-water pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and plasticity characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean (d_{50}) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Non-sensitive clayey (cohesive) soils which possess a plasticity index of at least 18 (Bray and Sancio, 2006) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

The Riverside County GIS website indicates that the subject site is located within a zone of low liquefaction susceptibility. In addition, the subsurface conditions encountered at the boring locations are not considered to be conducive to liquefaction. These conditions consist of mostly dense to very dense sandy soils with no evidence of a long-term groundwater table within the depths explored by the borings. Based on these considerations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

General

The site is generally underlain by artificial fill soils, extending to depths of 2½ to 8± feet at most of the boring locations. These soils possess variable densities, variable composition, and a disturbed, mottled appearance. Additionally, no documentation regarding the placement and compaction of these soils has been provided. The fill soils are therefore considered to be undocumented fill. The fill soils are underlain by native alluvium which possesses moderate consolidation/collapse potential to a depth of 6± feet below the existing site grades. Therefore, remedial grading is considered warranted within the proposed building area in order to remove the existing artificial fill soils and the upper portion of the near-surface native alluvial soils, and replace these materials as compacted structural fill soils.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near-surface native alluvial soils and replace these materials as compacted structural fill. The native soils that will remain in place below the recommended depth of

overexcavation will not be subject to significant stress increases from the foundations of the new structure. Therefore, following completion of the recommended grading, post-construction settlements are expected to be within tolerable limits.

Expansion

Laboratory testing performed on a representative sample of the near surface soils indicates that these materials possess a low to medium expansion potential (EI = 38 and 52). **Based on the presence of expansive soils, special care should be taken to properly moisture condition and maintain adequate moisture content within all subgrade soils as well as newly placed fills.**

Soluble Sulfates

The results of the soluble sulfate testing indicated a sulfate concentration of less than approximately 0.001 percent for the selected sample of the near-surface soils. This concentration is considered to be "not applicable" (S0) with respect to the American Concrete Institute (ACI) Publication 318-14 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building area.

Corrosion Potential

The results of laboratory testing indicate that a representative sample of the on-site soils possesses a saturated resistivity value of 2,200 ohm-cm, and a pH value of 7.7. These test results have been evaluated in accordance with guidelines published by the Ductile Iron Pipe Research Association (DIPRA). The DIPRA guidelines consist of a point system by which characteristics of the soils are used to quantify the corrosivity characteristics of the site. Resistivity and pH are two of the five factors that enter into the evaluation procedure. Redox potential, relative soil moisture content and sulfides are also included. Although sulfide testing was not part of the scope of services for this project, we have evaluated the corrosivity characteristics of the on-site soils using resistivity, pH and moisture content. Based on these factors, and utilizing the DIPRA procedure, **the on-site soils are considered to be moderately corrosive to ductile iron pipe. Therefore, polyethylene encasement or some other appropriate method of protection will be required for iron pipes.**

A relatively low concentration (5.5 mg/kg) of chlorides were detected in the samples submitted for corrosivity testing. In general, soils possessing chloride concentrations in excess of 500 parts per million (ppm) are considered to be corrosive with respect to steel reinforcement within reinforced concrete. Based on the lack of any significant chlorides in the tested sample, the site is considered to have a C1 chloride exposure in accordance with the American Concrete Institute (ACI) Publication 318 Building Code Requirements for Structural Concrete and Commentary. Therefore, a specialized concrete mix design for reinforced concrete for protection against chloride exposure is not considered warranted.

Nitrates present in soil can be corrosive to copper tubing at concentrations greater than 50 mg/kg. The tested sample possesses a nitrate concentration of 4.5 mg/kg. Based on this test result, the on-site soils are not considered to be corrosive to copper pipe.

Since SCG does not practice in the area of corrosion engineering, we recommend that the client contact a corrosion engineer to provide a more thorough evaluation.

Shrinkage/Subsidence

Removal and recompaction of the existing fill soils and near-surface alluvium is estimated to result in an average shrinkage of 7 to 17 percent. The potential shrinkage estimate is based on dry density testing performed on small-diameter samples taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated trenches where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.1 feet.

These estimates are based on previous experience and the subsurface conditions encountered at the boring locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

Grading and Foundation Plan Review

Grading and foundation plans were not available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary grading and foundation plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

The grading recommendations presented below are based on the subsurface conditions encountered at the boring locations and our understanding of the proposed development. We recommend that all grading activities be completed in accordance with the Grading Guide Specifications included as Appendix D of this report, unless superseded by site-specific recommendations presented below.

Site Stripping and Demolition

Initial site stripping should include removal of any surficial vegetation. This should include any weeds, grasses, shrubs, and trees. Root masses associated with the trees should be removed in their entirety, and the resultant excavations should be backfilled with compacted structural fill

soils. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

Treatment of Existing Soils: Building Pad

Remedial grading should be performed within the proposed building area in order to remove the existing undocumented fill soils. Based on conditions encountered at the boring locations, excavation to depths of 2½ to 8± feet will be required to remove the existing fill soils. The existing soils within the proposed building area are also recommended to be overexcavated to a depth of at least 6 feet below existing grade and to a depth of at least 4 feet below proposed building pad subgrade elevation, whichever is greater.

Where not encompassed within the general building pad overexcavation, additional overexcavation should be performed within the influence zones of the new foundations, to provide for a new layer of compacted structural fill extending to a depth of 3 feet below proposed bearing grade.

The overexcavation areas should extend at least 5 feet beyond the building perimeter and foundations, and to an extent equal to the depth of fill below the new foundations. If the proposed structure incorporates any exterior columns (such as for a canopy or overhang) the overexcavation should also encompass these areas.

Following completion of the overexcavation, the subgrade soils within the building area should be evaluated by the geotechnical engineer to verify their suitability to serve as the structural fill subgrade, as well as to support the foundation loads of the new structure. This evaluation should include proofrolling and probing to identify any soft, loose or otherwise unstable soils that must be removed. Some localized areas of deeper excavation may be required if additional fill materials or loose, porous, or low density native soils are encountered at the base of the overexcavation.

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches, moisture treated to 2 to 4 percent above the optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The previously excavated soils may then be replaced as compacted structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of proposed retaining and non-retaining site walls should be overexcavated to a depth of at least 3 feet below foundation bearing grade and replaced as compacted structural fill as discussed above for the proposed building pad. Any undocumented fill soils within any of these foundation areas should be removed in their entirety. The overexcavation areas should extend at least 3 feet beyond the foundation perimeters, and to an extent equal to the depth of fill below the new foundations. Please note that erection pads are considered to be part of the foundation system. These overexcavation recommendations apply to erection pads also. The overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning, and recompacting the upper 12

inches of exposed subgrade soils, as discussed for the building areas. The previously excavated soils may then be replaced as compacted structural fill.

Please note that if the lateral and/or vertical extents of overexcavation are not achievable for the project retaining walls or site walls, then additional recommendations including, but not limited to reduced design bearing pressures may be required. Additionally, specialized grading techniques such as slot cutting or shoring may be required in order to facilitate construction.

Treatment of Existing Soils: Parking and Drive Areas

Based on economic considerations, overexcavation of the existing soils in the new parking areas is not considered warranted, with the exception of areas where lower strength or unstable soils are identified by the geotechnical engineer during grading.

Subgrade preparation in the new parking and drive areas should initially consist of removal of all soils disturbed during stripping operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 2 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of undocumented fill soils and compressible/collapsible alluvial soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed parking and drive areas. The grading recommendations presented above do not completely mitigate the extent of loose alluvium in the parking areas. As such, settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Treatment of Existing Soils: Flatwork Areas

Subgrade preparation in the new flatwork areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 2 to 4 percent above the optimum moisture content, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Some movement and associated cracking of the flatwork materials should be expected, due to the presence of medium expansive soils. If this movement and the associated cracking cannot be tolerated, consideration should be given to the use of an imported, non-expansive, granular fill material in order to reduce the potential for differential movements of lightly loaded slabs. Such select fill material could be placed within the upper 2± feet below the flatwork subgrade as compacted structural fill

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to 2 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer.
- All grading and fill placement activities should be completed in accordance with the requirements of the 2019 CBC and the grading code of the City of Menifee and/or the County of Riverside.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Imported Structural Fill

All imported structural fill should consist of very low expansive ($EI < 20$), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. As an alternative, a clean sand (minimum Sand Equivalent of 30) may be placed within trenches and compacted in place (jetting or flooding is not recommended). It is recommended that materials in excess of 3 inches in size not be used for utility trench backfill. Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by City of Menifee and/or the County of Riverside. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

6.4 Construction Considerations

Excavation Considerations

The near surface soils generally consist of silty clays, silty sands, sandy silts, and fine to coarse sands. These materials will likely be subject to caving within shallow excavations. Where caving occurs within shallow excavations, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 1.5h:1 for excavations made within silty clays and should not exceed 2h:1v for excavations made within sandy soils. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

Moisture Sensitive Subgrade Soils

The near surface soils generally consist of dry to moist silty clays and will become unstable if exposed to significant moisture infiltration or disturbance by construction traffic. If grading occurs during a period of relatively wet weather, an increase in subgrade instability should also be expected. The site should, therefore, be graded to prevent ponding of surface water and to prevent water from running into excavations.

If the construction schedule dictates that site grading will occur during a period of wet weather, allowances should be made for costs and delays associated with drying the on-site soils or import of a drier, less moisture sensitive fill material. Grading during wet or cool weather may also increase the depth of overexcavation in the pad areas as well as the need for and/or the thickness of the crushed stone stabilization layer, discussed in Section 6.3 of this report.

Expansive Soils

The near surface soils have been determined to possess a medium expansion potential. Therefore, care should be given to proper moisture conditioning of all building pad subgrade soils to a moisture content of 2 to 4 percent above the Modified Proctor optimum during site grading. All imported fill soils should have low expansive (EI < 50) characteristics. **In addition to adequately moisture conditioning the subgrade soils and fill soils during grading, special care must be taken to maintain moisture content of these soils at 2 to 4 percent above the Modified Proctor optimum. This will require the contractor to frequently moisture condition these soils throughout the grading process, unless grading occurs during a period of relatively wet weather.**

Due to the presence of expansive soils at this site, provisions should be made to limit the potential for surface water to penetrate the soils immediately adjacent to the structure. These provisions should include directing surface runoff into rain gutters and area drains, reducing the extent of landscaped areas around the structure, and sloping the ground surface away from the building. Where possible, it is recommended that landscaped planters not be located immediately adjacent to the building. If landscaped planters around the building are necessary,

it is recommended that drought tolerant plants or a drip irrigation system be utilized, to minimize the potential for deep moisture penetration around the structure. Presented below is a list of additional soil moisture control recommendations that should be considered by the owner, developer, and civil engineer:

- Ponding and areas of low flow gradients in unpaved walkways, grass and planter areas should be avoided. In general, minimum drainage gradients of 2 percent should be maintained in unpaved areas.
- Bare soil within five feet of proposed structures should be sloped at a minimum five percent gradient away from the structures (about three inches of fall in five feet), or the same area could be paved with a minimum surface gradient of one percent. Pavement is preferable.
- Decorative gravel ground cover tends to provide a reservoir for surface water and may hide areas of ponding or poor drainage. Decorative gravel is, therefore, not recommended and should not be utilized for landscaping unless equipped with a subsurface drainage system designed by a licensed landscape architect.
- Positive drainage devices, such as graded swales, paved ditches, and catch basins should be installed at appropriate locations within the area of proposed development.
- Concrete walks and flatwork should not obstruct the free flow of surface water to the appropriate drainage devices.
- Area drains should be recessed below grade to allow free flow of water into the drain. Concrete or brick flatwork joints should be sealed with mortar or flexible mastic.
- Gutter and downspout systems should be installed to capture all discharge from roof areas. Downspouts should discharge directly into a pipe or paved surface system to be conveyed offsite.
- Enclosed planters adjoining, or in close proximity to proposed structures, should be sealed at the bottom and provided with subsurface collection systems and outlet pipes.
- Depressed planters should be raised with soil to promote runoff (minimum drainage gradient two percent or five percent, see above), and/or equipped with area drains to eliminate ponding.
- Drainage outfall locations should be selected to avoid erosion of slopes and/or properly armored to prevent erosion of graded surfaces. No drainage should be directed over or towards adjoining slopes.
- All drainage devices should be maintained on a regular basis, including frequent observations during the rainy season to keep the drains free of leaves, soil and other debris.
- Landscape irrigation should conform to the recommendations of the landscape architect and should be performed judiciously to preclude either soaking or excessive drying of the foundation soils. This should entail regular watering during the drier portions of the year and little or no irrigation during the rainy season. Automatic sprinkler systems should, therefore, be switched to manual operation during the rainy season. Good irrigation practice typically requires frequent application of limited quantities of water that are sufficient to sustain plant growth, but do not excessively wet the soils. Ponding and/or run-off of irrigation water are indications of excessive watering.

Other provisions, as determined by the landscape architect or civil engineer, may also be appropriate.

Groundwater

The static groundwater table is considered to exist at a depth greater than 25± feet or more below existing grade. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pad will be underlain by structural fill soils used to replace near-surface alluvial soils. These new structural fill soils are expected to extend to depths of at least 3 feet below proposed foundation bearing grade, underlain by 1± foot of additional soil that has been densified and moisture conditioned in place. Based on this subsurface profile, the proposed structure may be supported on shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 lbs/ft².
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Six (6) No. 5 rebars (3 top and 3 bottom) due to the medium expansion potentials of the on-site soils.
- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressures presented above may be increased by 1/3 when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on standard geotechnical practice. Additional rigidity may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

The foundation subgrade soils should be evaluated at the time of overexcavation, as discussed in Section 6.3 of this report. It is further recommended that the foundation subgrade soils be evaluated by the geotechnical engineer immediately prior to steel or concrete placement. Soils suitable for direct foundation support should consist of newly placed structural fill, compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Any unsuitable materials should be removed to a depth of suitable bearing compacted structural fill, with the resulting excavations backfilled with compacted fill soils. As an alternative, lean concrete slurry (500 to 1,500 psi) may be used to backfill such isolated overexcavations.

The foundation subgrade soils should also be properly moisture conditioned to 2 to 4 percent above the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade.

Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential static settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be less than 1.0 and 0.5 inches, respectively, under static conditions. Differential movements are expected to occur over a 30-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 250 lbs/ft³
- Friction Coefficient: 0.25

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill. The maximum allowable passive pressure is 2,500 lbs/ft².

6.6 Floor Slab Design and Construction

Subgrades which will support new floor slabs should be prepared in accordance with the recommendations contained in the ***Site Grading Recommendations*** section of this report. Based on the anticipated grading which will occur at this site, the floor of the new structure may be constructed as a conventional slab-on-grade supported on newly placed structural fill, extending to a depth of at least 4 feet below proposed finished pad grades. Based on geotechnical considerations, the floor slab may be designed as follows:

- Minimum slab thickness: 6 inches.
- Modulus of Subgrade Reaction: $k = 100$ psi/in.
- Minimum slab reinforcement: No. 3 bars at 18-inches on-center, in both directions, due to the medium expansive potentials of the on-site soils. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.
- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire

area of the proposed slab where such moisture sensitive floor coverings are expected. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.

- Moisture condition the floor slab subgrade soils to 2 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.
- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slab should be completed by the structural engineer to verify adequate thickness and reinforcement. Additional rigidity may be necessary for structural considerations.

6.7 Exterior Flatwork Design and Construction

Subgrades which will support new exterior slabs-on-grade for sidewalks, patios, and other concrete flatwork, should be prepared in accordance with the recommendations contained in the ***Grading Recommendations*** section of this report. As noted previously, flatwork supported on the existing low to medium expansive soils will be subject to minor to moderate amounts of movement as the moisture content within the subgrade soils fluctuates. This movement may cause cracking or other distress within the flatwork. If additional protection against flatwork cracking is desired, consideration should be given to the placement of a 1 to 2-foot-thick layer of very low expansive structural fill beneath all flatwork sections. Assuming that the flatwork is supported on the existing soils, exterior slabs on grade may be designed as follows:

- Minimum slab thickness: 4½ inches due to the expansive potential of the on-site soils.
- Minimum slab reinforcement: No. 3 bars at 18 inches on center, in both directions, due to the presence of medium expansive soils.
- The flatwork at building entry areas should be structurally connected to the perimeter foundation that is recommended to span across the door opening. This recommendation is designed to reduce the potential for differential movement at this joint.

- Moisture condition the flatwork subgrade soils to at least 2 to 4 percent above optimum moisture content, to a depth of at least 12 inches. Adequate moisture conditioning should be verified by the geotechnical engineer 24 hours prior to concrete placement.
- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.
- Control joints should be provided at a maximum spacing of 8 feet on center in two directions for slabs and at 6 feet on center for sidewalks. Control joints are intended to direct cracking. Minor cracking of exterior concrete slabs on grade should be expected.
- Where flatwork is immediately adjacent to landscape planters, a thickened edge should be utilized. This edge should extend to a depth of at least 8 inches and incorporate longitudinal reinforcement consisting of at least two No. 4 bars.
- Expansion or felt joints should be used at the interface of exterior slabs on grade and any fixed structures to permit relative movement.

These recommendations are contingent upon additional expansion index testing being conducted at the completion of rough grading, to verify the actual expansion potential of the flatwork subgrade soils.

6.8 Retaining Wall Design and Construction

Although not indicated on the site plan, the proposed development may require some small retaining walls (less than 3 to 5± feet in height) to facilitate the new site grades and the in dock-high areas of the building.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. **Some of the on-site soils consist of medium expansive silty clays or sandy clays. These materials are not considered suitable for use as retaining wall backfill due to their medium expansive potential and lower strengths.** We have provided parameters assuming the use of on-site soils for retaining wall backfill. The near-surface soils suitable for retaining wall backfill generally consist of silty sands, sandy silts, and clayey sands. Based on their classifications, these materials are expected to possess a friction angle of at least 29 degrees when compacted to 90 percent of the ASTM-1557 maximum dry density.

If desired, SCG could provide design parameters for an alternative select backfill material behind the retaining walls. The use of select backfill material could result in lower lateral earth pressures. In order to use the design parameters for the imported select fill, this material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal. If select

backfill material behind the retaining wall is desired, SCG should be contacted for supplementary recommendations.

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type
		On-Site Silty Sands, Sandy Silts, and Clayey Sands
Internal Friction Angle (ϕ)		29°
Unit Weight		128 lbs/ft ³
Equivalent Fluid Pressure:	Active Condition (level backfill)	45 lbs/ft ³
	Active Condition (2h:1v backfill)	74 lbs/ft ³
	At-Rest Condition (level backfill)	66 lbs/ft ³

Regardless of the backfill type, the walls should be designed using a soil-footing coefficient of friction of 0.25 and an equivalent passive pressure of 250 lbs/ft³. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

Seismic Lateral Earth Pressures

In accordance with the 2019 CBC, any retaining walls more than 6 feet in height must be designed for seismic lateral earth pressures. If walls 6 feet or more are required for this site, the geotechnical engineer should be contacted for supplementary seismic lateral earth pressure recommendations.

Retaining Wall Foundation Design

The retaining wall foundations should be supported within newly placed compacted structural fill, extending to a depth of at least 3 feet below the proposed bearing grade. Foundations to support new retaining walls should be designed in accordance with the general Foundation Design Parameters presented in a previous section of this report.

Backfill Material

On-site soils not including silty clays or sandy clays with an $EI < 20$ may be used to backfill the retaining walls. However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

It is recommended that a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls be used. If the drainage composite material is not covered by an impermeable surface, such as a structure or pavement, a 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils. The drainage composite should be separated from the backfill soils by a suitable geotextile, approved by the geotechnical engineer.

All retaining wall backfill should be placed and compacted under engineering controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 2-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 10-foot on-center spacing. Alternatively, 4-inch diameter holes at an approximate 20-foot on-center spacing can be used for this type of drainage system. In addition, the weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.
- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system. The actual design of this type of system should be determined by the civil engineer to verify that the drainage system possesses the adequate capacity and slope for its intended use.

6.9 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the ***Site Grading Recommendations*** section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on

either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The near-surface soils generally consist of silty clays, silty sands, sandy silts, and clayey sands. These soils are considered to possess fair to good pavement support characteristics with estimated R-values of 20 to 40. The subsequent pavement design is based upon an R-value of 20. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading. Depending upon the results of the R-value testing, it may be feasible to use thinner pavement sections in some areas of the site.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20 year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.

ASPHALT PAVEMENTS (R = 20)					
Materials	Thickness (inches)				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	8	10	12	14	16
Compacted Subgrade	12	12	12	12	12

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" Standard Specifications for Public Works Construction.

Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 20)				
Materials	Thickness (inches)			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	5½	7	8½
Compacted Subgrade (95% minimum compaction)	12	12	12	12

The concrete should have a 28-day compressive strength of at least 3,000 psi. Any reinforcement within the PCC pavements should be determined by the project structural engineer. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.

7.0 GENERAL COMMENTS

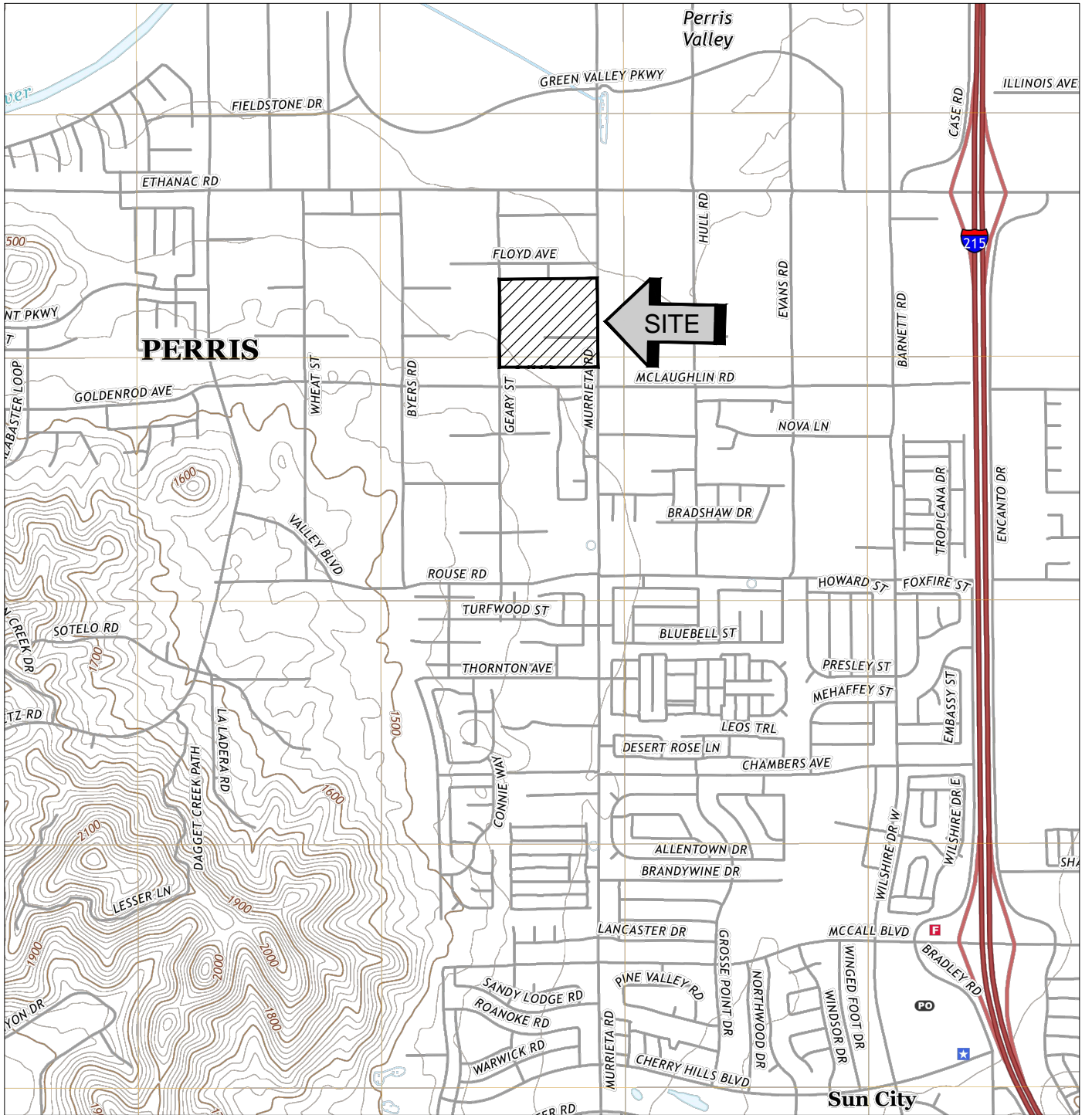
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

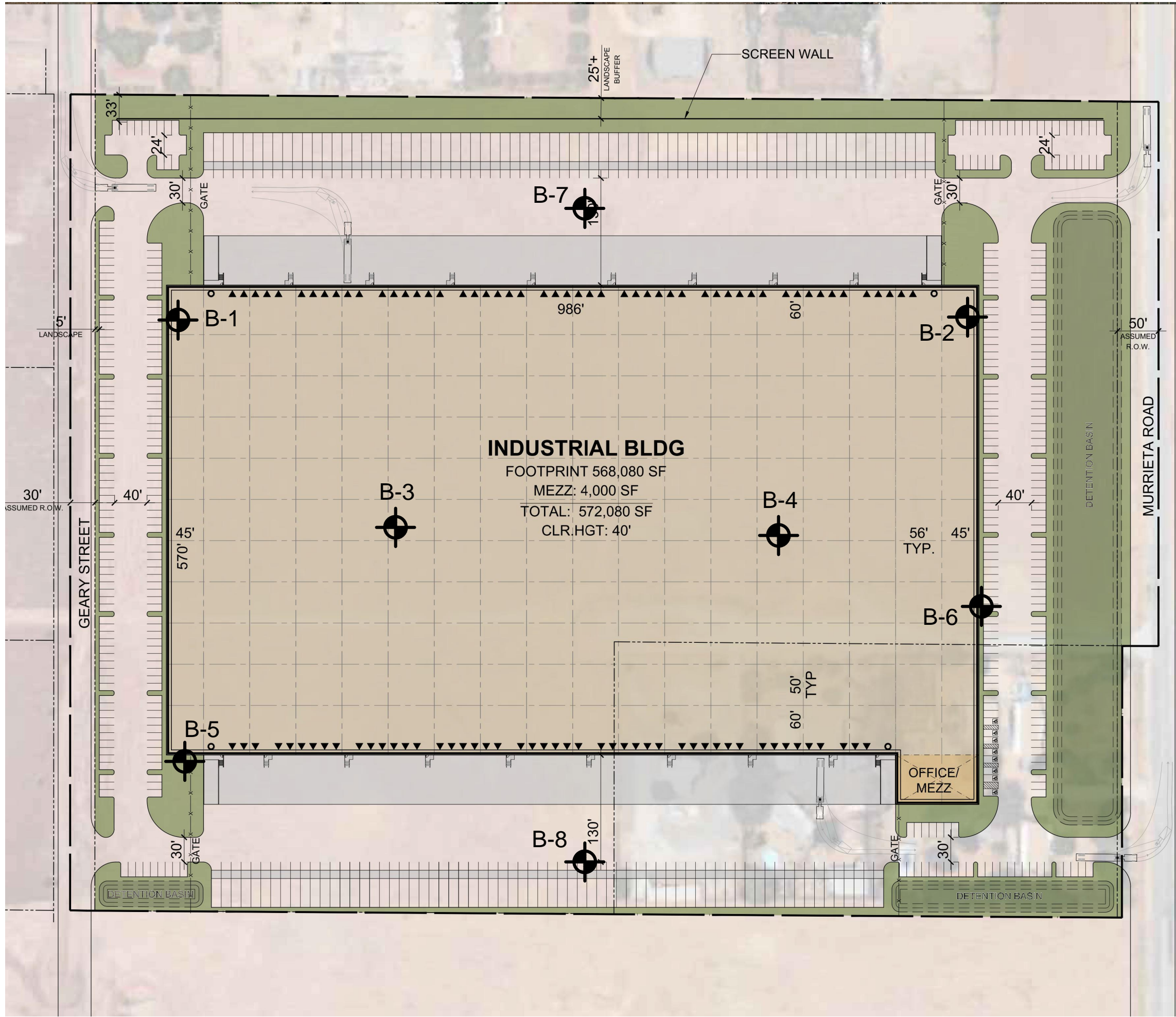
APPENDIX A



SOURCE: USGS TOPOGRAPHIC MAP OF THE ROMOLAND QUADRANGLE, RIVERSIDE COUNTY, CALIFORNIA, 2018



SITE LOCATION MAP	
PROPOSED INDUSTRIAL BUILDING	
MENIFEE, CALIFORNIA	
SCALE: 1" = 2000'	 SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: MD	
CHKD: RGT	
SCG PROJECT 21G237-1	
PLATE 1	



INDUSTRIAL BLDG

FOOTPRINT 568,080 SF
 MEZZ: 4,000 SF
 TOTAL: 572,080 SF
 CLR.HGT: 40'

PROJECT	
SITE AREA	
GROSS	
NET	
OUTLINE	
FOOT	
MEZZ	
TOTAL	
OFFICE	
WARE	
OFFICE	
PAR:	
GROSS	
NET	
COVERED	
GROSS	
NET	
PARKING	
WARE	
1ST FL	
2ND FL	
OVER	
OFFICE	
TOTAL	
PARKING	
AUTO	
TRAIL	
TRUCK	
CS	
CS	



GEOTECHNICAL LEGEND


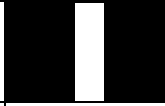

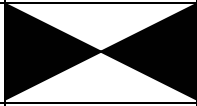

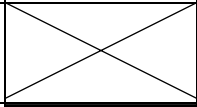


APPROXIMATE BORING LOCATION

NOTES: SITE PLAN PREPARED BY WARE MALCOMB.

BORING LOCATION PLAN	
PROPOSED INDUSTRIAL BUILDING	
MENIFEE, CALIFORNIA	
SCALE: 1" = 120'	SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: MD	
CHKD: RGT	
SCG PROJECT 21G237-1	
PLATE 2	

APPENDIX B

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH:

Distance in feet below the ground surface.

SAMPLE:

Sample Type as depicted above.

BLOW COUNT:

Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.:

Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG:

Graphic Soil Symbol as depicted on the following page.

DRY DENSITY:

Dry density of an undisturbed or relatively undisturbed sample in lbs/ft³.

MOISTURE CONTENT:

Moisture content of a soil sample, expressed as a percentage of the dry weight.

LIQUID LIMIT:

The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT:

The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE:

The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR:

The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
<p>COARSE GRAINED SOILS</p> <p>MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE</p>	<p>GRAVEL AND GRAVELLY SOILS</p>	<p>CLEAN GRAVELS</p> <p>(LITTLE OR NO FINES)</p>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<p>MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE</p>	<p>CLEAN SANDS</p> <p>(LITTLE OR NO FINES)</p>		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	<p>MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE</p>	<p>SAND AND SANDY SOILS</p>	<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		SM	SILTY SANDS, SAND - SILT MIXTURES
			<p>CLEAN SANDS</p> <p>(LITTLE OR NO FINES)</p>		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
	<p>FINE GRAINED SOILS</p> <p>MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE</p>	<p>SILTS AND CLAYS</p>	<p>LIQUID LIMIT LESS THAN 50</p>		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
					CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
					OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
		<p>SILTS AND CLAYS</p>	<p>LIQUID LIMIT GREATER THAN 50</p>		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY	
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
<p>HIGHLY ORGANIC SOILS</p>				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS



JOB NO.: 21G237-1	DRILLING DATE: 10/7/21	WATER DEPTH: Dry
PROJECT: Proposed Industrial Building	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 23 feet
LOCATION: Menifee, California	LOGGED BY: Jamie Hayward	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS					COMMENTS	
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT		PASSING #200 SIEVE (%)
SURFACE ELEVATION: --- MSL											
		13	4.5		ALLUVIUM: Dark Brown Silty Clay, little Calcareous nodules, very stiff-moist		16				
		21			Light Brown Silty fine Sand, trace medium to coarse Sand, little to some Calcareous nodules, medium dense-moist		13				
5		56	4.5		Light Brown fine to medium Sandy Clay, little coarse Sand, cemented, hard-damp		8				
		40			Light Brown Silty fine Sand, trace Calcareous nodules, dense-moist		11				
10											
		38					15				
15											
		77/11"			Brown fine Sandy Silt, very dense-very moist		20				
20											
		64					17				
25											
Boring Terminated at 25'											

TBL_21G237-1.GPJ_SOCALGEO.GDT 11/3/21



JOB NO.: 21G237-1	DRILLING DATE: 10/7/21	WATER DEPTH: Dry
PROJECT: Proposed Industrial Building	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 14 feet
LOCATION: Menifee, California	LOGGED BY: Jamie Hayward	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: --- MSL											
	X	25	4.5	[Diagonal Hatching]	FILL: Red Brown Silty Clay, little fine Sand, mottled, very stiff-damp to moist	117	12				
	X	74/10"	4.5	[Diagonal Hatching]		121	8				
5	X	39		[Dotted Pattern]	ALLUVIUM: Red Brown Silty fine to coarse Sand, trace fine Gravel, trace Iron Oxide staining, medium dense to dense-damp to moist	110	8				
	X	50/5"		[Dotted Pattern]	@ 7 feet, Light Brown	109	11				
10	X	49		[Dotted Pattern]	Red Brown Silty fine Sand, trace to little medium to coarse Sand, dense-moist	114	14				
15	X	16		[Dotted Pattern]	Light Gray Brown fine to medium Sand, trace coarse Sand, medium dense-damp		5				
20	X	17		[Dotted Pattern]			6				
					Boring Terminated at 20'						

EI = 38 @ 0-5'

TBL_21G237-1.GPJ_SOCALGEO.GDT 11/3/21



JOB NO.: 21G237-1	DRILLING DATE: 10/7/21	WATER DEPTH: Dry
PROJECT: Proposed Industrial Building	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 12 feet
LOCATION: Menifee, California	LOGGED BY: Jamie Hayward	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: --- MSL											
	X	26		[Symbol]	FILL: Brown Silty fine Sand, little medium to coarse Sand, trace fine Root Fibers, medium dense-damp	127	7				
	X	24	4.5	[Symbol]	FILL: Brown Silty Clay, little fine Sand, trace fine to coarse Gravel, cemented, mottled, very stiff-damp						
	X	77/9"		[Symbol]	ALLUVIUM: Red Brown Silty Clay, trace medium to coarse Sand, cemented, hard-damp	119	12				
5	X	77/9"		[Symbol]	Light Red Brown Clayey fine to medium Sand, little Silt, trace coarse Sand, trace fine Gravel, very dense-damp	110	7				
	X	79/10"		[Symbol]	Light Red Brown Silty fine to coarse Sand, trace Clay, very dense-damp to moist	120	10				
10	X	77		[Symbol]		121	8				
	X	53		[Symbol]	Light Brown fine to coarse Sand, very dense-damp		5				
15	X			[Symbol]							
Boring Terminated at 15'											

TBL 21G237-1.GPJ_SOCALGEO.GDT 11/3/21



JOB NO.: 21G237-1 DRILLING DATE: 10/7/21 WATER DEPTH: Dry
 PROJECT: Proposed Industrial Building DRILLING METHOD: Hollow Stem Auger CAVE DEPTH: 13 feet
 LOCATION: Menifee, California LOGGED BY: Jamie Hayward READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: --- MSL											
		38			FILL: Red Brown Silty Clay, little fine Sand, trace medium to coarse Sand, very stiff-damp	128	6				
		57			FILL: Red Brown Silty fine to coarse Sand, little Clay, slightly cemented, mottled, dense-damp	128	4				
5		50/5"			ALLUVIUM: Red Brown Silty Clay, little fine Sand, little Calcareous nodules, hard-damp to moist	107	9				
		87/9"				123	8				
10		53			Red Brown fine to coarse Sand, trace Clay, dense-damp	123	7				
		49			Light Red Brown fine to coarse Sand, dense-damp		6				
15					Boring Terminated at 15'						

TBL_21G237-1.GPJ_SOCALGEO.GDT 11/3/21



JOB NO.: 21G237-1	DRILLING DATE: 10/7/21	WATER DEPTH: Dry
PROJECT: Proposed Industrial Building	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 17 feet
LOCATION: Menifee, California	LOGGED BY: Jamie Hayward	READING TAKEN: At Completion

FIELD RESULTS				GRAPHIC LOG	DESCRIPTION	LABORATORY RESULTS					COMMENTS	
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)			DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)		ORGANIC CONTENT (%)
SURFACE ELEVATION: --- MSL												
	X	50/5"			ALLUVIUM: Red Brown Silty Clay, some fine Sand, little fine to coarse Gravel, cemented, hard-damp	130	8					
	X	65/10"	4.0		ALLUVIUM: Light Red Brown Silty Clay, some fine Sand, little to some Calcareous nodules/veining, hard-damp to moist	108	13					
5	X	50/4"			Light Brown Clayey fine to medium Sand, little Silt, very dense-damp	115	8					
	X	62			Light Brown fine to medium Sand, little Silt, little coarse Sand, weakly cemented, dense-damp	110	5					
10	X	47				111	3					
	X	42			Light Brown fine to coarse Sand, trace Silt, dense-damp		5					
15	X	51			Brown Silty fine Sand to fine Sandy Silt, weakly cemented, very dense-damp to moist		12					
20	X											
Boring Terminated at 20'												

TBL 21G237-1.GPJ_SOCALGEO.GDT 11/3/21



JOB NO.: 21G237-1	DRILLING DATE: 10/7/21	WATER DEPTH: Dry
PROJECT: Proposed Industrial Building	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 3 feet
LOCATION: Menifee, California	LOGGED BY: Jamie Hayward	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: --- MSL											
				FILL	FILL: Red Brown Silty Clay, little fine Sand, cemented, mottled, hard-damp to moist		8				
		40	4.5								EI = 52 @ 0-5'
		23	4.5				15				
5											
		32	4.5		ALLUVIUM: Red Brown fine to medium Sandy Clay, some Silt, weakly cemented, hard-damp		10				
					Red Brown Silty fine to coarse Sand, dense-damp		7				
10		35									
					Red Brown to Brown fine Sandy Silt to Silty fine Sand, trace medium to coarse sand, dense-moist		13				
15		34									
					Light Red Brown fine to coarse Sand, dense-damp		4				
20		31									
					Gray Brown Silty fine to coarse Sand, dense-moist		10				
25		44									
					Boring Terminated at 25'						

TBL 21G237-1.GPJ_SOCALGEO.GDT 11/3/21



JOB NO.: 21G237-1	DRILLING DATE: 10/7/21	WATER DEPTH: Dry
PROJECT: Proposed Industrial Building	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 8 feet
LOCATION: Menifee, California	LOGGED BY: Jamie Hayward	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: --- MSL											
				[Diagonal Hatching]	ALLUVIUM: Brown Silty Clay, little fine Sand, little Calcareous nodules, hard-damp		7				
5		45	4.5	[Diagonal Hatching]							
				[Dotted Pattern]	Brown fine to coarse Sand, trace Silt, trace fine to coarse Gravel, very dense-damp		4				
		58		[Diagonal Hatching]							
				[Diagonal Hatching]	Light Brown Silty Clay, little fine to coarse Sand, mottled, hard-damp		7				
		55		[Diagonal Hatching]							
				[Dotted Pattern]	Brown fine to coarse Sand, trace Silt, very dense-moist		8				
		66		[Dotted Pattern]							
10				[Dotted Pattern]							
Boring Terminated at 10'											

TBL_21G237-1.GPJ_SOCALGEO.GDT 11/3/21



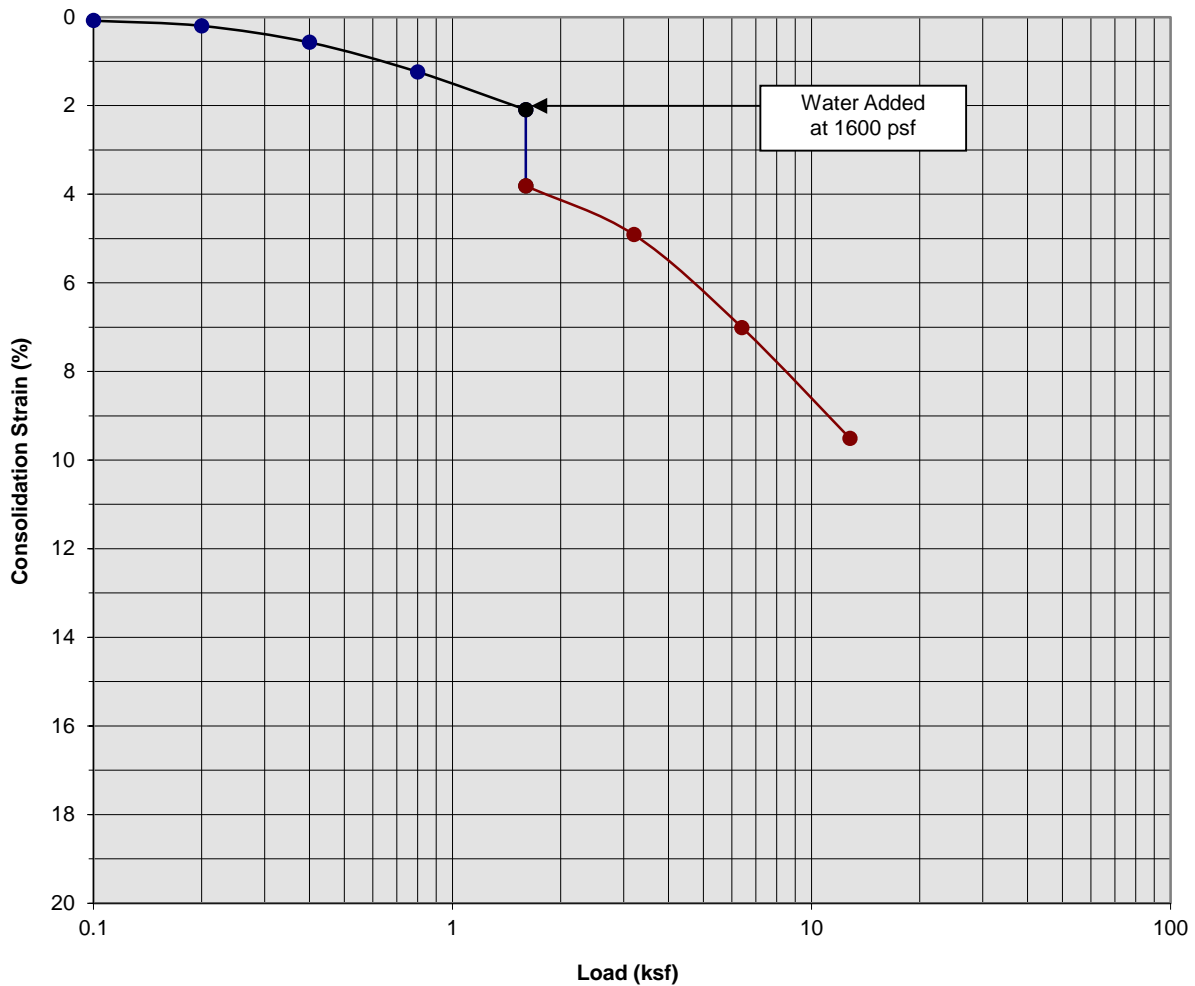
JOB NO.: 21G237-1	DRILLING DATE: 10/7/21	WATER DEPTH: Dry
PROJECT: Proposed Industrial Building	DRILLING METHOD: Hollow Stem Auger	CAVE DEPTH: 6 feet
LOCATION: Menifee, California	LOGGED BY: Jamie Hayward	READING TAKEN: At Completion

FIELD RESULTS				DESCRIPTION	LABORATORY RESULTS						COMMENTS
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)		GRAPHIC LOG	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	
SURFACE ELEVATION: --- MSL											
					<u>FILL</u> : Brown Silty Clay, little fine Sand, trace medium Sand, mottled, cemented, very stiff to hard-damp to moist		5				
							11				
5							13				
							11				
					<u>ALLUVIUM</u> : Brown Silty fine to coarse Sand, little Clay, trace Calcareous nodules/veining, very dense-moist						
10											
					Boring Terminated at 10'						

TBL_21G237-1.GPJ_SOCALGEO.GDT 11/3/21

A P P E N D I X C

Consolidation/Collapse Test Results



Classification: FILL: Red Brown Silty Clay, little fine Sand

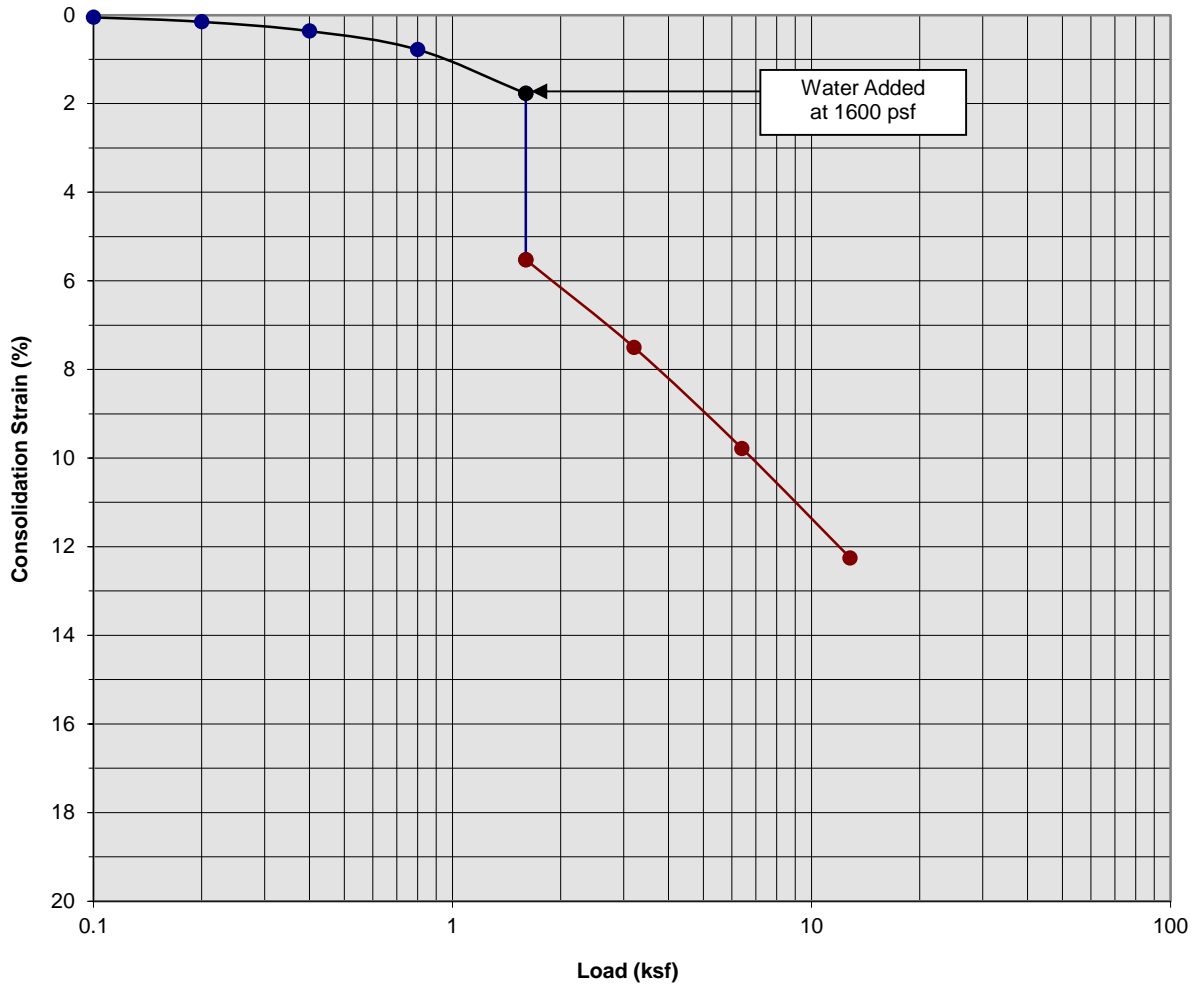
Boring Number:	B-2	Initial Moisture Content (%)	8
Sample Number:	---	Final Moisture Content (%)	16
Depth (ft)	3 to 4	Initial Dry Density (pcf)	121.5
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	134.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.72

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-1



SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Red Brown Silty fine to coarse Sand

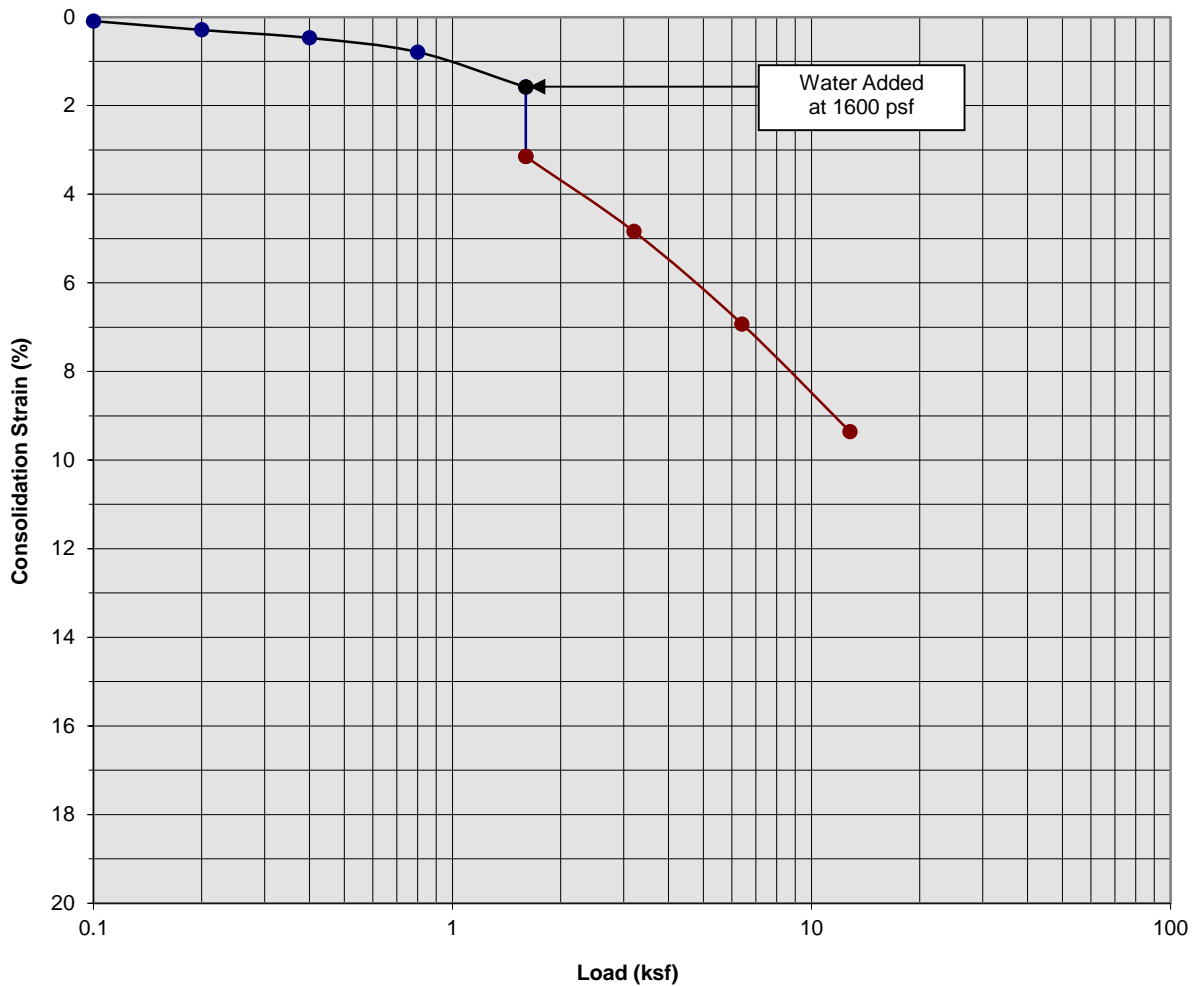
Boring Number:	B-2	Initial Moisture Content (%)	8
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	5 to 6	Initial Dry Density (pcf)	110.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	125.7
Specimen Thickness (in)	1.0	Percent Collapse (%)	3.75

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-2



SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Brown Silty fine to coarse Sand

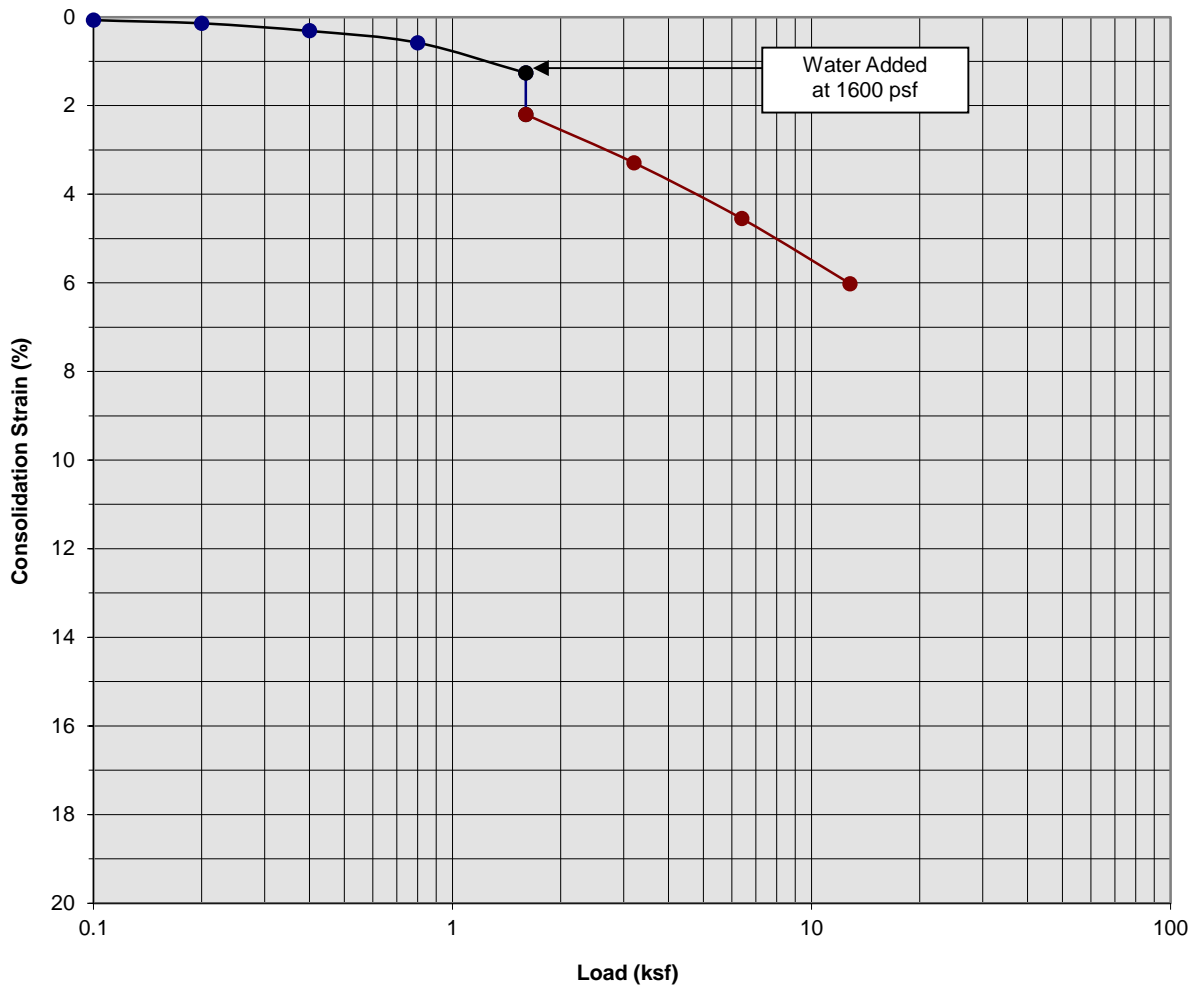
Boring Number:	B-2	Initial Moisture Content (%)	11
Sample Number:	---	Final Moisture Content (%)	19
Depth (ft)	7 to 8	Initial Dry Density (pcf)	108.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	120.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.57

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-3



**SOUTHERN
 CALIFORNIA
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Consolidation/Collapse Test Results



Classification: Red Brown Silty fine Sand, trace to little medium to coarse Sand

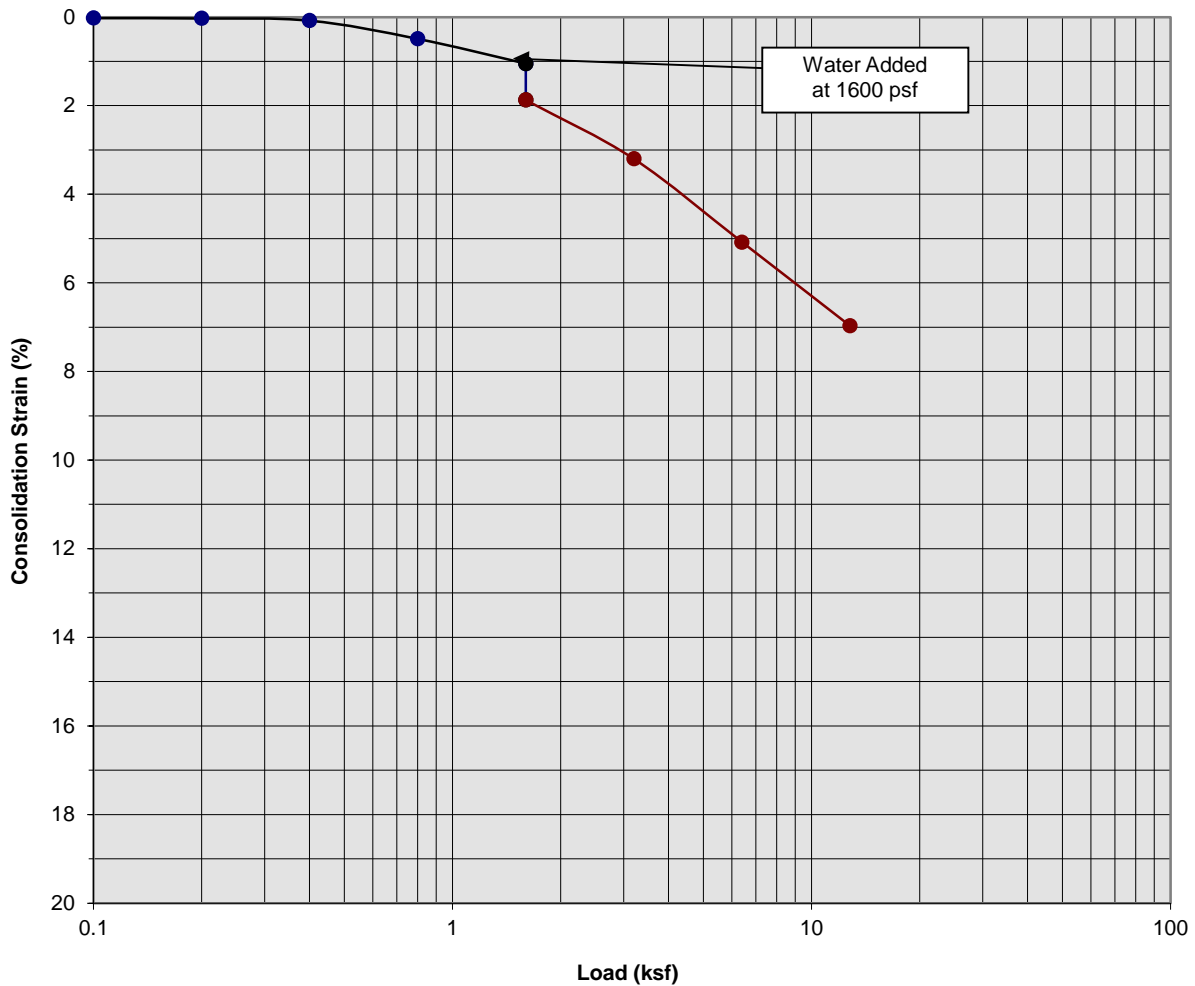
Boring Number:	B-2	Initial Moisture Content (%)	4
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	9 to 10	Initial Dry Density (pcf)	114.7
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	121.9
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.94

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-4



**SOUTHERN
 CALIFORNIA
 GEOTECHNICAL**
A California Corporation

Consolidation/Collapse Test Results



Classification: Red Brown Silty Clay, trace medium to coarse Sand

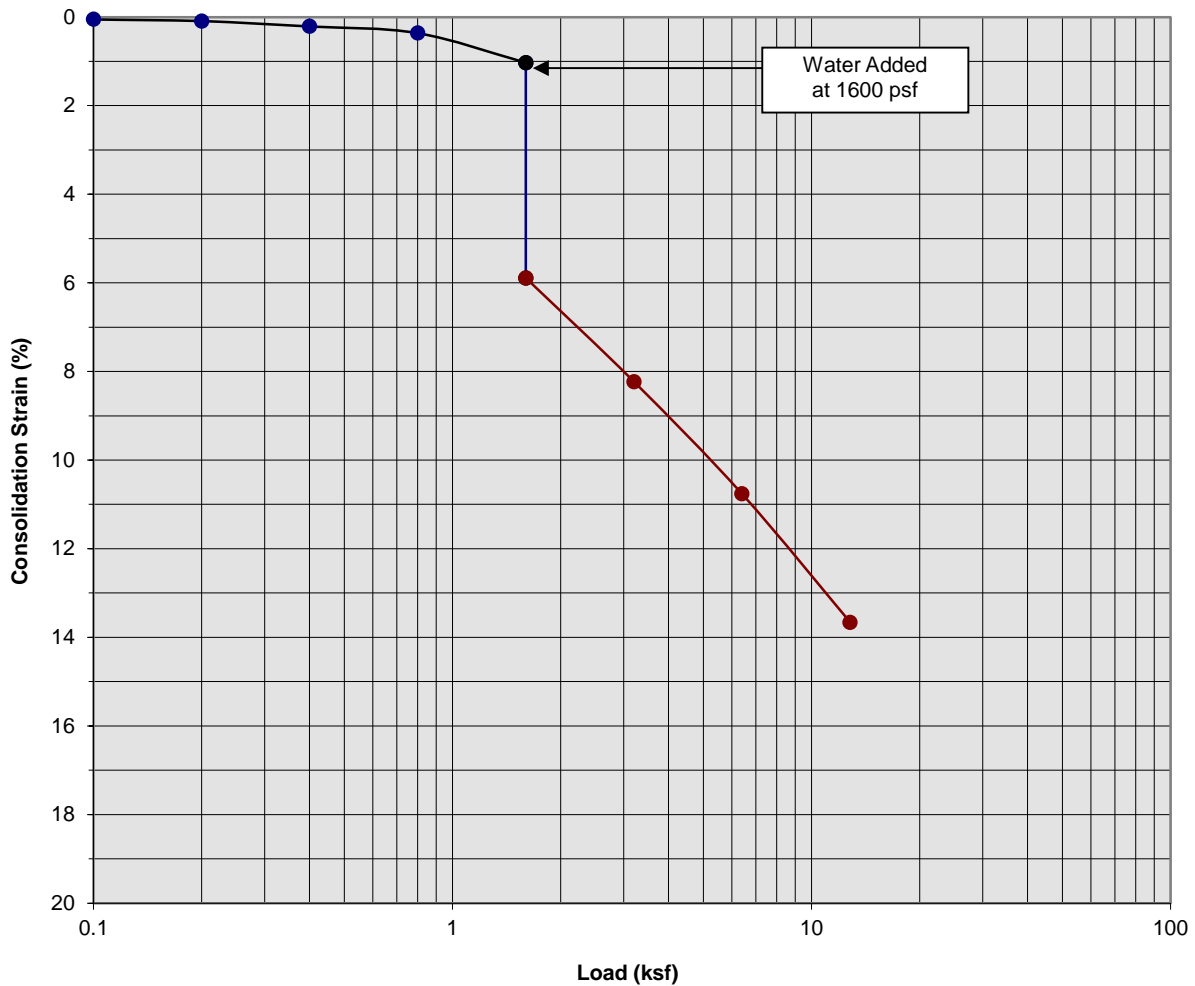
Boring Number:	B-3	Initial Moisture Content (%)	12
Sample Number:	---	Final Moisture Content (%)	17
Depth (ft)	3 to 4	Initial Dry Density (pcf)	119.2
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	127.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.82

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-5



SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Red Brown Silty Clay, trace medium to coarse Sand

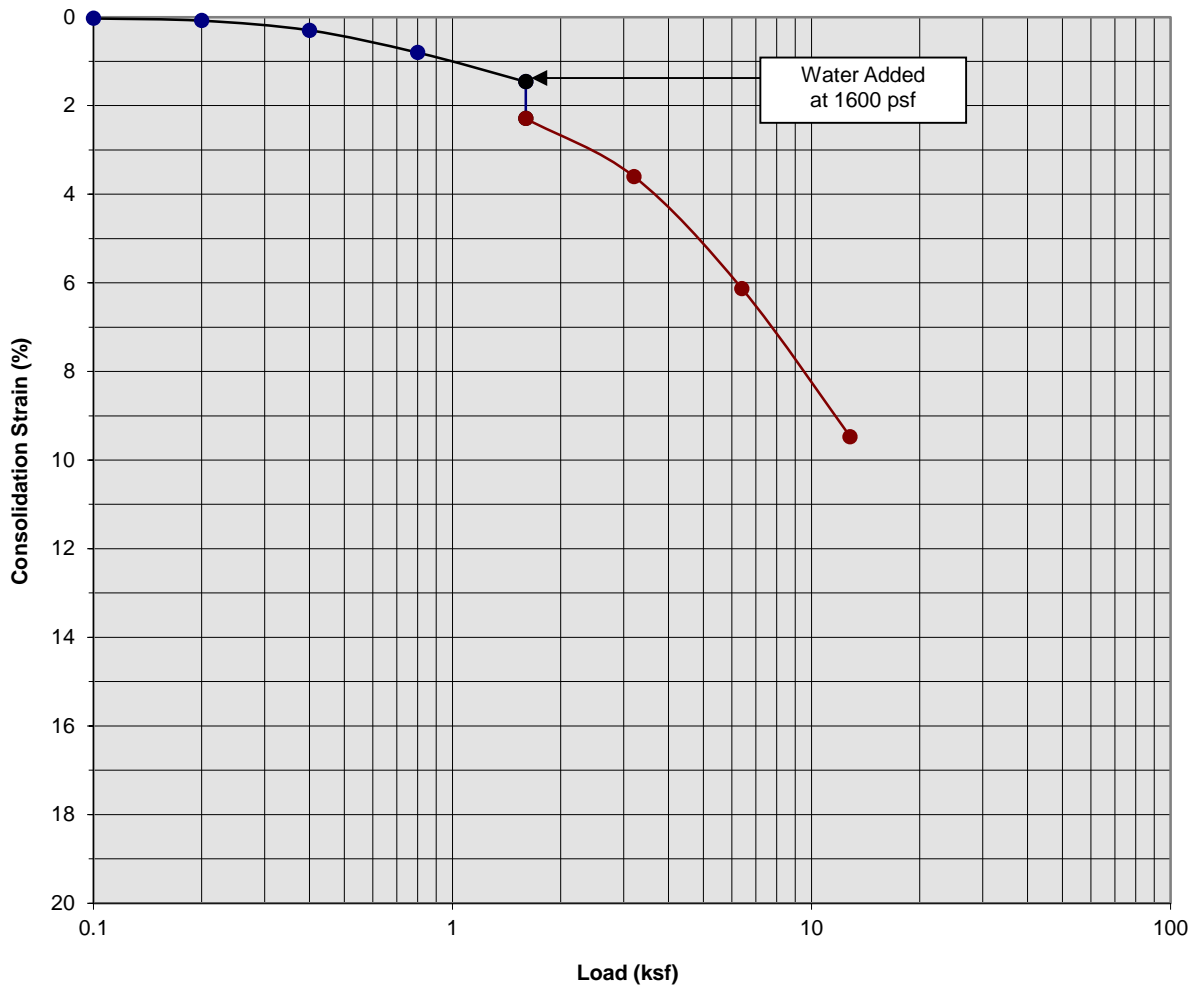
Boring Number:	B-3	Initial Moisture Content (%)	7
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	5 to 6	Initial Dry Density (pcf)	109.8
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	127.1
Specimen Thickness (in)	1.0	Percent Collapse (%)	4.86

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-6



SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Red Brown Silty fine to coarse Sand, trace Clay

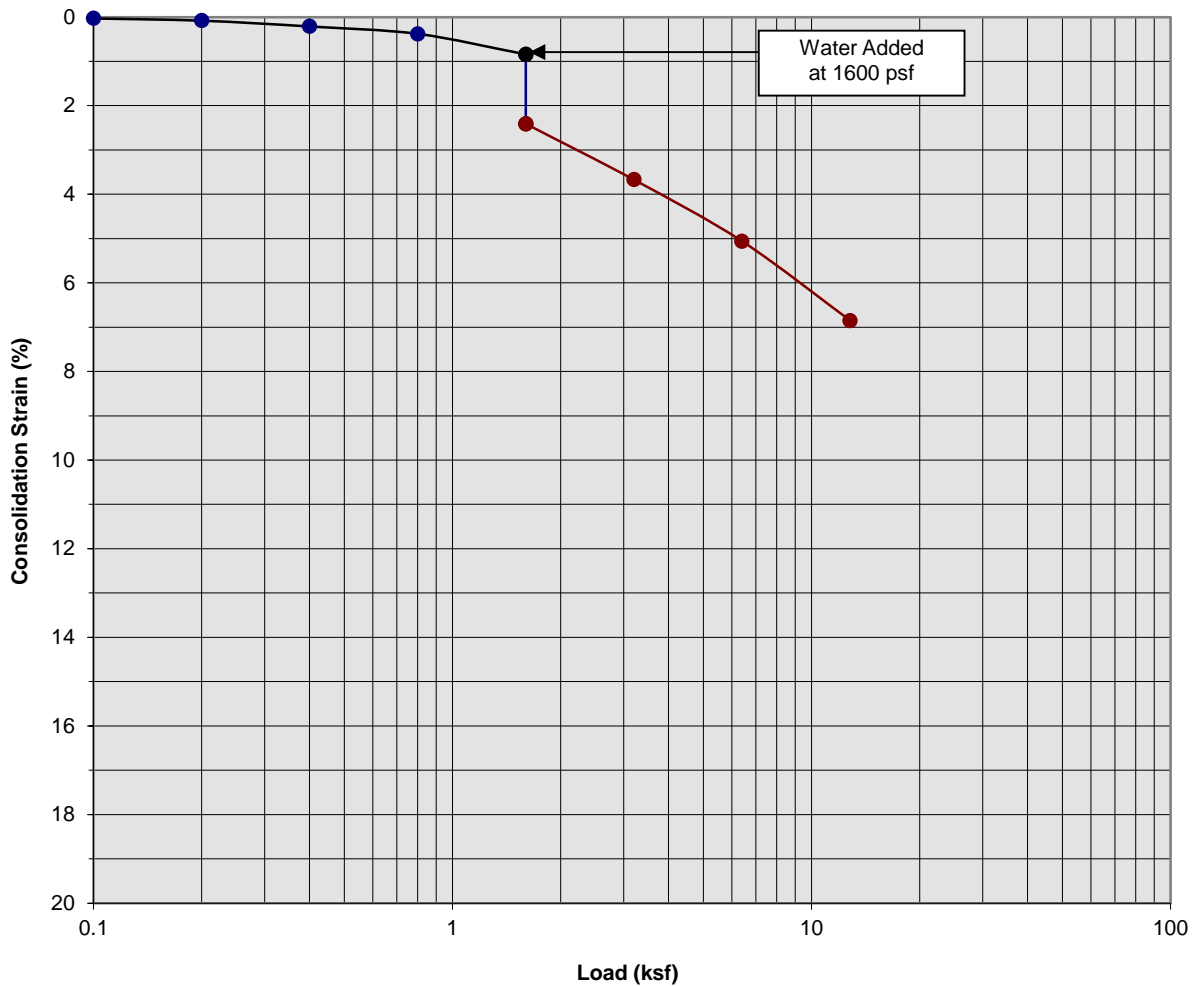
Boring Number:	B-3	Initial Moisture Content (%)	10
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	7 to 8	Initial Dry Density (pcf)	120.6
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	133.2
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.83

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-7



SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Light Red Brown Silty fine to coarse Sand, trace Clay

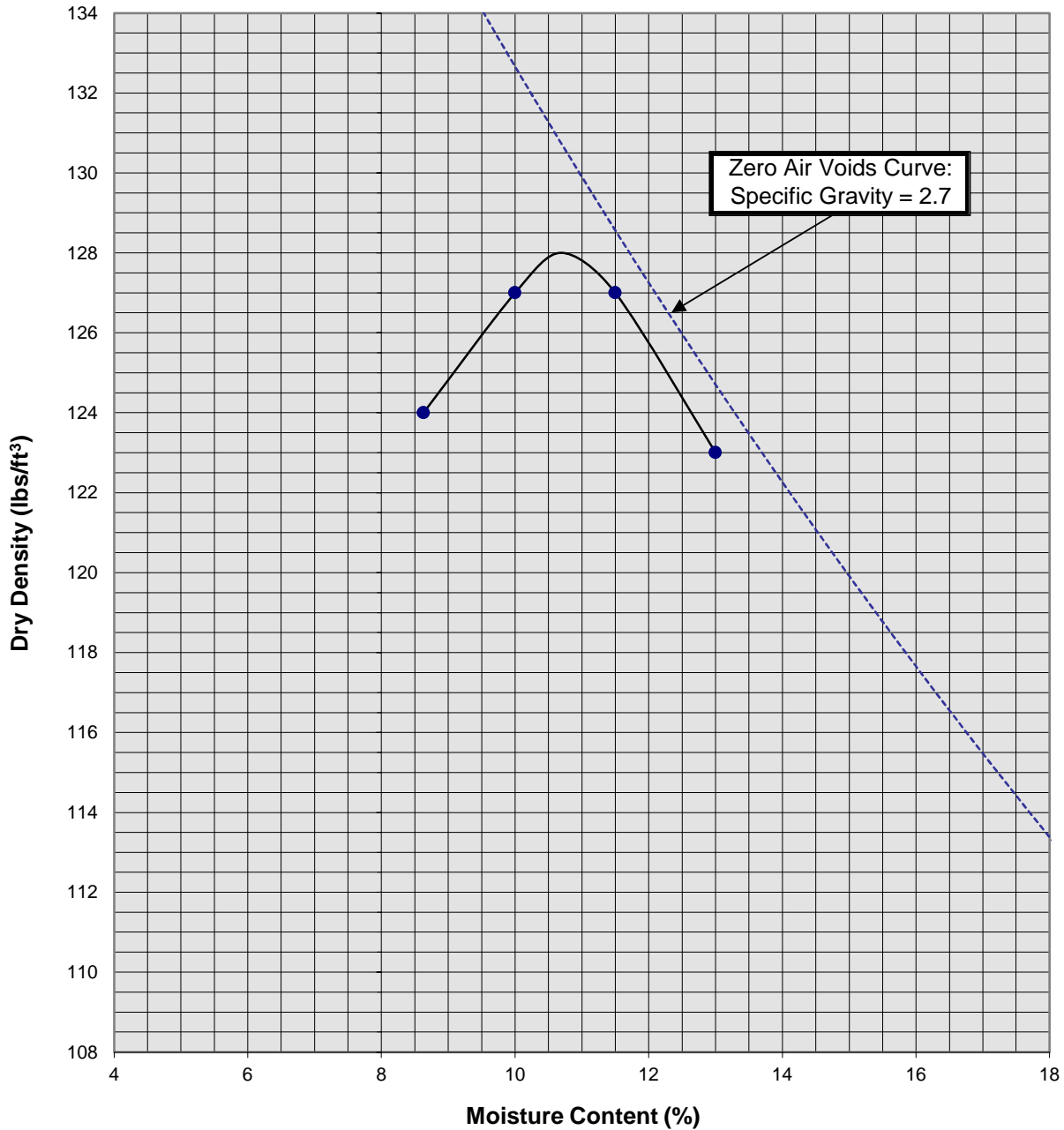
Boring Number:	B-3	Initial Moisture Content (%)	8
Sample Number:	---	Final Moisture Content (%)	12
Depth (ft)	9 to 10	Initial Dry Density (pcf)	121.6
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	130.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	1.57

Proposed Industrial Building
 Menifee, California
 Project No. 21G237-1
PLATE C-8



**SOUTHERN
 CALIFORNIA
 GEOTECHNICAL**
A California Corporation

Moisture/Density Relationship ASTM D-1557



Soil ID Number		B-2 @ 0 to 5'
Optimum Moisture (%)		10.5
Maximum Dry Density (pcf)		128
Soil Classification	Red Brown Silty Clay, little fine Sand	

Proposed Industrial Building
Menifee, CA
Project No. 21G237-1
PLATE C-9



SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.
- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.
- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.
- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.
- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.
- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.
- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.
- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.
- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.
- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.
- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted
- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as "contaminated," and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.
- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.
- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.
- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:
 - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.
 - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.
- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.
- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.
- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.
- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.
- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.
- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.
- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.
- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.
- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.
- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.
- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.
- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core
- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.
- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.
- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).
- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.
- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

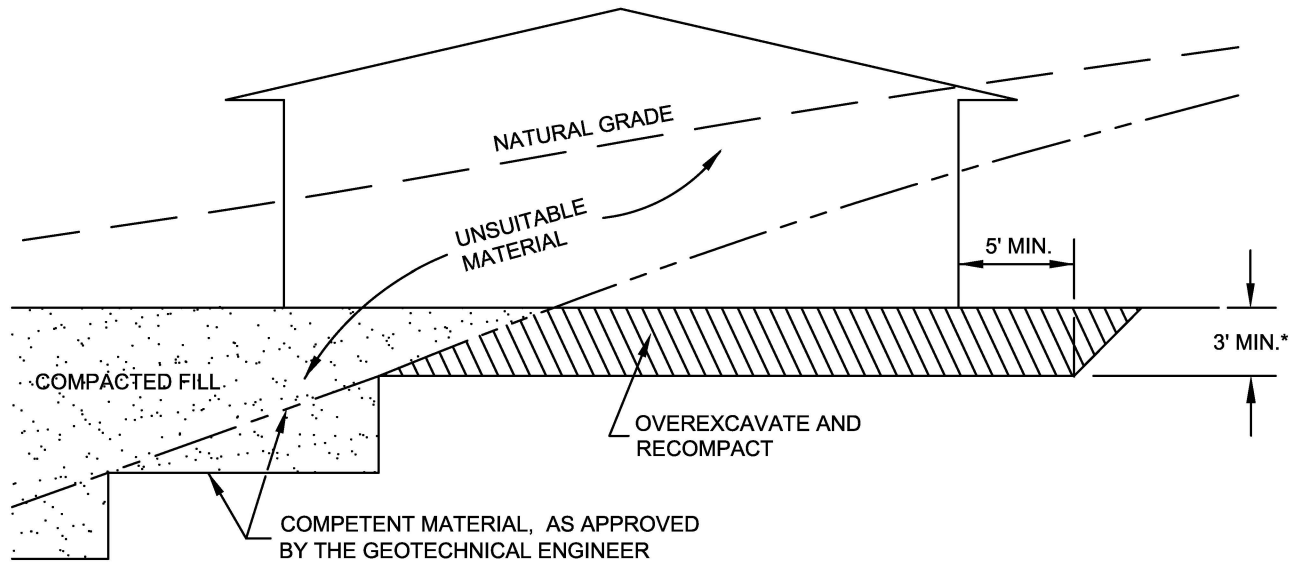
- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.
- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.
- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

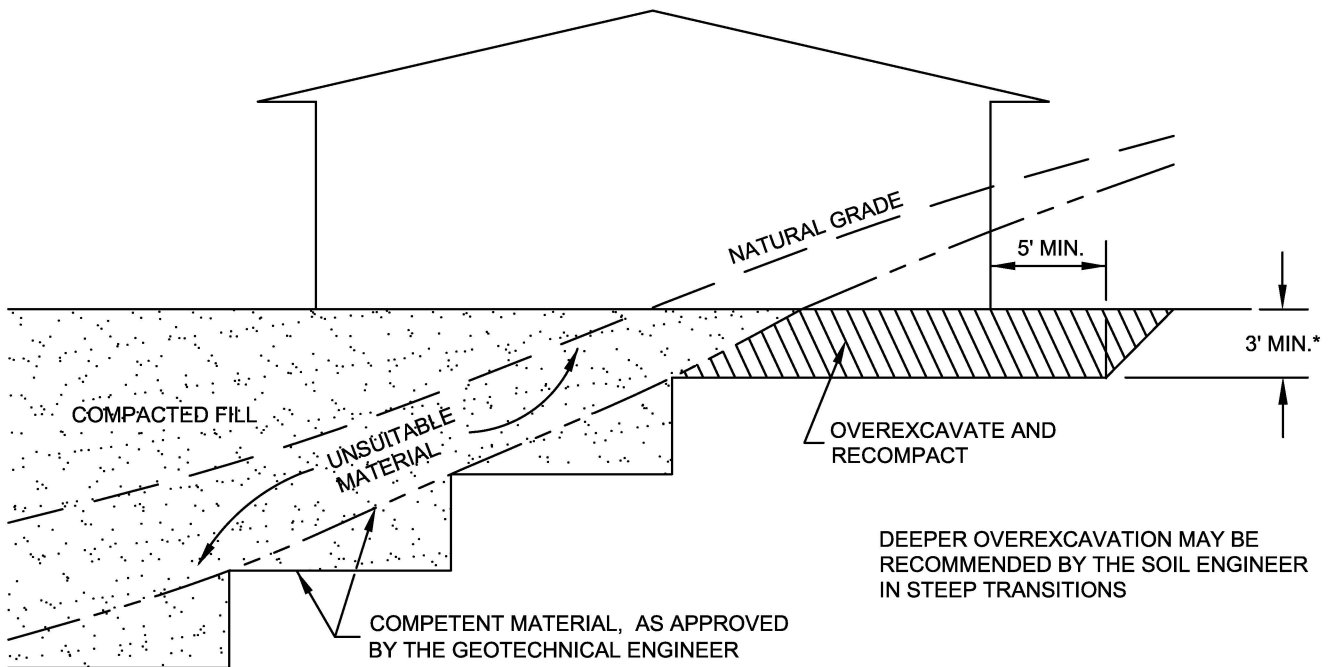
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.
- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean $\frac{3}{4}$ -inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT

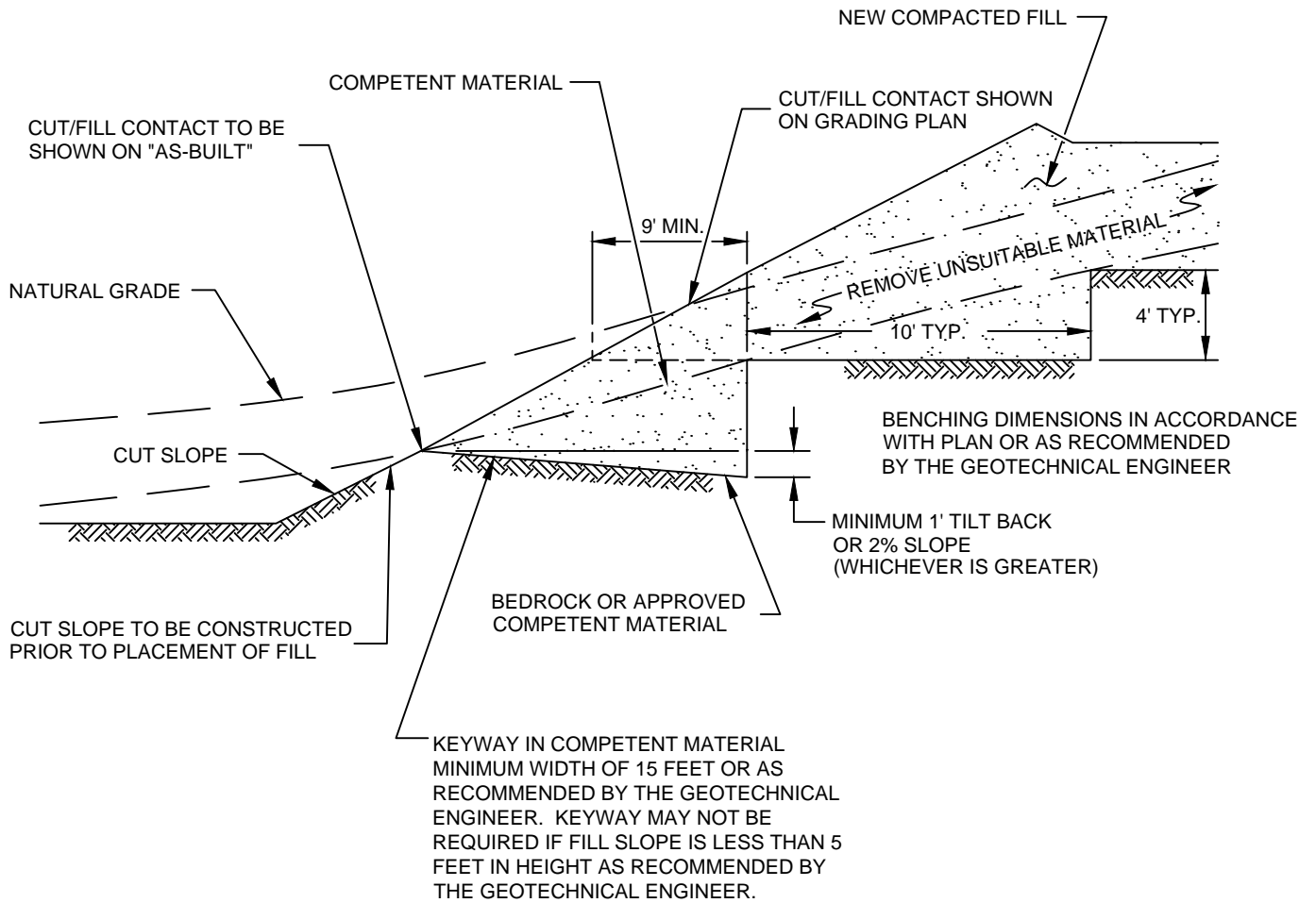


CUT/FILL LOT (TRANSITION)

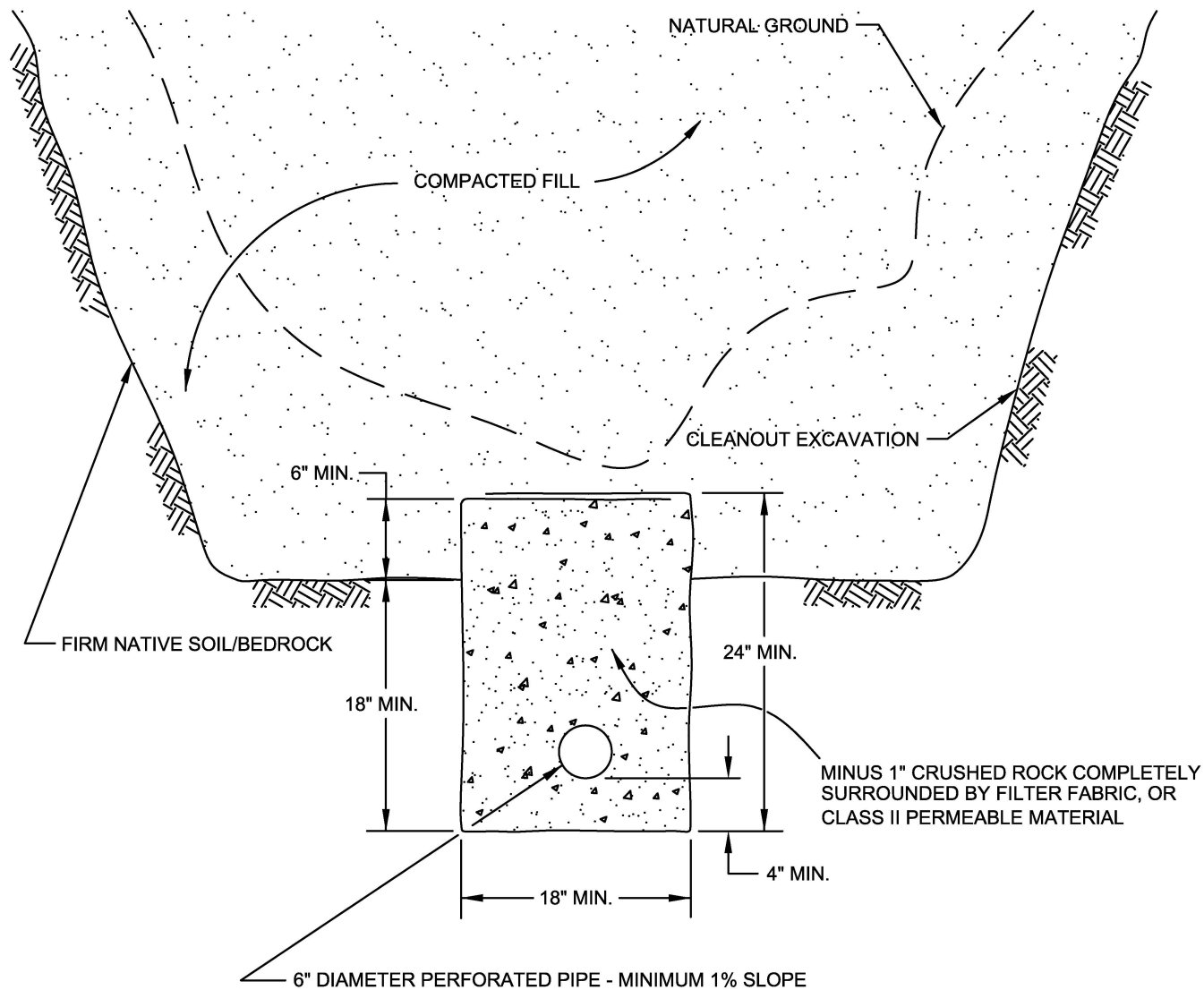


*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION. ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

TRANSITION LOT DETAIL	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-1	




FILL ABOVE CUT SLOPE DETAIL	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-2	



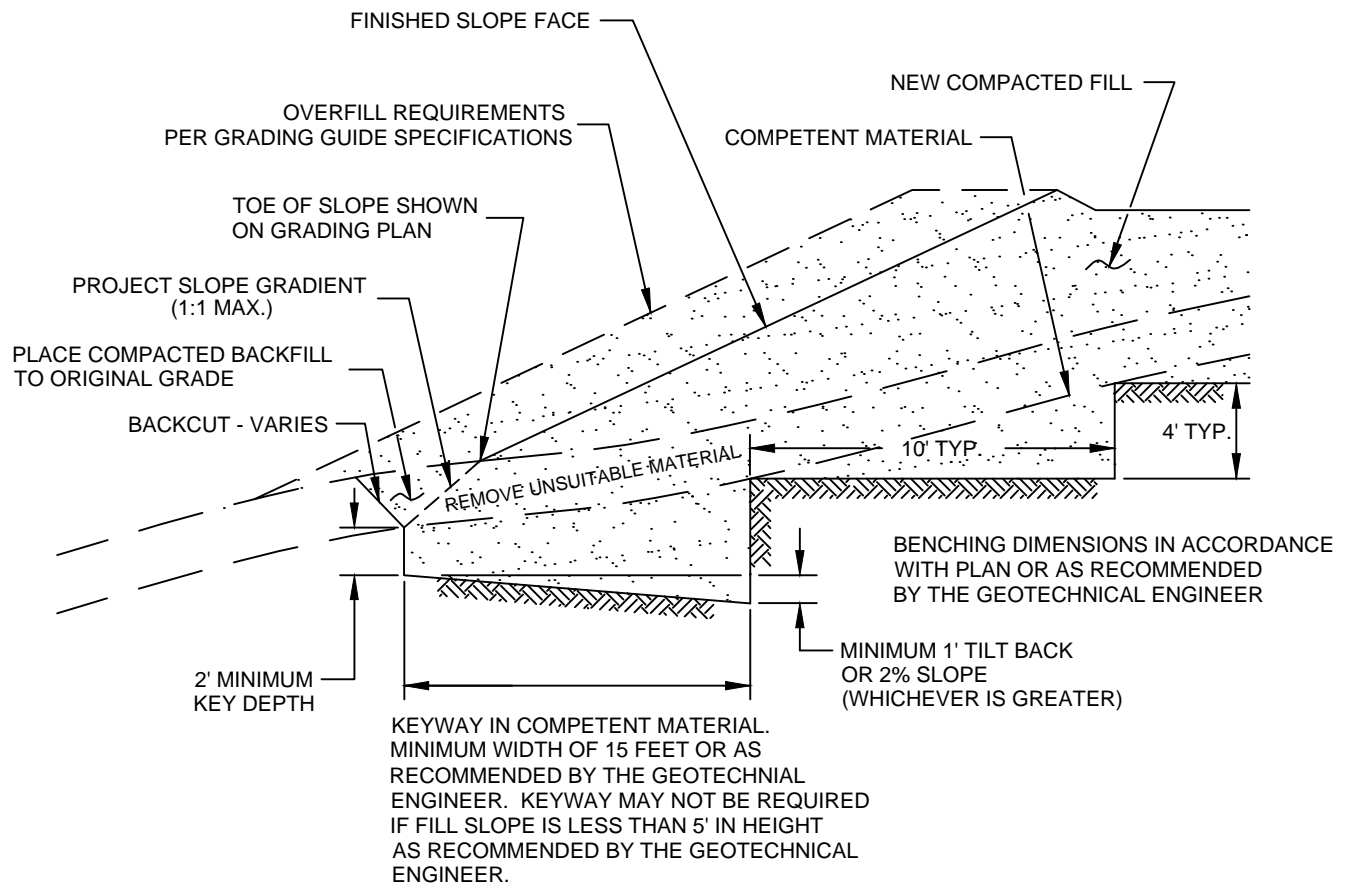
PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

**SCHEMATIC ONLY
NOT TO SCALE**


CANYON SUBDRAIN DETAIL	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	
DRAWN: JAS CHKD: GKM	
PLATE D-3	

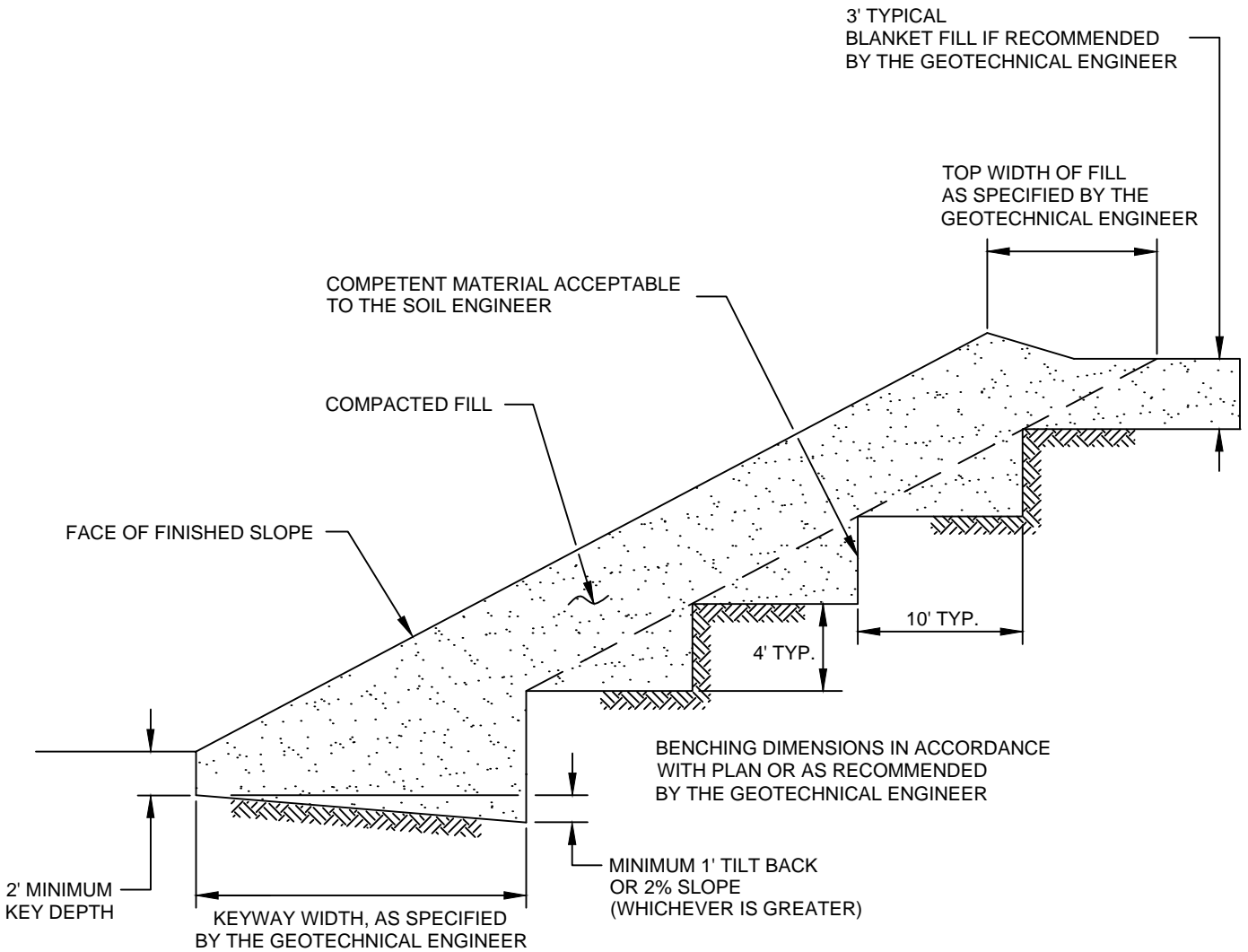



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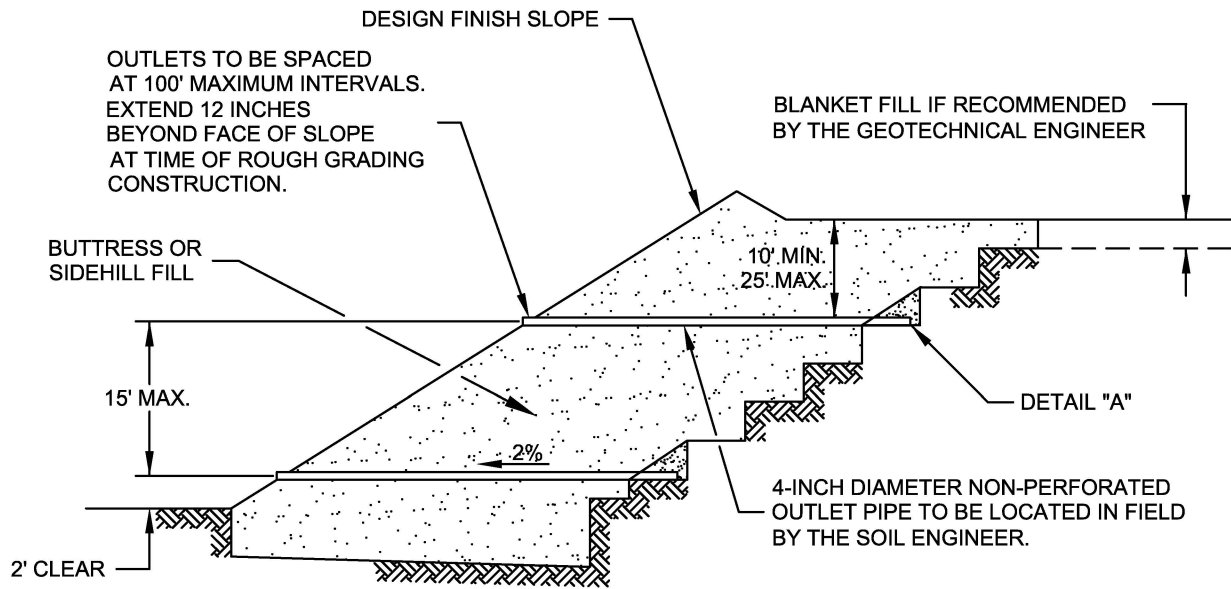


NOTE:
 BENCHING SHALL BE REQUIRED WHEN NATURAL SLOPES ARE EQUAL TO OR STEEPER THAN 5:1 OR WHEN RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	
DRAWN: JAS CHKD: GKM	
	
SOUTHERN CALIFORNIA GEOTECHNICAL	
PLATE D-4	



STABILIZATION FILL DETAIL	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-5	



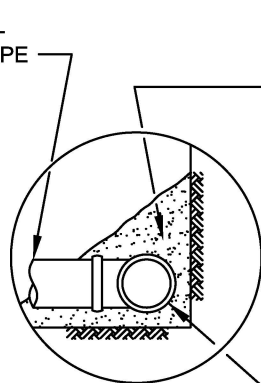
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8
SAND EQUIVALENT = MINIMUM OF 50	

OUTLET PIPE TO BE CONNECTED TO SUBDRAIN PIPE WITH TEE OR ELBOW



DETAIL "A"

FILTER MATERIAL - MINIMUM OF FIVE CUBIC FEET PER FOOT OF PIPE. SEE ABOVE FOR FILTER MATERIAL SPECIFICATION.


ALTERNATIVE: IN LIEU OF FILTER MATERIAL FIVE CUBIC FEET OF GRAVEL PER FOOT OF PIPE MAY BE ENCASED IN FILTER FABRIC. SEE ABOVE FOR GRAVEL SPECIFICATION.

FILTER FABRIC SHALL BE MIRAFI 140 OR EQUIVALENT. FILTER FABRIC SHALL BE LAPPED A MINIMUM OF 12 INCHES ON ALL JOINTS.

MINIMUM 4-INCH DIAMETER PVC SCH 40 OR ABS CLASS SDR 35 WITH A CRUSHING STRENGTH OF AT LEAST 1,000 POUNDS, WITH A MINIMUM OF 8 UNIFORMLY SPACED PERFORATIONS PER FOOT OF PIPE INSTALLED WITH PERFORATIONS ON BOTTOM OF PIPE. PROVIDE CAP AT UPSTREAM END OF PIPE. SLOPE AT 2 PERCENT TO OUTLET PIPE.

NOTES:

- TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-6	

MINIMUM ONE FOOT THICK LAYER OF LOW PERMEABILITY SOIL IF NOT COVERED WITH AN IMPERMEABLE SURFACE

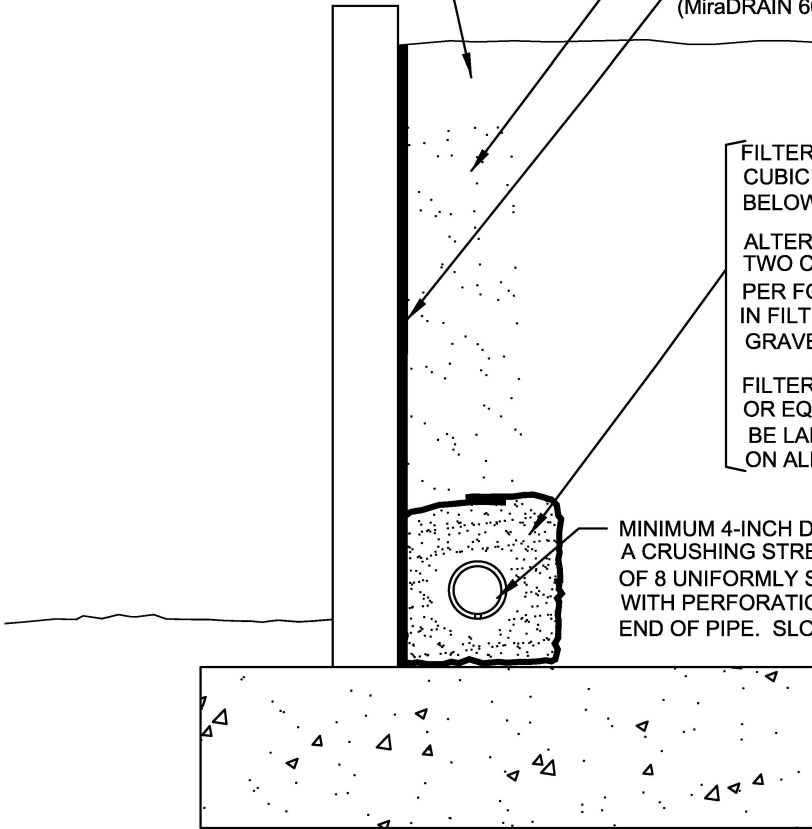
MINIMUM ONE FOOT WIDE LAYER OF FREE DRAINING MATERIAL (LESS THAN 5% PASSING THE #200 SIEVE) OR PROPERLY INSTALLED PREFABRICATED DRAINAGE COMPOSITE (MiraDRAIN 6000 OR APPROVED EQUIVALENT).

FILTER MATERIAL - MINIMUM OF TWO CUBIC FEET PER FOOT OF PIPE. SEE BELOW FOR FILTER MATERIAL SPECIFICATION.

ALTERNATIVE: IN LIEU OF FILTER MATERIAL TWO CUBIC FEET OF GRAVEL PER FOOT OF PIPE MAY BE ENCASED IN FILTER FABRIC. SEE BELOW FOR GRAVEL SPECIFICATION.

FILTER FABRIC SHALL BE MIRAFAI 140 OR EQUIVALENT. FILTER FABRIC SHALL BE LAPPED A MINIMUM OF 6 INCHES ON ALL JOINTS.

MINIMUM 4-INCH DIAMETER PVC SCH 40 OR ABS CLASS SDR 35 WITH A CRUSHING STRENGTH OF AT LEAST 1,000 POUNDS, WITH A MINIMUM OF 8 UNIFORMLY SPACED PERFORATIONS PER FOOT OF PIPE INSTALLED WITH PERFORATIONS ON BOTTOM OF PIPE. PROVIDE CAP AT UPSTREAM END OF PIPE. SLOPE AT 2 PERCENT TO OUTLET PIPE.




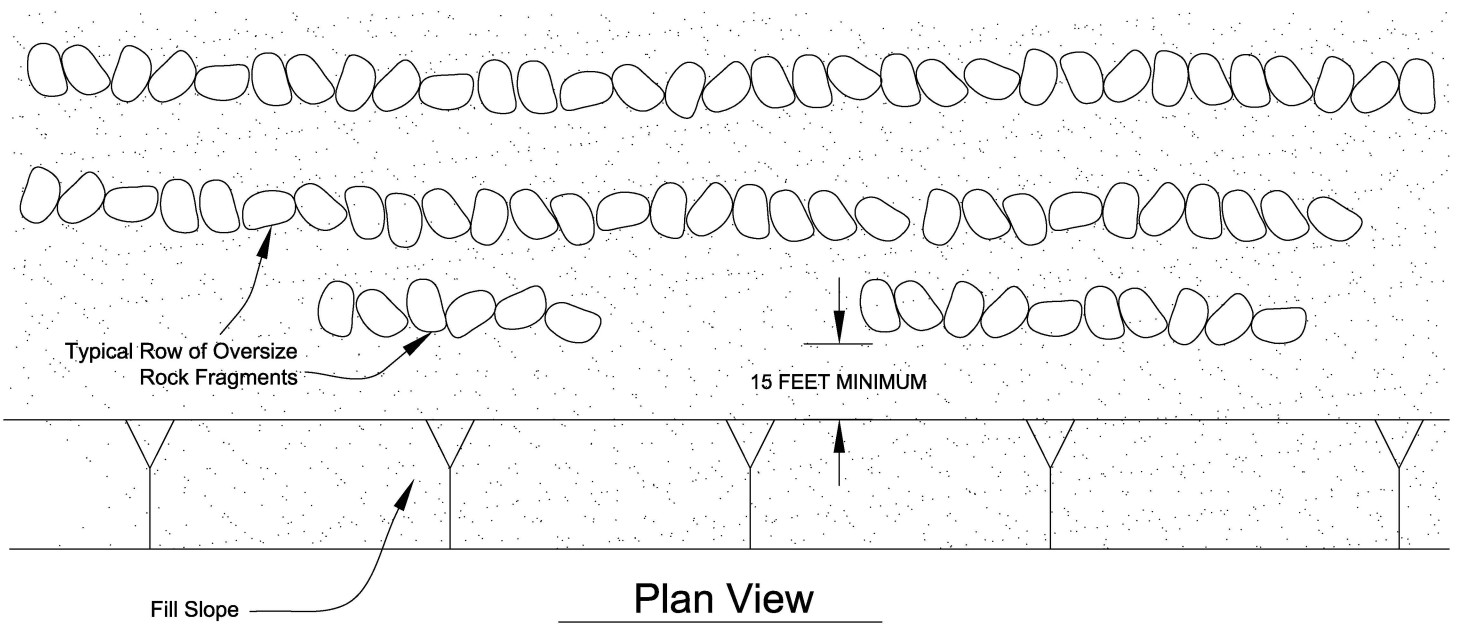
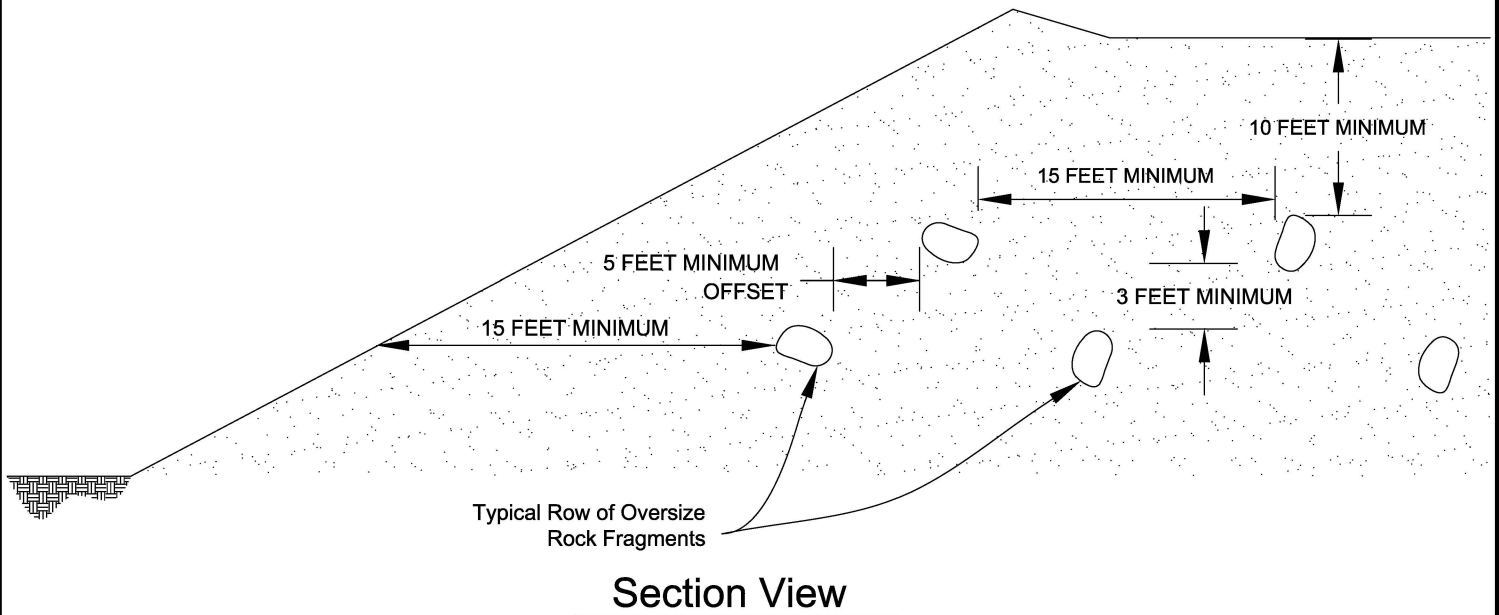
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8
SAND EQUIVALENT = MINIMUM OF 50	

RETAINING WALL BACKDRAINS	
GRADING GUIDE SPECIFICATIONS	
NOT TO SCALE	 <p>SOUTHERN CALIFORNIA GEOTECHNICAL</p>
DRAWN: JAS CHKD: GKM	
PLATE D-7	



**PLACEMENT OF OVERSIZED MATERIAL
GRADING GUIDE SPECIFICATIONS**

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

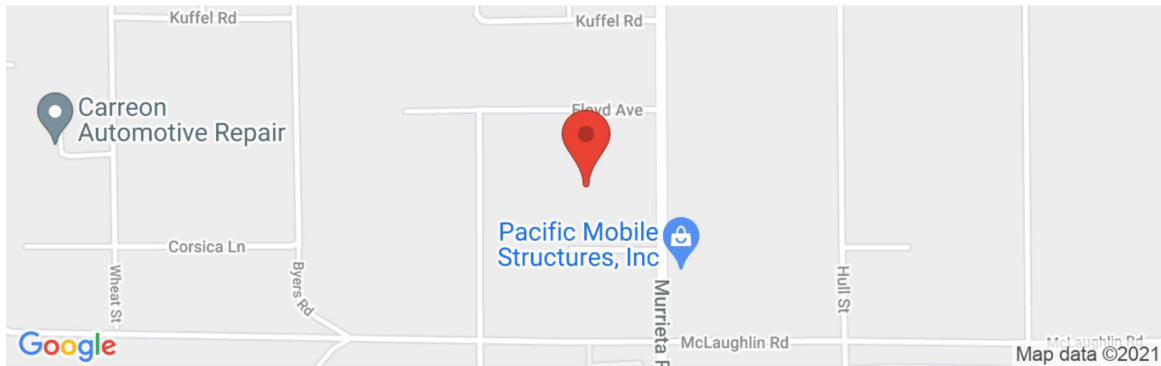


**SOUTHERN
CALIFORNIA
GEOTECHNICAL**

APPENDIX E



Latitude, Longitude: 33.73881801, -117.20810156




Date	10/27/2021, 2:28:15 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.418	MCE_R ground motion. (for 0.2 second period)
S_1	0.523	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.418	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	0.945	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.5	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.55	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
$SsRT$	1.418	Probabilistic risk-targeted ground motion. (0.2 second)
$SsUH$	1.514	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
$S1RT$	0.523	Probabilistic risk-targeted ground motion. (1.0 second)
$S1UH$	0.569	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
$S1D$	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.937	Mapped value of the risk coefficient at short periods
C_{R1}	0.92	Mapped value of the risk coefficient at a period of 1 s

SOURCE: SEAOC/OSHPD Seismic Design Maps Tool
<https://seismicmaps.org/>



SEISMIC DESIGN PARAMETERS - 2019 CBC	
PROPOSED INDUSTRIAL BUILDING	
MENIFEE, CALIFORNIA	
DRAWN: MD CHKD: RGT SCG PROJECT 21G237-1 PLATE E-1	 SOUTHERN CALIFORNIA GEOTECHNICAL

PALEONTOLOGICAL ASSESSMENT FOR THE IPT MENIFEE WAREHOUSE PROJECT

**TR 31856
MENIFEE, RIVERSIDE COUNTY, CALIFORNIA**

APNs 330-210-010, -011, -013, and -065

Prepared for:

**EPD Solutions
2355 Main Street, Suite 100
Irvine, California 92614**

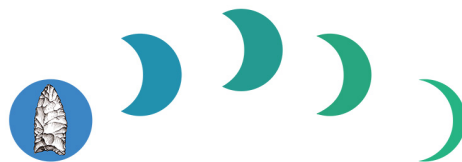
Submitted to:

**City of Menifee
29844 Haun Road
Menifee, California 92586**

Prepared by:

**Todd A. Wirths, M.S., P.G., Senior Paleontologist,
California Professional Geologist No. 7588
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14010 Poway Road, Suite A
Poway, California 92064**

January 26, 2023



BFSA Environmental Services
A Perennial Company

Paleontological Database Information

Author: Todd A. Wirths, M.S., Senior Paleontologist, California Professional Geologist No. 7588

Consulting Firm: BFSA Environmental Services, a Perennial Company
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Report Date: January 26, 2023

Report Title: Paleontological Resource Impact Mitigation Program for the IPT Menifee Warehouse Project, TR 31856, Menifee, Riverside County

Prepared on Behalf of: EPD Solutions
2355 Main Street, Suite 100
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Prepared for: City of Menifee
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Menifee, California 92586

Prepared by: BFSA Environmental Services, a Perennial Company
14010 Poway Road, Suite A
Poway, California 92064

USGS Quadrangle: Romoland, California (7.5 minute)

Assessor's Parcel Numbers: 330-210-010, -011, -013, and -065

Study Area: 28.27 acres

Key Words: High paleontological resource sensitivity; City of Menifee; Quaternary very old alluvial fan deposits; full-time monitoring.

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I. INTRODUCTION AND LOCATION

A paleontological resource assessment has been completed for the IPT Menifee Warehouse (Tract Map [TR] No. 31856) Project, located west of Murrieta Road, east of Geary Street, south of Floyd Avenue, and north of McLaughlin Road in the city of Menifee, Riverside County, California (Figures 1 and 2). The IPT Menifee Warehouse Project consists of the development of 29.69 acres (Assessor's Parcel Numbers [APNs] 330-210-010, -011, -013, -065) situated within Section 17 of the USGS 7.5-minute *Romoland, California* topographic quadrangle (Township 5 South, Range 3 West) (see Figure 2). The property is generally flat, with elevations ranging between 1,420 and 1,440 feet above mean sea level, and currently includes agricultural land. The project proposes the construction of an approximately 596,960-square-foot industrial building with a 6,720-square-foot mezzanine, associated parking, landscaping, and utility improvements.

As the lead agency, the City of Menifee has required the preparation of a paleontological assessment to evaluate the project's potential to yield paleontological resources. The paleontological assessment of the project included a review of paleontological literature and fossil locality records in the area; a review of the underlying geology; and recommendations to mitigate impacts to potential paleontological resources, if necessary.

II. REGULATORY SETTING

The California Environmental Quality Act (CEQA), which is patterned after the National Environmental Policy Act, is the overriding environmental policy that sets the requirement for protecting California's paleontological resources. CEQA mandates that governing permitting agencies (lead agencies) set their own guidelines for the protection of nonrenewable paleontological resources under their jurisdiction.

State of California

Under "Guidelines for Implementation of the California Environmental Quality Act," as amended in December 2018 (California Code of Regulations [CCR] Title 14, Division 6, Chapter 3, Sections 15000 et seq.), procedures define the types of activities, persons, and public agencies required to comply with CEQA. Section 15060 of State CEQA Guidelines provides a process by which a lead agency may review a project's potential impact to the environment, whether the impacts are significant, and provide recommendations, if necessary.

In CEQA's Environmental Checklist Form, one of the questions to answer is, "Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?" (Appendix G, Section VII, Part f). This is to ensure compliance with California Public Resources Code Section 5097.5, the law that protects nonrenewable resources including fossils, which is stated below:

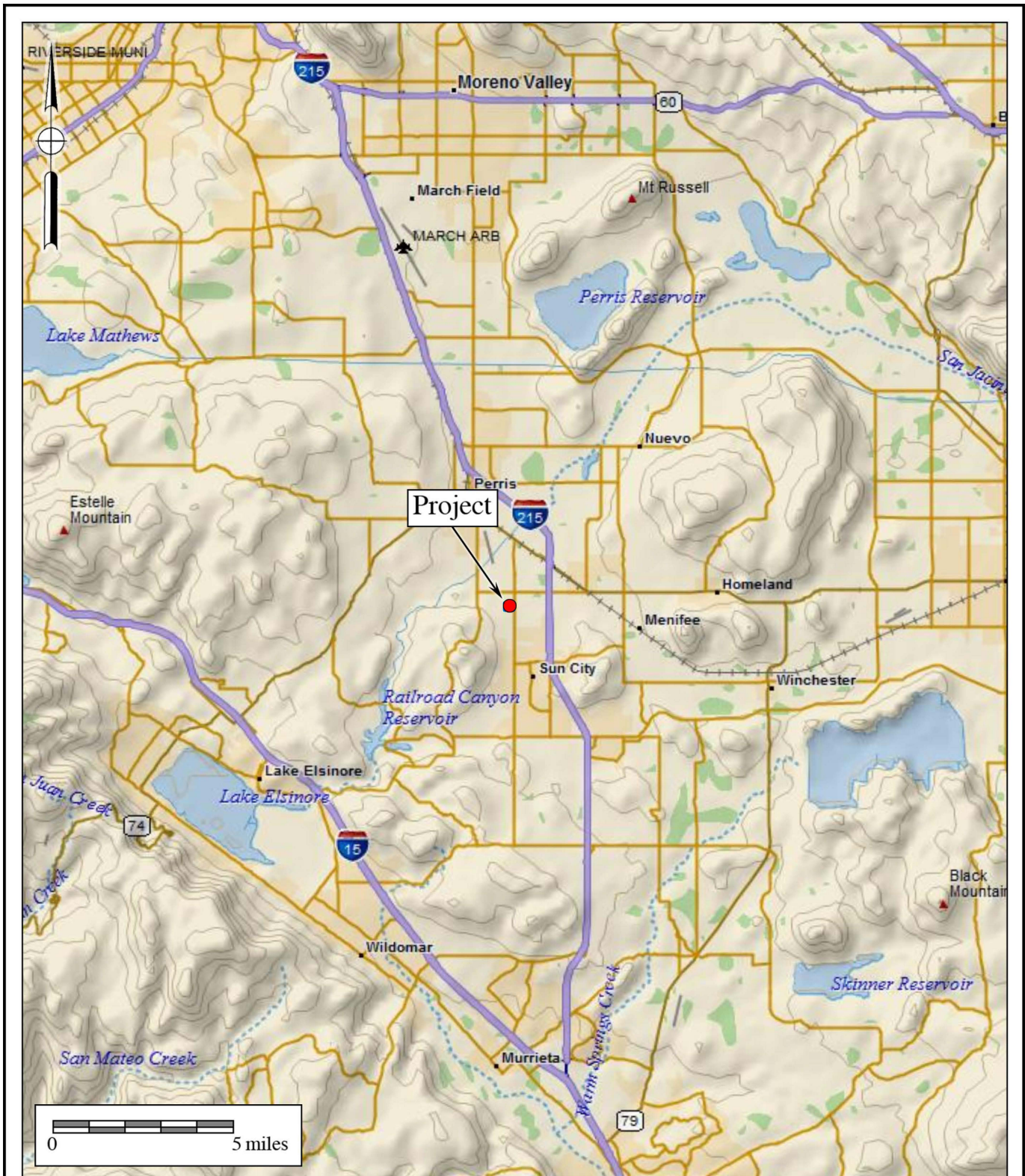


Figure 1
General Location Map

The IPT Menifee Warehouse Project

DeLorme (1:250,000)



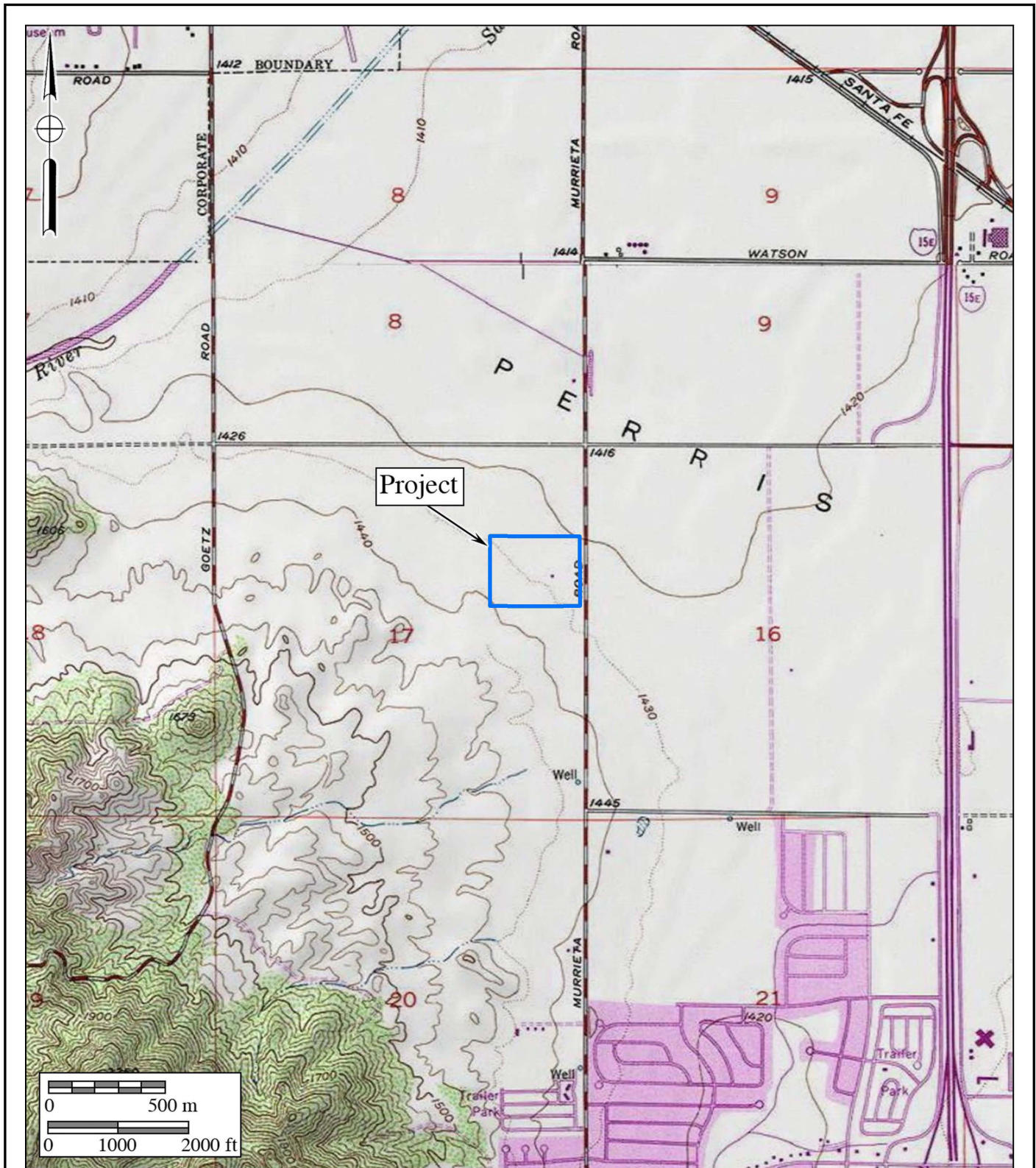


Figure 2
Project Location Map

The IPT Menifee Warehouse Project

USGS Romoland and Perris Quadrangles (7.5-minute series)



- a) A person shall not knowingly and willfully excavate upon, or remove, destroy, injure or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, rock art, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands.
- b) As used in this section, “public lands” means lands owned by, or under the jurisdiction of, the state, or any city, county, district, authority, or public corporation, or any agency thereof.
- c) A violation of this section is a misdemeanor, punishable by a fine not exceeding ten thousand dollars (\$10,000), or by imprisonment in a county jail not to exceed one year, or by both that fine and imprisonment.

City of Menifee

The City of Menifee has allocated guidelines addressing paleontological resources in the Open Space and Conservation Element (Exhibit OSC-4) of the City’s General Plan (City of Menifee 2013). Exhibit OSC-4 identifies the level of paleontological resource sensitivity of the mapped geologic formations within the city limits and their potential to yield nonrenewable paleontological resources (fossils). However, the exhibit does not provide any specific guidance or other definitions, such as monitoring depth thresholds.

III. GEOLOGY

Regionally, the property lies within the central part of the Perris Block, a structural block bounded on the west by the Elsinore fault zone and on the east by the San Jacinto fault zone. The hills surrounding the region consist of eroded masses of exhumed Cretaceous and older crystalline and metamorphic rocks separated by flat valleys filled with geologically young sediments. The property is located on middle to early Pleistocene (approximately 0.5 to 1.8 million years old) very old alluvial fan sediments, consisting of well-dissected, well-indurated, reddish-brown alluvial fan deposits of sand and gravel (areas colored brown and labeled “Qvof_{ag}” on Figures 3A and 3B, after Morton 2003). According to Woodford et al. (1971), the thickness of the alluvial deposits overlying the granitic bedrock basement beneath the property is thin, roughly 30 feet.

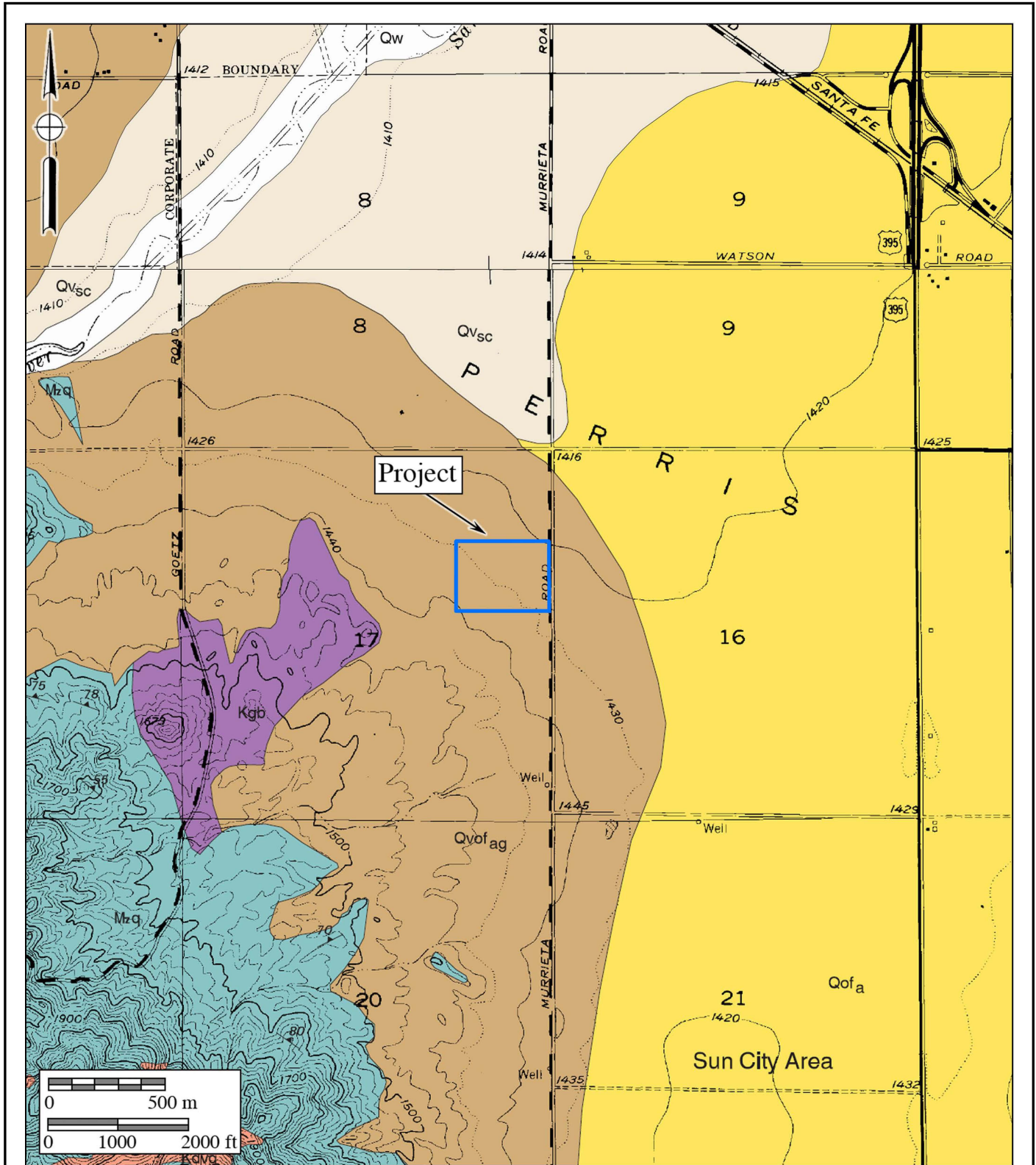


Figure 3A
Geologic Map

The IPT Menifee Warehouse Project
Geology after Morton (2003a and 2003b)



DESCRIPTION OF MAP UNITS

Holocene

Qw **Very young wash deposits (late Holocene)**—Unconsolidated bouldery to sandy alluvium of active and recently active washes

Qv **Very young alluvial valley deposits (late Holocene)**—Active and recently active fluvial deposits along valley floors. Consists of unconsolidated sandy, silty, or clay-bearing alluvium

Late to middle Pleistocene

Qof **Old alluvial fan deposits (late to middle Pleistocene)**—Reddish brown, gravel and sand alluvial fan deposits; indurated, commonly slightly dissected. In places includes thin alluvial fan deposits of Holocene age

Middle to early Pleistocene

Qvof **Very old alluvial fan deposits (middle to early Pleistocene)**—Mostly well-dissected, well-indurated, reddish-brown alluvial fan deposits. Grain size chiefly sand and gravel

Cretaceous crystalline rocks

Kgb **Gabbro (Cretaceous)**—Mainly hornblende gabbro. Includes Virginia quartz-norite and gabbro of Dudley (1935), and San Marcos gabbro of Larsen (1948). Typically brown-weathering, medium-to very coarse-grained hornblende gabbro; very large poikilitic hornblende crystals are common, and very locally gabbro is pegmatitic. Much is quite heterogeneous in composition and texture. Includes noritic and dioritic composition rocks

Mesozoic metamorphic rocks

Mzq **Quartz-rich rocks (Mesozoic)**—Quartzite and quartz-rich metasandstone

Ancient soil zones (paleosols) developed within Pleistocene sedimentary deposits such as alluvial fans are not uncommon in the Menifee and Perris areas, and are characterized in these areas by a reddish coloration at a certain interval(s) below the surface. Stewart et al. (2012) and Raum et al. (2014) report on occurrences of paleosols in Riverside County yielding Pleistocene vertebrate fossils. Instances of fossiliferous paleosols have also been recently documented in Kern County (Stewart and Hakel 2019) and San Bernardino County (Stewart and Hakel 2016, 2017). Fossils yielded by Pleistocene paleosols are covered in Section V of this report.

IV. PALEONTOLOGICAL RESOURCES

Definition

Paleontological resources are the remains of prehistoric life that have been preserved in geologic strata. These remains are called fossils and include bones, shells, teeth, and plant remains (including their impressions, casts, and molds) in the sedimentary matrix, as well as trace fossils such as footprints and burrows. Fossils are considered older than 5,000 years of age (Society of Vertebrate Paleontology 2010) but may include younger remains (subfossils) when viewed in the context of local extinction of the organism or habitat, for example. Fossils are considered a nonrenewable resource under state and local guidelines (Section II of this report).

Fossil Locality Record Search

A paleontological locality records search was conducted for the IPT Menifee Warehouse Project by the Western Science Center (WSC; Radford 2021 [see Appendix B]). The records search found that the nearest fossil locality held by the WSC is located at the Diamond Valley Lake Reservoir Project approximately five to seven miles southeast of the proposed project, which consists of hundreds of specimens of Pleistocene mammal bones (Radford 2021). Construction associated with the Diamond Valley Lake Reservoir yielded vast numbers of terrestrial Ice Age vertebrate fossils (*e.g.*, Anderson et al. 2002; Springer et al. 1999, 2009) that are now housed in the WSC in Hemet. These fossils were derived from the same types of alluvial fan deposits as mapped within the current property.

An older paleontological literature review and collections and records search was conducted for the City of Menifee's General Plan in 2010 (Scott 2010 [see Appendix B]). The report identified 22 fossil localities in the northeast part of Menifee and one additional locality on the east side of the city. The fossils include the remains of an extinct camel, small mammals such as rabbits and rodents, and lizards. These localities are located approximately three miles east of the IPT Menifee Warehouse Project. Based on numerous previously recorded vertebrate fossil localities from Pleistocene alluvial and alluvial fan deposits across western Riverside County (*e.g.*, Jefferson 1991), the San Bernardino County Museum and the WSC both regard Pleistocene old alluvial fan sediments as having a high potential to contain significant paleontological resources, and therefore, would recommend that a program be implemented to "mitigate impacts to [potential] nonrenewable paleontological resources" (Scott 2010).

Field Survey

Under the direction of Principal Investigator Todd A. Wirths, a Brian F. Smith and Associates, Inc. (BFS) technician conducted a pedestrian survey of the IPT Menifee Warehouse Project on May 17, 2021. The field methodology employed for the project included walking evenly spaced survey transects set approximately 10 meters apart while visually inspecting the ground surface. Survey conditions were generally fair with poor ground visibility throughout the property due to dense non-native grasses and weeds. The entire property has been disturbed in the past by either cultivation or residential use. Rodent spoil piles and patches of turned soil were closely inspected for evidence of small vertebrate fossils. No evidence of paleontological resources was observed at the property.

V. PALEONTOLOGICAL SENSITIVITY

Overview

The degree of paleontological sensitivity of any particular area is based on a number of factors, including the documented presence of fossiliferous resources on a site or in nearby areas, the presence of documented fossils within a particular geologic formation or lithostratigraphic unit, and whether or not the original depositional environment of the sediments is one that might have been conducive to the accumulation of organic remains that might have become fossilized over time. Holocene alluvium is generally considered to be geologically too young to contain significant nonrenewable paleontological resources (*i.e.*, fossils) and is thus typically assigned a low paleontological sensitivity. Pleistocene (over 11,700 years old) alluvial and alluvial fan deposits in western Riverside County and the Inland Empire, however, often yield important terrestrial vertebrate fossils, such as extinct mammoths, mastodons, giant ground sloths, extinct species of horse, bison, camel, saber-toothed cats, and others (Jefferson 1991). These Pleistocene sediments are thus accorded a high paleontological resource sensitivity.

Professional Standards

The Society of Vertebrate Paleontology (2010) has drafted guidelines that include four categories of paleontological sensitivity for geologic units (formations) that might be impacted by a proposed project, as listed below:

- High Potential: Rock units from which vertebrate or significant invertebrate, plant, or trace fossils have been recovered.
- Undetermined Potential: Rock units for which little information is available concerning their paleontological content, geologic age, and depositional environment, and that further study is needed to determine the potential of the rock unit.
- Low Potential: Rock units that are poorly represented by fossil specimens in institutional collections or based on a general scientific consensus that only preserve fossils in rare circumstances.

- *No Potential:* Rock units that have no potential to contain significant paleontological resources, such as high-grade metamorphic rocks and plutonic igneous rocks.

Using these criteria, based on the age of the sedimentary geologic formation at the project and the fossil record of similar deposits in the region, the very old alluvial deposits project may be considered to have a high potential to yield significant paleontological resources.

City of Menifee Sensitivity

Exhibit OSC-4 of the Open Space and Conservation Element of the City of Menifee General Plan (City of Menifee 2013) assigns a “High Paleologic [Paleontologic] Sensitivity” to the project area, where very old alluvial fan deposits are mapped at the surface (Figure 4). However, no specific guidance or monitoring depth thresholds are provided.

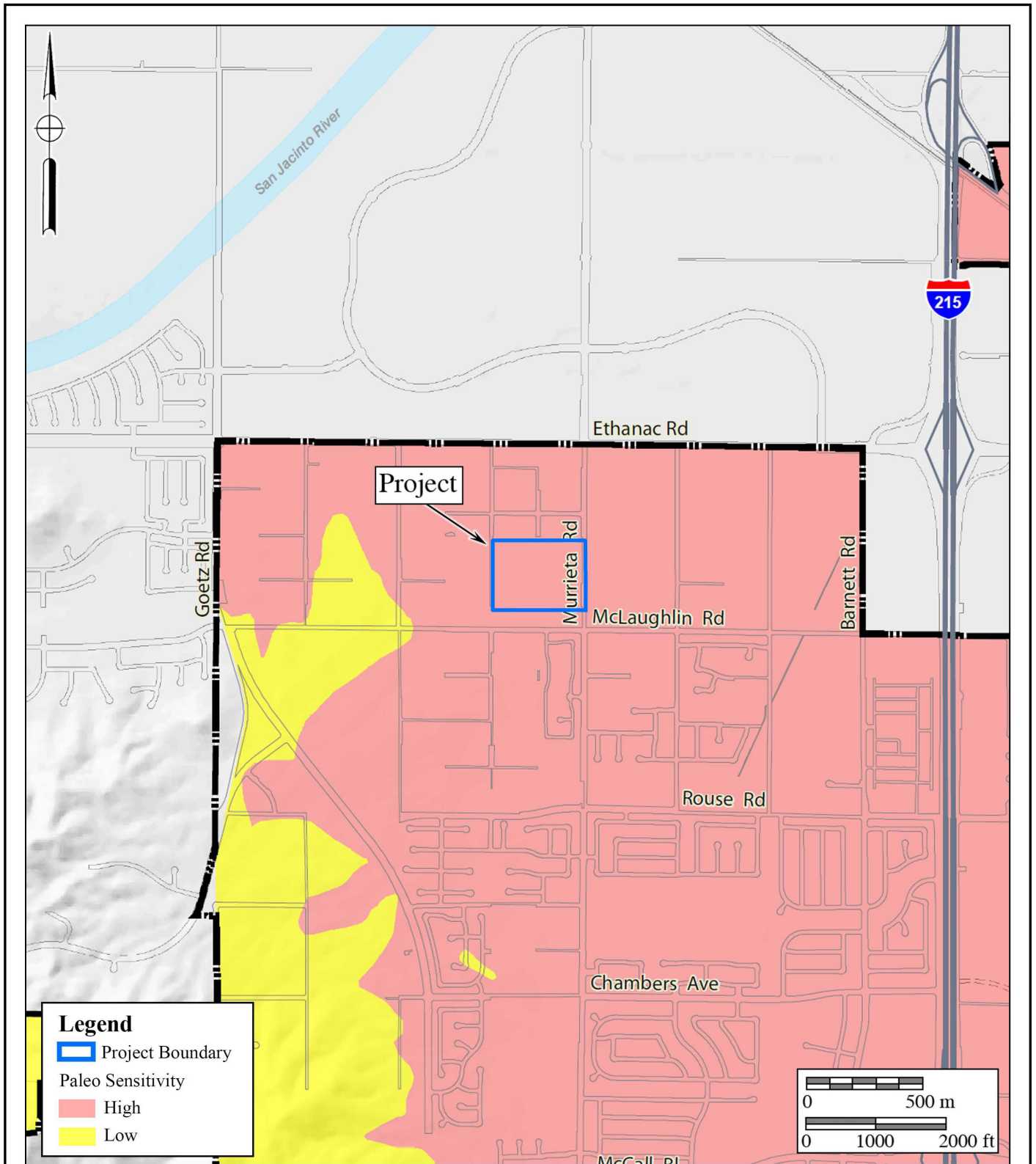


Figure 4

Paleontological Sensitivity Map

The IPT Menifee Warehouse Project

After City of Menifee General Plan (2013)



VI. CONCLUSIONS AND RECOMMENDATIONS

Research has confirmed the existence of the potentially fossiliferous Pleistocene very old alluvial fan deposits in the eastern portion of the property. The occurrence of terrestrial vertebrate fossils from Pleistocene alluvial fan deposits in western Riverside County is well documented. The “High” paleontological sensitivity rating assigned to these formations by the City of Menifee for yielding paleontological resources supports the recommendation that paleontological monitoring be implemented during mass grading and excavation activities in these deposits to mitigate any adverse impacts (loss or destruction) to potential nonrenewable paleontological resources. Full-time monitoring of undisturbed very old alluvial fan deposits at the property is warranted starting at five feet below the surface. A Paleontological Resource Impact Mitigation Program (PRIMP) is suggested below that should be approved and implemented before the issuance of the grading permit.

Suggested PRIMP

The following guidelines, outlined below, are based on the findings stated above, which are consistent with the provisions of CEQA, the City of Menifee, and the guidelines of the Society of Vertebrate Paleontology (2010) for any mass grading and excavation-related activities, including utility trenching, during construction within the property. This suggested PRIMP, when implemented, would reduce potential impacts to paleontological resources to a level below significant:

1. Monitoring of mass grading and excavation activities in areas identified as likely to contain paleontological resources shall be performed by a city-qualified paleontologist or paleontological monitor supervised by a city-qualified paleontologist. Starting at five feet below the surface, monitoring will be conducted full-time in areas of grading or excavation in undisturbed Pleistocene very old alluvial fan deposits.
2. Paleontological monitors will be equipped to salvage fossils as they are unearthed to avoid construction delays. The monitor must be empowered to temporarily halt or divert equipment to allow removal of abundant or large specimens in a timely manner. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or, if present, are determined upon exposure and examination by qualified paleontological personnel to have low potential to contain fossil resources. The monitor shall notify the project paleontologist, who will then notify the concerned parties of the discovery.
3. Paleontological salvage during trenching and boring activities is typically from the generated spoils and does not delay the trenching or drilling activities. Fossils are collected and placed in cardboard flats or plastic buckets and identified by field

- number, collector, and date collected. Notes are taken on the map location and stratigraphy of the site, which is photographed before it is vacated and the fossils are removed to a safe place. On mass grading projects, discovered fossil sites are protected by flagging to prevent them from being overrun by earthmovers (scrapers) before salvage begins. Fossils are collected in a similar manner, with notes and photographs being taken before removing the fossils. If the site involves remains from a large terrestrial vertebrate, such as large bone(s) or a mammoth tusk, that is/are too large to be easily removed by a single monitor, a fossil recovery crew shall excavate around the find, encase the find within a plaster and burlap jacket, and remove it after the plaster is set. For large fossils, use of the contractor's construction equipment may be solicited to help remove the jacket to a safe location.
4. Particularly small invertebrate fossils typically represent multiple specimens of a limited number of organisms, and a scientifically suitable sample can be obtained from several five-gallon buckets of fossiliferous sediment. If it is possible to dry screen the sediment in the field, a concentrated sample may consist of one or two buckets of material. For vertebrate fossils, the test is usually the observed presence of small pieces of bones within the sediments. If present, as multiple five-gallon buckets of sediment can be collected and returned to a separate facility to wet-screen the sediment.
 5. In accordance with the "Microfossil Salvage" section of the SVP guidelines (2010:7), bulk sampling and screening of fine-grained sedimentary deposits (including carbonate-rich paleosols) must be performed if the deposits are identified to possess indications of producing fossil "microvertebrates" to test the feasibility of the deposit to yield fossil bones and teeth.
 6. In the laboratory, individual fossils are cleaned of extraneous matrix, any breaks are repaired, and the specimen, if needed, is stabilized by soaking in an archivally approved acrylic hardener (*e.g.*, a solution of acetone and Paraloid B-72).
 7. Recovered specimens are prepared to a point of identification and permanent preservation (not display), including screen-washing sediments to recover small invertebrates and vertebrates. Preparation of individual vertebrate fossils is often more time-consuming than for accumulations of invertebrate fossils.
 8. Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage (*e.g.*, the WSC) shall be conducted. The paleontological program should include a written repository agreement prior to the initiation of mitigation activities. Prior to curation, the lead agency (the City of Menifee) will be consulted on the repository/museum to receive the fossil material.
 9. A final report of findings and significance will be prepared, including lists of all fossils recovered and necessary maps and graphics to accurately record their original

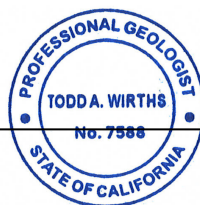
location(s). The report, when submitted to, and accepted by, the appropriate lead agency, will signify satisfactory completion of the project program to mitigate impacts to any potential nonrenewable paleontological resources (*i.e.*, fossils) that might have been lost or otherwise adversely affected without such a program in place.

VII. CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this paleontological report, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief, and have been compiled in accordance with CEQA criteria.



Todd A. Wirths
Senior Paleontologist
California Professional Geologist No. 7588



January 26, 2023

Date

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APPENDIX A

Qualifications of Key Personnel

Todd A. Wirths, MS, PG No. 7588

Senior Paleontologist

BFSA Environmental Services, A Perennial Company

14010 Poway Road • Suite A •

Phone: (858) 679-8218 • Fax: (858) 679-9896 • E-Mail: twirths@bfsa.perennialenv.com



Education

Master of Science, Geological Sciences, San Diego State University, California 1995

Bachelor of Arts, Earth Sciences, University of California, Santa Cruz 1992

Professional Certifications

California Professional Geologist #7588, 2003

Riverside County Approved Paleontologist

San Diego County Qualified Paleontologist

Orange County Certified Paleontologist

OSHA HAZWOPER 40-hour trained; current 8-hour annual refresher

Professional Memberships

Board member, San Diego Geological Society

San Diego Association of Geologists; past President (2012) and Vice President (2011)

South Coast Geological Society

Southern California Paleontological Society

Experience

Mr. Wirths has more than a dozen years of professional experience as a senior-level paleontologist throughout southern California. He is also a certified California Professional Geologist. At BFSA, Mr. Wirths conducts on-site paleontological monitoring, trains and supervises junior staff, and performs all research and reporting duties for locations throughout Los Angeles, Ventura, San Bernardino, Riverside, Orange, San Diego, and Imperial Counties. Mr. Wirths was formerly a senior project manager conducting environmental investigations and remediation projects for petroleum hydrocarbon-impacted sites across southern California.

Selected Recent Reports

2019 *Paleontological Assessment for the 10575 Foothill Boulevard Project, City of Rancho Cucamonga, San Bernardino County, California.* Prepared for T&B Planning, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.

2019 *Paleontological Assessment for the MorningStar Marguerite Project, Mission Viejo, Orange County, California.* Prepared for T&B Planning. Report on file at Brian F. Smith and Associates, Inc., Poway, California.

- 2019 *Paleontological Monitoring Report for the Nimitz Crossing Project, City of San Diego.* Prepared for Voltaire 24, LP. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2019 *Paleontological Resource Impact Mitigation Program (PRIMP) for the Jack Rabbit Trail Logistics Center Project, City of Beaumont, Riverside County, California.* Prepared for JRT BP 1, LLC. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 *Paleontological Monitoring Report for the Oceanside Beachfront Resort Project, Oceanside, San California.* Prepared for S.D. Malkin Properties. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 *Paleontological Resource Impact Mitigation Program for the Nakase Project, Lake Forest, Orange County, San California.* Prepared for Glenn Lukos Associates, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 *Paleontological Resource Impact Mitigation Program for the Sunset Crossroads Project, Banning, Riverside County.* Prepared for NP Banning Industrial, LLC. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 *Paleontological Assessment for the Ortega Plaza Project, Lake Elsinore, Riverside County.* Prepared for Empire Design Group. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 *Paleontological Resource Record Search Update for the Green River Ranch III Project, Green River Ranch Specific Plan SP00-001, City of Corona, California.* Prepared for Western Realco. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 *Paleontological Assessment for the Cypress/Slover Industrial Center Project, City of Fontana, San Bernardino County, California.* Prepared for T&B Planning, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 *Paleontological Monitoring Report for the Imperial Landfill Expansion Project (Phase VI, Segment C-2), Imperial County, California.* Prepared for Republic Services, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 *Paleontological Assessment for the Manitou Court Logistics Center Project, City of Jurupa Valley, Riverside County, California.* Prepared for Link Industrial. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 *Paleontological Resource Impact Mitigation Program for the Del Oro (Tract 36852) Project, Menifee, Riverside County.* Prepared for D.R. Horton. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 *Paleontological Assessment for the Alessandro Corporate Center Project (Planning Case PR-2020-000519), City of Riverside, Riverside County, California.* Prepared for OZI Alessandro, LLC. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 *Paleontological Monitoring Report for the Boardwalk Project, La Jolla, City of San Diego.* Prepared for Project Management Advisors, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.

APPENDIX B

Paleontological Records Searches



Brian F. Smith and Associates
Todd Wirths
14010 Poway Road, Suite A
Poway, CA 92064

June 1, 2021

Dear Mr. Wirths,

This letter presents the results of a record search conducted for the Ethanac and Murrieta Project in the city of Perris, Riverside County, California. The project site is located south of Ethanac Road and west of Murrieta Road in Section 17 of Township 5 South and Range 3 West on the *Romoland, CA* USGS 7.5 minute topographic quadrangle.

The geologic unit underlying the project area is mapped entirely as very old alluvial fan deposits dating from the middle to late Pleistocene epoch (Morton, Bovard, and Morton, 2003). Pleistocene alluvial units are considered to be of high paleontological sensitivity. The Western Science Center does not have localities within the project area or a one mile radius, but does have numerous localities within similarly mapped alluvial sediments throughout the region, including those associated with the Diamond Valley Lake Project located roughly 5 to 7 miles southeast. Pleistocene alluvial deposits in southern California are well documented and known to contain abundant fossil resources including those associated with Columbian mammoth (*Mammuthus columbi*), Pacific mastodon (*Mammut pacificus*), sabertooth cat (*Smilodon fatalis*), ancient horse (*Equus sp.*) and many other Pleistocene megafauna.

Any fossils recovered from the Ethanac and Murrieta Project area would be scientifically significant. Excavation activity associated with development of the area has the potential to impact the paleontologically sensitive Pleistocene alluvial units and it is the recommendation of the Western Science Center that a paleontological resource mitigation plan be put in place to monitor, salvage, and curate any recovered fossils associated with the current study area.

If you have any questions, or would like further information, please feel free to contact me at dradford@westerncentermuseum.org

Sincerely,

A handwritten signature in black ink, appearing to read 'Darla Radford', written in a cursive style.

Darla Radford
Collections Manager



PHASE I ENVIRONMENTAL SITE ASSESSMENT



West of Murrieta Road and East of Geary Street
Menifee, California 92585

Prepared For:
EPD Solutions
2 Park Plaza, Suite 1120
Irvine, CA 92614

May 28, 2021

Hillmann Project Number C3-8430

Your Property. Our Priority.
Making a better future for all the communities we touch.
www.HillmannConsulting.com



May 28, 2021

Ms. Brooke Blandino
EPD Solutions
2 Park Plaza, Suite 1120
Irvine, CA 92614

RE: Phase I Environmental Site Assessment
West of Murrieta Road and East of Geary Street
Menifee, California 92585
Hillmann Project No: C3-8430

Dear Ms. Blandino:

Hillmann Consulting LLC is pleased to provide the results of our Phase I Environmental Site Assessment of the above referenced property. This assessment was performed in general accordance with the scope and limitations of ASTM Practice E1527-13, which is the latest version of the E1527 standard published by the ASTM.

We appreciate the opportunity to provide environmental due diligence services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact our office at 714-634-9500.

Sincerely,

Hillmann Consulting, LLC

Shilpa Sunil
Environmental Project Manager

Ryan Terwilliger, CAC
Western Operations Manager

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List of Abbreviations/Acronyms

Hillmann may use the following abbreviations and acronyms for common terminology described in our report. Not all abbreviations or acronyms may be applicable to this report:

ACM	– Asbestos Containing Material
AOC	– Area of Concern
AST	– Aboveground Storage Tank
ASTM	– American Society for Testing Materials
BER	– Business Environmental Risk
CEA	– Classification Exception Area
CERCLA	– Comprehensive Environmental Response Compensation and Liability Act
CERCLIS	– Comprehensive Environmental Response Compensation and Liability Information System
CESQG	– Conditionally Exempt Small Quantity Generator
COC	– Chemicals of Concern
CORRACTS	– Corrective Action Sites
CREC	– Controlled Recognized Environmental Condition
DNPL	– Delisted National Priority List
DTSC	– Department of Toxic Substances Control
ENG	– Engineering
ERNS	– Emergency Response Notification System
FDEP	– Florida Department of Environmental Protection
FDNY	– Fire Department, City of New York
FDOT	– Florida Department of Transportation
FOI/FOIA/FOIL	– Freedom of Information / Freedom of Information Act / Freedom of Information Letter
HVAC	– Heating Ventilation & Air Conditioning
HREC	– Historic Recognized Environmental Condition
IAQ	– Indoor Air Quality
ISRA	– Industrial Site Recovery Act
LBP	– Lead-Based Paint
LQG	– Large Quantity Generator
LTANK	– Leaking Storage Tank
LUST	– Leaking Underground Storage Tank
MassDEP	– Massachusetts Department of Environmental Protection
SDS/MSDS	– Safety Data Sheet / Material Safety Data Sheet
NA	– Not Applicable
NCDOH	– Nassau County Department of Health
NFA	– No Further Action
NFRAP	– No Further Remedial Actions Planned
NJDEP	– New Jersey Department of Environmental Protection
NPDES	– National Pollutant Discharge Elimination System
NPL	– National Priority List
NYCDEP	– New York City Department of Environmental Protection
NYCDOB	– New York City Department of Buildings
NYCOER	– New York City Office of Environmental Remediation
NYSDEC	– New York State Department of Environmental Conservation
OPRA	– Open Public Records Act
PADEP	– Pennsylvania Department of Environmental Protection
PAH	– Polycyclic Aromatic Hydrocarbon
PCE	– Perchloroethylene
RAO	– Response Action Outcome
RCRA	– Resource Conservation and Recovery Act
RCRIS	– Resource Conservation and Recovery Information System
REC	– Recognized Environmental Condition
RWQCB	– Regional Water Quality Control Board
SCAQMD	– South Coast Air Quality Management District
SCDHS	– Suffolk County Department of Health Services
SDG	– Significant Data Gap
SEMS	– Superfund Enterprise Management System
SRP	– Site Remediation Program
SQG	– Small Quantity Generator
SVOC	– Semi-Volatile Organic Compound
TCE	– Trichloroethylene
TSDF	– Treatment Storage and/or Disposal Facility
USEPA	– United States Environmental Protection Agency
UST	– Underground Storage Tank
VEC	– Vapor Encroachment Condition
VOC	– Volatile Organic Compound

1.0 FINDINGS, OPINIONS, AND CONCLUSIONS

Hillmann Consulting, LLC (Hillmann) performed a Phase I Environmental Site Assessment (ESA) of APNs listed below located at West of Murrieta Road and East of Geary Street, Menifee, California (the Property). The assessment has been conducted in accordance with our contracted scope of work and the ASTM Standard Practice E 1527-13 for Phase I Environmental Site Assessments and All Appropriate Inquiries (AAI) Final Rule 40 CFR Part 312. This section contains a summary of findings, opinions and conclusions made by this assessment. However, this section, alone, does not constitute the complete assessment. The report must be read in its entirety.

1.1 Summary of Project Details

Primary Street Address:	West of Murrieta Road and East of Geary Street				
City:	Menifee	County:	Riverside	State:	California
Tax ID/Parcel Number:	330-210-003, 330-210-004, 330-210-005, 330-210-008, 330-210-011, 330-210-062, 330-210-010 and 330-210-013				
Property Owner:	Menifee Land DV LLC, Jose Ruiz Santana, Peter Salas, Jesse Jordan Romero,				
Zoning Designation:	Economic Development Corridor – Northern Gateway				
Approx. Property Area:	28.79 acres				
Buildings/# of Floors	Five (5) - single - story manufactured mobile homes with outbuildings/storage sheds				
Approx. Building Area:	25981 Elm St - 1,248 SF, 25931 Elm St, 26399 and 26429 Murrieta Road -1,440 SF				
Approx. Year Built:	1978				
Commercial Occupants:	N/A				
Current Use:	Undeveloped land and residential structures				
Prior Uses:	Agricultural				
Inspected By:	Ms. Shilpa Sunil				
Site Contact/Company:	Ms. Valentina Cadogan/ Lee Associates				
Site Escort/Company:	Mr. Eduardo Franco/ Broker				
Inspection Date:	May 21, 2021				
Weather Conditions:	Sunny, 68 degrees F				

1.2 Findings Summary Table

Assessment Subject	No REC	REC	CREC	HREC	Rpt. Ref.
Property Regulatory Records Review:	X				4.3
Property Historical Records Review:		X			4.2
Bulk Petroleum Storage:	X				5.3
On-Site Operations:	X				5.3
On-Site Haz-Mat Storage/Use/Spills:	X				5.3
Transformers/Hydraulic Systems:	X				5.3
Waste Discharges:	X				5.3
Interviews:		X			6.0
Adjoining & Nearby Properties:	X				4.3 5.2
Prior Env. Reports/User Provided Info:	X				3.0
Data Gaps:	X				2.3

1.3 Findings, Opinions and Conclusions

1.3.1 Recognized Environmental Conditions

Hillmann has performed a Phase I Environmental Site Assessment in accordance with the scope and limitations of ASTM Practice E1527-13 of the Property as described in Section 2 of this report. Any additions to, exceptions to, or deletions from this practice are also described in Section 2 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the Property, except for the following:

RECOGNIZED ENVIRONMENTAL CONDITIONS	
REC#1	Hillmann observed several stockpiles of soil on the parcel 330210005 and 330210062 from off-site.
HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS	
	No HRECs were identified.
CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS	
	No CRECs were identified.
SIGNIFICANT DATA GAPS	
	No SDGs were identified.

1.3.2 REC Response Action Recommendations

The following table presents recommended response actions to the identified RECs for further investigation and/or corrective action:

REC RESPONSE ACTION SUMMARY TABLE	
REC	Response Action
REC#1	A limited phase II investigation must be conducted on the soil piles

1.3.3 Notable Environmental Conditions / De Minimis Conditions

The following environmental conditions were identified, but are not considered to be a REC in connection with the Property:

NOTABLE ENVIRONMENTAL CONDITIONS / DE MINIMIS CONDITIONS	
1.	The Property was historically developed for agricultural uses as what appears to be dry farming from 1938 to 2002. The site has remained undeveloped land since 2002. The former dry farming is not considered to be a concern. The Property is developed with five residential structures that appear to be manufactured mobile homes with outbuildings and storage sheds located at the west and southwest portion of the Property. Hillmann did not have access to the interiors of the residential structures on the Property due to a guard dog. However, considering the residential nature of the structures, this is not considered to be a significant data gap.
2.	Hillmann observed approximately several stockpiles of dirt on the vacant southwest portion of the Property. The tenant indicated the soil is from off-site. In the event that the soil stockpiles are removed, testing would be warranted prior to off-site disposal. Therefore, the presence of the stockpiles is considered a REC and potential business environmental risk.
3.	Hillmann observed transmission power poles and overhead wires along the western portion of the Property boundary that run along Geary Street and McLaughlin Road.
4.	A greasy/oily stain was observed on the exterior to the west of the Property building and is considered to be a <i>de minimis</i> condition.
5.	Gas line easement was observed along the west side of the Property boundary along the Murrieta Road.
6.	Hillmann observed mold in the interior of the outbuilding by 26429 and 25931 addresses.
7.	Hillmann observed several empty 55-gallon drums on the Property. The drums were either used for storage of water or empty. There were no spills or staining in the vicinity of the drums and they are not considered RECs in connection with the Property. However, Hillmann recommends that the drums be identified and disposed of properly.
8.	The sanitary sewer is connected to an on-site septic system; however, the capacity of the septic tank is unknown. The on-site septic system is not anticipated to be a REC in connection with the Property. However, should the Property be planned for redevelopment in the future, the septic systems should be properly removed under applicable rules and regulations.
9.	Water well was observed at the address 26399 Murrieta Road and 25981 Elm Street reportedly utilized for irrigation and drinking purposes. The presence of the well and well pump system is not anticipated to be a REC in connection with the Property. However, should the Property be planned for redevelopment in the future, the well should be properly removed/abandoned under applicable rules and regulations.

1.3.4 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a *property* of the nature, history and setting of the subject *property*. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Ryan Terwilliger
Environmental Professional

1.4 Business Environmental Risks / Non-ASTM Scope

Hillmann has performed a limited review of the following potential Business Environmental Risks (BER), also known as “Non-ASTM Scope concerns”, in accordance with the contracted scope of work scope for this assessment. The following is a summary of findings for applicable BERs. For a more detailed discussion of the findings and contracted scope of work, please see the referenced report section.

BUSINESS ENVIRONMENTAL RISKS / NON-ASTM SCOPE			
Subject	Findings	Not Appl.	Rpt. Ref.
Asbestos	Based on the age on the structures, there is potential presence of asbestos. Suspect ACM noted within the building included sheet rock wall materials in good condition, vinyl floor tiles and mastic in locally damaged condition, and glued on ceiling tiles in damaged condition. Although not observed, the interior walls, carpet mastics and floor tile and roofing materials may contain asbestos.		7.1
Lead Paint	The interior surface of the Property was not inspected. In general, the paint surface observed is in fair condition. Lead-based paint may be present based on the age of the structures.		7.2
Radon	Property is located in the USEPA radon designation Zone 2 or 'moderate risk' area for radon.		7.3
Mold / Microbial Damage	Hillmann observed mold in the interior of the outbuildings located by the address 25931 Elm Street and 26429 Murrieta Road addresses.		7.4
NWI Wetlands	No NWI mapped wetlands areas were depicted at the Property.		7.5
Lead in Drinking Water	Potable water service at the Property is provided by a utility connection with Easter Municipal Water District and a private well located by the Property at address 26300 Murrieta Road and 25981 Elm Street.		7.6

2.0 INTRODUCTION

2.1 Purpose and Scope

This assessment was conducted utilizing generally accepted Phase I ESA industry standards in accordance with the ASTM Standard Practice E1527-13. The ASTM describes these methodologies as representing good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the “landowner liability protections,” or “LLPs”): that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35) (B). The primary goal of the processes established by ASTM E1527-13 is to identify *recognized environmental conditions* in connection with the Property.

The term *recognized environmental condition (REC)* is defined by the ASTM as the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to a release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

The ASTM has also defined the terms *historical recognized environmental conditions* and *controlled recognized environmental conditions* as two additional types of RECs. The term *historical recognized environmental condition (HREC)* is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the Property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the Property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls or engineering controls).

The term *controlled recognized environmental condition (CREC)* is defined as a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

Conditions determined to be “*de minimis conditions*” are not considered to be RECs, HRECs or CRECs. *De minimis condition* is defined by the ASTM, “...as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

The chief components of this assessment are generally described as follows:

- A non-invasive visual reconnaissance of the Property and adjoining properties in accordance with ASTM guidelines for evidence of RECs.

- Interviews of past and present owners and occupants and state and local government officials, seeking information related to the potential presence of RECs at the Property.
- A review of standard physical record sources for available topographic, geologic and groundwater data.
- A review of standard historic record sources, such as fire insurance maps, city directories, aerial photographs, prior reports and interviews, etc., to determine prior uses of the Property from the present, back to the Property's first developed use, or back to 1940, whichever is earlier.
- A review of standard environmental record sources including federal and state environmental databases, and additional environmental record sources, to identify potential regulatory concerns with the Property, adjoining properties and properties located within the surrounding area.

An evaluation of environmental or other regulatory compliance matters is excluded from the scope of this assessment.

These methodologies are described as representing good commercial and customary practice for conducting an Environmental Site Assessment of a property for the purpose of identifying recognized environmental conditions.

2.1.1 Business Environmental Risks/Non-ASTM Scope Considerations

In accordance with our contract agreement, Hillmann may have addressed the following potential environmental subject matters that are outside of the requirements of the ASTM E1527-13 standard:

Asbestos-Containing Materials (ACM): A cursory non-intrusive visual screening for the presence of suspect ACM within the accessed areas of buildings built prior to 1990 on the Property. It is emphasized that this cursory non-intrusive visual screening does not constitute an asbestos survey/inspection of the premises. An asbestos survey/inspection should be sought by the report User(s) if more certainty is desired regarding ACM and potential asbestos hazards at the Property. Furthermore, a review of regulatory compliance matters pertaining to asbestos is excluded from the scope of work.

Lead-Based Paint (LBP): A cursory non-intrusive visual screening of the condition of painted surfaces in the accessed areas of residential buildings/units built prior to 1980 on the Property. It is emphasized that this cursory non-intrusive visual screening does not constitute a comprehensive survey for LBP or potential lead hazards. A comprehensive inspection should be sought by the report User(s) if more certainty is desired regarding LBP at the Property. Furthermore, a review of regulatory compliance matters pertaining to lead-based paint is excluded from the scope of work.

USEPA Designated Radon Potential: Review of general non-site specific data published by the USEPA regarding the Radon Zone classification for the area of the Property.

Mold/Microbial Damage: A cursory non-intrusive visual screening within the accessed areas of buildings on the Property for evidence of systemic microbial problems, including visible mold

growth, water damaged building materials or musty odors. It is emphasized that this cursory non-intrusive visual screening does not constitute a comprehensive survey for moisture/mold/microbial damage. A more comprehensive inspection should be sought by the report User(s) if more certainty is desired regarding the potential for moisture/mold/microbial damages at the Property.

NWI Wetlands: Review of US Fish and Wildlife Service National Wetland Inventory digitized data of mapped wetlands as presented in the attached EDR Radius Map plus Geocheck Report.

It is emphasized that, regardless of the wetlands data obtained via the EDR Geocheck-Physical Setting Source Addendum, a delineation of regulated wetlands by a qualified professional would be warranted to determine the presence or absence of regulated wetlands at the Property.

Lead in Drinking Water: Review of the potential for elevated levels of lead in the drinking water by determining the source of the drinking water supply and a review of available testing or compliance data reports.

2.2 Property Location/Legal Description

Property location and legal description details are described as follows:

Primary Street Address:	West of Murrieta Road and East of Geary Street				
City:	Menifee	County:	Riverside	State:	California
Tax ID/Parcel Number:	330-210-003, 330-210-004, 330-210-005, 330-210-008, 330-210-011, 330-210-062, 330-210-010 and 330-210-013				
Approx. Land Area:	28.79 acres				
Approx. Latitude/Longitude:	North 33.7374200 degrees/West 117.2082920 degrees				
Additional Details (if appl.):	Proposed site consists for residential homes with address 25981 Elm St, 25931 Elm St, 26399 and 26429 Murrieta Road and remaining portion is undeveloped land.				
Property Owner:	Menifee Land DV LLC, Jose Ruiz Santana, Peter Salas, Jesse Jordan Romero,				
Zoning Designation:	Economic Development Corridor – Northern Gateway				

2.3 Data Gaps

A *data gap* is defined by the ASTM as a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. A data gap is only significant if other information and/or professional experience raises reasonable concerns involving the data gap and the ability to determine the presence or absence of recognized environmental conditions. The following table summarizes data gaps encountered during the assessment as well as a discussion of their significance.

Data Gap:	Significant (Yes/No)?	Discussion
Historical records data failure	No	Record gaps exceeding five years were encountered; however, no significant site use changes are suspected during these intervals.
Response to agency records requests not received as of date of report.	No	Any additional information indicative of a REC will be forwarded upon receipt.

2.4 User Reliance

This report is for the exclusive use of the User(s) named on the front cover. No other party(ies) shall have any right to rely on the content of this report without first obtaining the consent of the original report User; and without obtaining written consent from Hillmann in the form of a letter of reliance or report recertification.

2.5 Significant Assumptions

The following significant assumptions are made:

- The site operations at the time of the site visit are assumed to reflect typical site conditions relative to potential environmental conditions and that no concealment of environmental conditions or releases by site owners or occupants has occurred. Likewise, it is assumed that no areas of the Property with potential environmental concerns or RECs were concealed or otherwise not reported, intentionally or unknowingly, by the Property owners/occupants and/or site escort at the time of the site visit.
- For the purpose of estimating the approximate direction of groundwater flow in the absence of site specific groundwater data, unless indicated otherwise, an assumption has been made that the gradient of groundwater flow follows the surface topography of the Property and immediate surrounding area.

2.6 General Limitations and Exceptions

2.6.1 Limitations

The report turnaround time specified by the contract agreement for this assessment may present a limitation to the availability of pertinent regulatory agency records. Such limitations, if encountered, are further specified in Section 4.4.

Significant limitations related to the condition or accessibility of the Property at the time of the site reconnaissance, if encountered, are reported in Section 5.1.

2.6.2 Other Exceptions or Deletions

No other exceptions or deletions from the ASTM Standard E1527-13 are reported.

2.6.3 Special Terms and Conditions

This Phase I Environmental Site Assessment has been prepared using reasonable efforts in each phase of its work to identify recognized environmental conditions associated with hazardous substances, wastes and petroleum products at the Property. Findings within this report are based on information collected from observations made on the day of the site reconnaissance and from reasonably ascertainable information obtained from governing public agencies and private sources.

This report is not definitive and should not be assumed to be a complete or specific definition of the conditions above or below grade. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, site development, redevelopment, or other construction purposes. No representation or warranty is made that the past or current operations at the Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes.

Findings, conclusions and recommendations presented in this report are based on visual observations of the Property, interviews conducted, the records reviewed, information provided by the Client, and/or a review of readily available and supplied drawings and documents. Information obtained during the assessment, whether written, graphic or verbal, provided by the Property contact(s) or as shown on any documents reviewed or received from the Property contact, owner or agent, or government agency source; is assumed to be accurate except as specifically stated otherwise in this report. Independent verification of the accuracy or completeness of all information reviewed or received during the course of this assessment is not made and excluded from the scope of work for this assessment. No warranty or guarantee is made of the accuracy or completeness of information that was obtained from ostensibly knowledgeable individuals, regulatory agency representatives or other secondary sources.

Regardless of the findings stated in this report, Hillmann is not responsible for consequences or conditions arising from facts that were concealed, withheld or not fully disclosed at the time the assessment was conducted.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

The regulatory database report provided is based on an evaluation of the data collected and compiled by a contracted data research company. The regulatory research is designed to meet the requirements of ASTM Standard E1527-13. Hillmann can neither warrant nor guarantee the accuracy or completeness of the information obtained from the regulatory database report provider during the course of this assessment.

Subsurface conditions may differ from the conditions implied by the surface observations and can only be reliably evaluated through intrusive techniques.

Reasonable efforts have been made during this assessment to identify aboveground and underground storage tanks and ancillary equipment. Reasonable efforts are limited to information gained from visual observation of largely unobstructed areas, recorded database information held in public record and available information gathered from interviews. Such methods may not identify

surficial and subsurface features that may have been hidden from view due to parked automobiles and other vehicles, snow cover, vegetative growth, pavement, construction or debris pile storage or incorrect information from sources.

No guarantee, explicit or implied, is made that the records pertaining to historical ownership or occupancy which were reviewed represent a comprehensive or precise delineation of past Property ownership or tenancy for legal purposes.

The ASTM E1527-13 standard states that recommendations are not required to be included in a Phase I ESA report; however, further that recommendations are an additional service that may be useful in the User's analysis of landowner liability protections or business environmental risks; and that the User should consider whether recommendations for additional inquiries or other services are desired.

The recommended response actions to the identified RECs presented in Section 1.3, if any, are not intended to represent the only course(s) of action to take; nor does it imply any opinion as to the timing of the action. Furthermore, it is emphasized that additional response actions may become warranted depending on the outcome of the initial action(s) taken. Hillmann advises that consultation with legal counsel familiar with environmental and real estate law may be beneficial to the decision making process for the type and timing of a response action to identified RECs, if any.

Due to the limited nature of our review of potential Business Environmental Risks, the User of the report should consider whether to take additional action(s) to further define, properly manage and/or mitigate potential BERs.

In the event of any conflict between the terms and conditions of this report and the terms and conditions of the consulting services agreement for this project, the consulting services agreement shall control.

3.0 USER PROVIDED INFORMATION

The term “User” is defined by ASTM as the party seeking to use Practice E1527 to complete an environmental site assessment of the Property; specifically, the entities named on the front cover to which the report has been addressed.

3.1 Prior Environmental Reports/Documentation

No prior environmental reports/documentation were provided.

3.2 User Questionnaire

Section 6 of the ASTM E1527-13 standard describes certain tasks required to be performed by the report User in order to qualify for landowner liability protections to CERCLA liability. To assist the report User to meet these requirements, the ASTM E1527-13 standard recommends a questionnaire of inquiries (User Questionnaire) specified in 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31 be provided to the original report User. A User Questionnaire has been provided to the report User; however, a completed questionnaire was not returned to Hillmann.

Question:	Yes/No:	Detail:
Environmental liens that are filed or recorded against the property: Did a search of recorded land title records identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	No	
Activity and use limitations that are in place on the property or that have been filed or recorded against the property: Did a search of recorded land title records (or judicial records where appropriate, identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	No	
Specialized knowledge or experience of the person seeking to qualify for the LLP: 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?	No	
Relationship of the purchase price to the fair market value of the property if it were not contaminated: 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?	Yes	
Commonly Known or Reasonably Ascertainable Information: Are you aware of commonly known or reasonably ascertainable information about the property that would help the		

Question:	Yes/No:	Detail:
environmental professional to identify conditions indicative of releases or threatened releases? For example,		
-Do you know the past uses of the property?	No	
-Do you know of specific chemicals that are present or were once present at the property?	No	
-Do you know of spills or other chemical releases that have taken place at the property?	No	
-Do you know of any environmental cleanups that have taken place at the property?	No	
The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation: Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?	No	
Litigation/Administrative Proceedings/Government Notices As the User of this ESA, do you have knowledge of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.	No	

NR-no response

3.3 Reason for Performing Phase I ESA

The User did not indicate the purpose of the assessment. In accordance with ASTM E1527-13, it is assumed that the Phase I ESA was being performed in order to qualify for landowner liability protection to CERCLA liability.

4.0 RECORDS REVIEW

4.1 Physical Setting Sources

The following physical setting sources were reviewed:

Source	Discussion
USGS 7.5 minute Topographic Map Data: (EDR Geocheck-Physical Setting Source Addendum)	The Property lies at an elevation of approximately 1,433 feet above mean sea level. An interpretation of topographic contour lines as well as a review of the EDR Geocheck-General Topographic Gradient suggested terrain sloping downward towards the northeast.
USDA SCS Soil Data: (EDR Geocheck-Physical Setting Source Addendum)	The dominant soil component at the Property is identified as the "Auld". This soil type is described as clay with very low infiltration rates.
Geologic Data: (EDR Geocheck-Physical Setting Source Addendum)	The geologic formation in the vicinity of the Property is described as Plutonic and Intrusive rocks of the Mesozoic Era, Cretaceous System, and Cretaceous granite rocks series.
Prior Env. Reports: (Section 3.1)	No additional relevant site specific geologic data was noted from a review of the prior environmental reports listed in Section 3.1.
Additional Sources/Data:	No additional physical setting sources or data was obtained.
Groundwater Flow Discussion:	Based on a review of the above information as well as observation of the site, the direction of shallow groundwater flow at the site is inferred to be towards the northeast.
NWI Wetlands Data: (EDR Geocheck-Physical Setting Source Addendum)	No NWI mapped wetlands areas were depicted at the Property.

4.2 Historical Use – Property and Adjoining Properties

Research has been conducted in an attempt to develop a history of the previous uses of the property and surrounding area, in order to help identify the likelihood of past uses having led to RECs in connection with the property. Standard historical sources have been sought in an attempt to document the past uses of the Property as far back as it can be shown that the Property contained structures; or from the time the Property was first used for residential, agricultural, commercial, industrial or governmental purposes.

4.2.1 Fire Insurance Maps

A Certified Sanborn Map Report was obtained from EDR for a review of published historic fire insurance maps for the Property and surrounding area. The following is a summary of site uses and notable details depicted by the available maps:

Year(s)	Prop/Adj	Depicted Use(s)	Notable Details
	Property:	(no coverage)	
	Adjoining:		

A copy of the Certified Sanborn Map Report is attached in Appendix D.

4.2.2 City Directories

An EDR City Directory Abstract report was reviewed for data of former occupants of the Property's street address. The following is a generalized summary of the findings of city directory research for past occupants of the Property.

Property	
Use(s) / Occupant(s):	Years
Residential	1976 - 2017

The EDR City Directory Abstract report was also reviewed for listings of historic occupants of the adjoining properties. The following is a general summary of listings of historic adjoining property occupants:

Adjoining Properties	
Use and/or Occupant(s)	Years
Residential	1976-2017

A copy of the EDR City Directory report is attached in Appendix D.

4.2.3 Historical Topographic Maps

Historical topographic maps of the Property and vicinity obtained from an EDR Historical Topographic Map report (as attached in Appendix D) have been reviewed. The following interpretation of land usage was made by review of the maps:

Year(s)	Summary	
1901, 1942, 1943, 1947, 1953, 1973	Property:	No improvements or notable features are shown. A roadway is depicted in the center of the Property.
	Adjoining:	No structures or type of land use depicted. Roads are depicted to the north and east.
1979	Property:	A small structure depicted at the center of the Property. No other structures or type of land use depicted.
	Adjoining:	No improvements or notable features are shown.
2012	Property:	No improvements or notable features are shown.
	Adjoining:	No improvements or notable features are shown.

4.2.4 Historical Aerial Photographs

Historical aerial photographs of the Property and vicinity obtained from an EDR Aerial Photo Decade Package report, as attached in Appendix D, were reviewed. The following interpretation of land usage was made by review of the aerial photographs:

Year(s)	Summary of Interpretation	
1938	Property:	Agricultural land, an unpaved road is depicted at the center of the Property.
	Adjoining:	Vacant, agricultural land. Roads depicted to the east.
1949, 1953, 1961, 1967, 1974	Property:	Vacant, agricultural land.
	Adjoining:	Vacant, agricultural land.

1978	Property:	Vacant, agricultural land. Small structures depicted at the center portion of the Property.
	Adjoining:	Vacant, agricultural land.
1985, 1989,	Property:	Small residential structures depicted to the southeast, the remaining portion is vacant land. Transmission poles are depicted to the southwest border of the Property.
	Adjoining:	Vacant, small residential structures depicted to the north.
1994, 1997, 2002	Property:	Small residential structures depicted to the southeast, the remaining portion is vacant land. Transmission poles are depicted to the southwest border of the Property.
	Adjoining:	Vacant, agricultural land. Small residential structures depicted to the north, east and southwest.
2006, 2009, 2012, 2016	Property:	Undeveloped, generally consistent with current conditions.
	Adjoining:	Residential development to the north and south. Generally consistent with current conditions.

4.2.5 EDR High-Risk Historical Records

The EDR Radius Map™ report, which is discussed in greater detail in Section 4.3, provided a search of proprietary databases of potential historical high-risk uses at or in the vicinity of the Property. These databases include EDR Historic Cleaners – a database of property addresses with records of historical occupancy by suspected cleaners businesses; EDR Historic Auto – a database of property addresses with records of historical occupancy by potential automotive gas/filling stations and repair facilities; and EDR MGP- a database of sites historically occupied by manufactured gas plants and related facilities.

EDR Database	On-site Listings:	Adjoining/Off-Site Listings
Historic Cleaners: (on-site/adjoining only)	None	None
Historic Auto: (on-site/adjoining only)	None	None
MGP: (1-mile distance)	None	None

4.2.6 Petroleum/Natural Gas Well Review

The historical record sources and the California Geologic Energy Management Division (CalGEM) online mapping application were reviewed for records of historic petroleum and/or natural gas wells at the Property. No record of any historical petroleum/natural gas wells at or adjoining the Property was identified.

4.2.7 Additional Historical Data

Where applicable, the following additional pertinent historical data was obtained:

Interviews/Anecdotal:	No additional pertinent historical data was obtained.
Local Gov't Records:	No additional pertinent historical data was obtained.
Prior Env. Reports: (Section 3.1)	Prior environmental reports reviewed as part of this assessment, as detailed in Section 3.1, did not provide additional pertinent detail of historical site usage.

Site Observations:	Indications of historic uses of the Property or adjoining properties were not observed during the site reconnaissance.
Other Sources:	No additional pertinent historical data was obtained.

4.2.8 Summary of Identified Historic Uses

The following table presents a summary of the types and approximate date ranges of identified prior uses of the Property:

Property	
Date Range	Use
1938 -1967	Agricultural land
1978	Small structures and agricultural land
2002- present	Residential, undeveloped

The following table presents a summary of the types of identified prior uses of the adjoining properties:

Adjoining Properties	
Date Range	Use
1938 to present	Vacant, agricultural land
1989 to present	Residential/ undeveloped

4.2.9 Historical Records Data Failure

The ASTM E1527-13 standard defines data failure as a failure to achieve the ASTM specified historical research objectives after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. The objective is to identify all obvious uses of the property from the present, back to the property's first developed use, or back to 1940, whichever is earlier. Furthermore, records of historic use/conditions should be sought in intervals no less than approximately five years, unless the property conditions appear unchanged over a longer interval.

Objective	Met?	Detail	Significant?
First developed use/date determined?	No	The earliest documented use of the Property was agricultural circa 1938.	No
Record sources at 5-year intervals back to 1940 or first developed use?	No	Historical record gaps exceeding five years were encountered. However, significant site-use changes or undiscovered site uses appear unlikely to have occurred during the record gaps.	No
All obvious prior uses identified?	Yes	See Section 4.2.8.	NA

Please refer to Section 2.3 for additional discussion of data gaps and their significance to the findings of the assessment.

4.2.10 Historic Uses REC Discussion

The review of historical records did not indicate evidence of a REC in connection with the Property.

The Property was historically developed for agricultural uses as what appears to be dry farming from 1938 to 2002. The site has remained undeveloped land since 2002. The former dry farming is not considered to be a concern.

However, Hillmann observed approximately several stockpiles of dirt on the vacant southwest portion of the Property. In the event that the soil stockpiles are removed, testing would be warranted prior to off-site disposal. Therefore, the presence of the stockpiles is considered a REC and potential business environmental risk.

4.3 Standard Environmental Record Sources

A regulatory database report, titled EDR Radius Map™ Report, prepared by Environmental Data Resources of Shelton, CT was obtained and reviewed. The report provided a search of standard environmental record sources for listings of the Property, adjoining properties and sites within the surrounding area; and has been reviewed for the purpose of identifying listings suggesting a potential impact to the Property due to presence or migration of hazardous substances and/or petroleum products. Additional descriptions of the meaning and significance of the regulatory databases can be found in the regulatory database report in Appendix E. The EDR Radius Map™ Report provided a search of the following database categories in accordance with the requirements of the ASTM Standard E1527-13:

Regulatory Database	Search Distance
Fed. National Priorities List (NPL/a.k.a. "Superfund" sites) & Proposed NPL	1-mile
Fed. Delisted NPL	½-mile
Fed. Superfund Enterprise Management System (SEMS; formerly CERCLIS)	½-mile
Fed. SEMS-ARCHIVE (formerly known as CERCLIS NFRAP)	½-mile
Fed. RCRA Corrective Action Sites (CORRACTS)	1-mile
Fed. RCRA Transport/Storage/Disposal (TSD) sites	½-mile
Fed. RCRA Generators (LQG, SGQ & CESQG)	Site & Adjoining
Fed. Institutional Control/Engineering Control (IC/EC) Registries	Site only
Fed. Emergency Response Notification System (ERNS)	Site only
State/Tribal Hazardous Waste Sites (SHWS)	1-mile
State/Tribal Landfill and/or Solid Waste Disposal (LF/SWF)	½-mile
State/Tribal Leaking Storage Tanks	½-mile
State/Tribal Registered Storage Tanks	Site & Adjoining
State/Tribal IC/EC Registries	Site
State/Tribal Voluntary Cleanup Sites	½-mile
State/Tribal Brownfields	½-mile
Additional Federal, State, Tribal and Local Environmental Databases	Variable

Reported distances for adjoining listings discussed in Section 4.3.4, if applicable, are approximate and indicative of the presence of a public roadway or right-of-way between the adjoining site and Property.

The reported gradients indicated where applicable in Sections 4.3.4 and 4.3.5 have been estimated based on a number of factors including but not necessarily limited to field observation, review of topographic maps, database listing details and/or site specific geo-technical data.

4.3.1 Supplemental Database Listings

The regulatory database report was also reviewed for listings on supplemental databases, in addition to the Standard Environmental Record Sources. Any property or adjoining property listings on such databases of significant concern, if identified, is discussed in Sections 4.3.3 and 4.3.4. Otherwise, none of the other supplemental database listings identified by the regulatory database report are considered to be a REC in connection with the Property.

4.3.2 Limited Tier I Vapor Encroachment Screening

Limited analysis of the details of on-site, adjoining and vicinity database sites was conducted to identify potential sources of sub-surface vapor encroachment. This review was based on elements of the ASTM “Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions” (ASTM E 2600-15); and also on elements of “Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources” (Buonicore, 2011-S-103-AWMA). Vicinity database sites pertaining to non-petroleum product releases within 1,760 feet of the Property in the up-gradient direction, 365 feet of the Property in the cross gradient direction and 100 feet of the Property in the down gradient direction; and vicinity database sites pertaining to petroleum product releases within 528 feet of the Property in the up-gradient direction, 165 feet of the Property in the cross gradient direction and 100 feet of the Property in the down gradient direction were reviewed to identify active contamination sites with the potential to affect subsurface vapor conditions at the subject property. The potential for vapor encroachment was considered in assessing whether or not a REC exists in connection with the Property when reviewing applicable sites within those distances.

Regulatory database sites with active petroleum or non-petroleum releases that are considered to constitute a vapor encroachment condition (VEC) to the Property, if any, are identified and discussed in Sections 4.3.3, 4.3.4 and 4.3.5.

4.3.3 Property Listings

The following listings of the Property were identified:

Name/Address:	None
Database(s):	
Data Discussion:	
REC Discussion:	
VEC Discussion:	

4.3.4 Adjoining Property Listings

The following adjoining property listings were identified. Reported distances, where applicable, are approximate and indicative of the presence of a public roadway or right-of-way between the

adjoining site and Property. The reported gradient has been estimated based on a number of factors including but not necessarily limited to field observation, review of topographic maps, database listing details and/or site specific geo-technical data.

Name/Address:	None		
Database(s):			
Distance in feet:	Direction:	Gradient:	
Data Discussion:			
REC Discussion:			
VEC Discussion:			

4.3.5 ASTM Search Distance Findings

The following is a discussion of non-adjoining sites identified as located within the ASTM specified search distance surrounding the Property. In order to keep this discussion informative and concise, discussion(s) is/are provided of the site(s) for each database category that appears most likely to impact the Property based on distance, area topography and/or regulatory status. Listings of sites within the applicable search distances not specifically discussed below were reviewed and concluded not to be RECs in connection with the Property or VECs based on various factors including distance, area topography, known or inferred groundwater flow direction and/or regulatory status. Listings for the following databases, if identified, have been discussed above in Sections 4.3.3 and 4.3.4: Registered Storage Tanks, Federal RCRA Generators, Federal and State EC/IC, ERNS. A copy of the full regulatory database report, including available details of all listed sites, is included in Appendix E.

Federal NPL		# of sites:	0	Search Distance:	1-mile
Notable Listing:	None				
Distance in feet:	Direction:	Gradient:			
Data Discussion:					
REC Discussion:					
VEC Discussion:					

Federal Delisted NPL		# of sites:	0	Search Distance:	1-mile
Notable Listing:	None				
Distance in feet:	Direction:	Gradient:			
Data Discussion:					
REC Discussion:					
VEC Discussion:					

Federal SEMS		# of sites:	0	Search Distance:	1/2-mile
Notable Listing:	None				
Distance in feet:	Direction:	Gradient:			
Data Discussion:					
REC Discussion:					
VEC Discussion:					

Federal SEMS-ARCHIVE		# of sites:	0	Search Distance:	1/2-mile
Notable Listing:	None				
Distance in feet:		Direction:		Gradient:	
Data Discussion:					
REC Discussion:					
VEC Discussion:					

Federal CORRACTS		# of sites:	0	Search Distance:	1-mile
Notable Listing:	None				
Distance in feet:		Direction:		Gradient:	
Data Discussion:					
REC Discussion:					
VEC Discussion:					

Federal RCRA-TSD		# of sites:	0	Search Distance:	1/2-mile
Notable Listing:	None				
Distance in feet:		Direction:		Gradient:	
Data Discussion:					
REC Discussion:					
VEC Discussion:					

State HAZARDOUS WASTE SITE		# of sites:	3	Search Distance:	1-mile
Notable Listing:	The Club K-8 School/ Evans Road/Nova Lane				
Distance in feet:	2,867	Direction:	ESE	Gradient:	None, due to hydrologic barrier.
Data Discussion:	The listing indicates the site as a school investigation site. Agricultural -row crops with chromium VI Cobalt Copper and nickel compounds and concern of contaminants in soil.				
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.				
VEC Discussion:	Based on the available data, a VEC is not suspected.				

State SOLID WASTE FACILITY/LANDFILL		# of sites:	0	Search Distance:	1/2-mile
Notable Listing:	None				
Distance in feet:		Direction:		Gradient:	
Data Discussion:					
REC Discussion:					
VEC Discussion:					

State LEAKING STORAGE TANKS		# of sites:	0	Search Distance:	1/2-mile
Notable Listing:					
Distance in feet:		Direction:		Gradient:	
Data Discussion:					
REC Discussion:					
VEC Discussion:					

State VOLUNTARY CLEANUP SITES		# of sites:	0	Search Distance:	1/2-mile
Notable Listing:	None				
Distance in feet:		Direction:		Gradient:	
Data Discussion:					
REC Discussion:					

VEC Discussion:			
State BROWNFIELD SITES		# of sites:	0
		Search Distance:	1/2-mile
Notable Listing:	None		
Distance in feet:		Direction:	
		Gradient:	
Data Discussion:			
REC Discussion:			
VEC Discussion:			

UNMAPPED/ORPHAN LIST SITES	
	Hillmann has also reviewed a list of unmapped sites (a.k.a. "Orphan List" sites) indicated by the database report. Unmapped sites that were identified as falling within an applicable specific search distance or warranting discussion have either been discussed in the preceding tables or are detailed below:
Notable Listings:	None

4.4 Additional Environmental Record Sources

Requests have been submitted to local, municipal and state agencies for pertinent records pertaining to the Property, particularly with regard to potential environmental concerns such as petroleum storage tanks, storage and usage of hazardous substances and petroleum products, and/or known or suspected environmental contamination. Where applicable, internet research of government environmental regulatory databases was also conducted, as well as a general cursory internet search of the Property address, for information indicative of a REC. The following table summarizes the findings of the research:

Source	Type of Request	Outcome
EPA MyProperty	Online search	Hillmann reviewed available on-line records pertaining to the Property. No information indicative of a REC was identified.
CA DTSC (Envirostor)	Online search	Hillmann reviewed available on-line records pertaining to the Property. No information indicative of a REC was identified.
CA SWRCB (GeoTracker)	Online search	Hillmann reviewed available on-line records pertaining to the Property. No information indicative of a REC was identified.
City of Menifee City Clerk	FOI request	No response was received prior to report issuance.
Riverside County Department of Agriculture	FOI request	Hillmann reviewed available on-line records pertaining to the Property. No information indicative of a REC was identified.
County of Riverside Department of Environmental Health (DEH) Hazardous Materials Management Branch	FOI request	A response was received stating that no records were found.

Source	Type of Request	Outcome
Riverside County Fire Prevention/Marshall	FOI request	No response was received prior to report issuance.
County of Riverside DEH Land Use & Water Resources	FOIA Request	A response has not been received.
Regional Water Quality Control Board (RWQCB)	FOIA Request	A response indicated that a Property address is required to search for records.
South Coast Air Quality Management District (SCAQMD)	FOIA Request	A response has not been received.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of the Property and improvements, adjoining properties as viewed from the Property boundaries and the surrounding area based on visual observations from adjoining public thoroughfares. Building exteriors were observed at ground level, unless otherwise indicated. Where applicable, representative areas of building interiors were accessed and observed to the extent they were made safely accessible with the cooperation of the site escort.

Site Inspection Personnel:	Ms. Shilpa Sunil
Property Escort/Company:	Mr. Eduardo Franco/Broker
Inspection Date:	May 21, 2021
Weather Conditions:	Sunny, 78 °F

5.1.1 Significant Inaccessible Areas

The following significant areas of the Property were not accessed at the time of the site visit: Hillmann was not provided access to the interior of the residential structures at the time of the inspection. Hillmann did not have access to the interiors of the residential structures on the Property due to a guard dog. However, considering the residential nature of the structures, this is not considered to be a significant data gap.

Additionally, there was no access provided to the storage garage by 26429 Murrieta Road and red barn like structure by address 25931 Elm Street. However, the existing occupants reported the storage sheds were used for storage of tools, household items and furniture.

5.1.2 Significant Limiting Site Conditions

No significant limiting site conditions were noted at the time of the site reconnaissance.

5.2 General Site Setting

5.2.1 Site and Vicinity Characteristics

Abutting Roadways:	Murrieta Road to the east, Geary Street to the west
Current Property Use:	Residential/undeveloped
Evidence of Past Property Uses:	None observed.
Evidence of Past Adjoining Property Uses:	None observed.
Surrounding Area Uses:	Undeveloped land, transmission poles and Commercial

5.2.2 Current Adjoining Property Uses

Dir	Street Address	Description
N	Murrieta Road	Residential
W	Geary Street	Undeveloped
E	Murrieta Road	Commercial
S	Mclaughlin Road	Residential

No visual observations indicative of a potential environmental concern were noted on the adjoining properties.

5.2.3 Topographic Characteristics

Terrain:	Generally flat
Direction of Downward Slope:	Gently sloping downwards towards the northeast
On-site Water Bodies:	None observed
Other Significant Features:	None observed

5.2.4 General Description of Structures

Buildings/# of Floors	Five manufactured mobile homes – single story
Approx. Building Area:	25981 Elm St- 1,248 SF, 25931 Elm St, 26399 and 26429 Murrieta Road -1,440 SF
Approx. Year Built:	1978
Ancillary Structures:	Outbuildings/storage shed and horse stable
Sources of Heating & Cooling:	No heating or cooling systems were present at the Property.
Potable Water/Sewage Disposal:	Potable well and septic system. See Sections 5.3.15 and 5.3.16 for additional details.

5.3 Interior & Exterior Observations

5.3.1 Storage/Usage of Hazardous Substances and Petroleum Products

The following hazardous substances and petroleum products were observed to be stored and used by property occupants:

Occupant	Substance	Qty/Container Type	Storage Conditions
Tenant	Small containers of oil, aerosols, cleaning solution and liquid fertilizer	5 gallon/ plastic	Fair, observed on the shelves of the storage shed

5.3.2 Drums

No hazardous substance or petroleum product drums were noted on the Property.

However, Hillmann observed several 55-gallon steel and plastic empty drums on the Property. The drums were mostly empty or used for storage of water. There was no secondary containment and no signs of spills or leaks around the drums.

5.3.3 Unidentified Substance Containers

No unidentified substance containers suspected of containing hazardous substance or petroleum product were noted on the Property.

5.3.4 Other Hazardous Substances/Petroleum Products

No other containers of hazardous substances or petroleum products were noted on the Property.

5.3.5 Bulk Petroleum/Hazardous Material Storage Tanks

The following storage tanks for bulk petroleum or hazardous material storage were identified or reported to be present; or are suspected to be present based on visual observations:

AST/ UST	Product	Capacity	Construction	Year Installed	Status	Location/Notes
(none)						

5.3.6 PCBs in Oil Filled Electrical/Hydraulic Equipment

No oil-filled electrical or hydraulic equipment was identified at the Property.

One pole mount transformer was observed along the east property boundary along Murrieta Road and a pad mount transformer along Elm Street. There were no leaks or spills observed in the vicinity of the transformers.

5.3.7 Odors

No strong, pungent or noxious odors were noted at the Property.

5.3.8 Pools of Liquid

No standing water or pools of liquid likely to contain hazardous substances or petroleum products were noted at the Property.

5.3.9 Interior Stains or Corrosion

No interior stains or corrosion due to hazardous substance/petroleum products spills/releases were noted at the Property.

5.3.10 Interior Drains/Sumps

No floor drains or sump pits were noted at the Property other than for storm water or sewage management.

5.3.11 Exterior Pits/Ponds/Lagoons

No exterior pits, ponds or lagoons was identified on the Property in connection with waste treatment or disposal.

5.3.12 Stained Soil, Pavement/Stressed Vegetation

No stained soil, pavement or stressed vegetation was observed at the Property.

A greasy/oily stain was observed on the exterior to the west of the Property building (26399 Murrieta Road) and is considered to be a *de minimis* condition.

5.3.13 On-Site Solid Waste Disposal/Fill Material

No evidence of solid waste dumping was observed at the Property. However, Hillmann observed several stockpiles of soil/ building material stockpiles covered with vegetation on the southwest portion of the Property. Additionally, a stockpile of soil was observed at the 25981 Elm Street residence front yard. It was reported the soil stockpiles were not native to the Property and the soils were stored from another off-site residential development for over four years. The presence of soil stockpiles are considered to be a REC and potential business environmental risk to the Property.

5.3.14 Waste Water

Sanitary sewage generated at the Property is discharged via an on-site septic system. See Section 5.3.15 for additional details regarding the septic system.

Storm water runoff at the Property is discharged off-site to local streams/drainage systems via overland flow.

No additional waste water discharges were identified at the Property.

5.3.15 Septic Systems

A septic system is present and utilized for on-site disposal of sanitary sewage. The system is located on rear side of the existing residential structures at the 26399 Murrieta Road and 25981 Elm Street addresses. Considering the lack of industrial waste discharges, the septic system is not considered to be a REC in connection with the Property. However, should the Property be planned for redevelopment in the future, the septic systems should be properly removed under applicable rules and regulations.

5.3.16 Wells

The following groundwater wells were identified at the Property: Water wells were observed at the 26399 Murrieta Road and 25981 Elm Street addresses. The presence of a water well is not anticipated to be a REC in connection with the Property. However, should the Property be planned for redevelopment in the future, the wells should be properly removed/abandoned under applicable rules and regulations.

5.3.17 Railroad Spurs

No railroad spurs were identified on the Property.

6.0 INTERVIEWS

6.1 Interviews with Past and Present Owners and Occupants

Subject	Name/Affiliation	Summary
Property Owner / Representative	Mr. Eduardo Franco/ Broker Owner Representative	The Property owner / representative was interviewed at the time of the assessment. Pertinent information is provided in the relevant sections of the report.
Property Occupants	Tenants/ (Name withheld)	The tenants on-site were interviewed at the time of this assessment. The tenant from 25981 Elm street reported the soil stockpiles were from off-site. Pertinent information is provided in the relevant sections of the report.
Past Owners, Occupants, Operators	Not applicable	Past owners/occupants of the Property were not available for interview at the time of the assessment.
Owners/Occupants of Adjoining or Nearby Properties	Not applicable	The Property was not an abandoned property with evidence of unauthorized uses or uncontrolled access; therefore, interviews with adjoining or nearby property owners or occupants were not conducted.

6.2 Interviews with State and/or Local Government Officials

Written and on-line requests for environmental records of the Property from State and Local governmental agencies are detailed in Section 4.4.

7.0 BUSINESS ENVIRONMENTAL RISKS

In accordance with the contract agreement for this assessment, Hillmann has performed cursory reviews of several potential Business Environmental Risks (also known as “Non-Scope Considerations”). The ASTM E1527-13 standard defines the term business environmental risk (BER) as, “*a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.*”

7.1 Asbestos-Containing Material (ACM)

The contracted scope of work included a cursory visual screening of the accessed portions of buildings at the Property built prior to 1990 for suspect asbestos containing materials (ACM). The information provided in this section, where applicable, is limited to identification of potential suspect materials in the readily accessible and observed areas of the building, and their general condition. This is not intended to be a comprehensive survey for the presence of ACM, and no testing has been conducted. Construction of the Property improvements began in 1989, with addition made in 1998 and 2005.

Suspected ACM noted within the accessed building areas included ceiling, flooring and sheetrock wall systems. Although not observed, roofing materials may be present that are suspected ACM.

7.2 Lead-Based Paint

The contracted scope of work included a cursory visual screening of the condition of painted surfaces in the accessed areas of residential buildings/units built prior to 1980. This is not intended to constitute a comprehensive survey for LBP or potential lead hazards, and no testing has been conducted.

Painted surfaces observed within the accessed areas of the residential building were noted to be fair. There was limited access to the interior of the residential homes.

7.3 Radon

Data compiled by the USEPA, as summarized by the regulatory database report, indicated that the Property is located in an area classified as Zone 3 or 'low risk' area for radon. Radon testing was not included in the scope of this assessment.

7.4 Mold/Microbial Damage

As per the contracted scope of work, Hillmann conducted a cursory visual screening of the accessed areas of the building for evidence of significant damage to building materials and finishes as result of moisture intrusion and/or mold/microbial growth. The following evidence of significant moisture intrusion or mold/microbial growth was noted: Hillmann observed mold in the interior of the outbuildings located by the 25931 Elm Street and 26429 Murrieta Road addresses.

7.5 NWI Mapped Wetlands

As indicated in the Physical Setting Source table of Section 4.1, no NWI mapped wetlands areas were depicted at the Property by the EDR Geospatial-Physical Setting Source Addendum (attached in Appendix E).

The scope of work for this assessment excludes a visual determination of regulated wetlands at the Property. It is emphasized that, regardless of the wetlands data obtained via the EDR Geospatial-Physical Setting Source Addendum, a delineation of regulated wetlands by a qualified professional would be warranted to determine the presence or absence of regulated wetlands at the Property.

7.6 Lead in Drinking Water

The scope of work for this assessment included a review of the potential for elevated levels of lead in drinking water by determining the source of the drinking water supply and a review of available compliance or testing data.

Potable water service at the Property is provided by a utility connection with Easter Municipal Water District and a private well located by the Property at 26300 Murrieta Road, and 25981 Elm Street.

8.0 REFERENCES

ASTM E1527-13-Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process; ASTM International, 2013

ASTM E12600-15-Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction, ASTM International, 2015

EDR Radius Map Report with GeoCheck™, Environmental Data Resources, 2021

EDR City Directory Abstract Report, Environmental Data Resources, 2021

EDR Sanborn Map Report, Environmental Data Resources, 2021

Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources; A. Buonicore, 2011

9.0 APPENDICES

Appendix A	Site Diagram / Vicinity Map
Appendix B	Site Photographs
Appendix C	Questionnaires / User Provided Information
Appendix D	Historical Records Documentation
Appendix E	Regulatory Records Documentation
Appendix F	Other Documents / Lab Results
Appendix G	Project Personnel Qualifications

APPENDIX A
MAPS / DIAGRAMS



Site



Figure 1: Site Vicinity Map

West of Murrieta Road and East of Geary Street
Menifee, California

N



SCALE: (NOT TO SCALE)

PROJECT No.: C3-8430



Figure 2: Site Diagram

West of Murrieta Road and East of Geary Street
Menifee, California

N



SCALE: (NOT TO SCALE)

PROJECT No.: C3-8430

APPENDIX B
SITE PHOTOGRAPHS

SITE PHOTOGRAPHS



View of Property looking north



View of Property looking northwest



View of west portion of the Property



View of soil stockpiles on the west side of the Property



View of stockpiles of soil with building materials observed on west side of the Property



View of pile of building materials

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

Project No.:

C3-8430



HILLMANN
CONSULTING

SITE PHOTOGRAPHS



View of Elm Street that run through the center of the Property



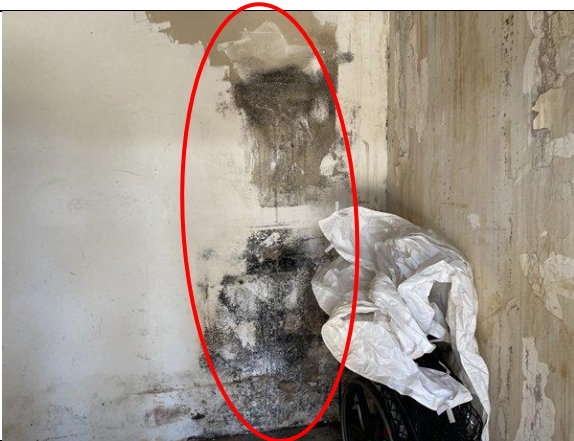
View of pole mount transformer along east side of the Property along Murietta Road



View of 26429 mobile/manufactured home to the west side of the Property



View of outbuilding- used for storage by rear side of 26429 building



View of mold observed at the interior of the outbuilding



View of southwest portion of the Property

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

Project No.: C3-8430



HILLMANN
CONSULTING

SITE PHOTOGRAPHS



View of empty 55-gallon drums and trash storage observed



View of empty 55 gallon drums – located on southwest side of the Property



View of horse storage area



View of garage - tools storage



View of the 26399 mobile home building to the north side of the Property along Murrieta Raod



View of the waterwell

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

Project No.:

C3-8430



SITE PHOTOGRAPHS



View of rear side of 26399 building



View of septic system at rear side of 26399 address with two empty 55-gallon drums



View of another residential building by 26399 building



Interior view of the residential building



View of storage shed by 26399 building



Interior view of storage shed

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

Project No.:

C3-8430



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SITE PHOTOGRAPHS



View of oil stains - *de minimis* observed on rear side of the residential building 26399 Murietta Road



View of Property looking west – 25931



View of mobile homes at 25931 Elm Street



View of storage shed to the east at 25931 Elm Street



View of waterwell



View of storage/workshop area

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

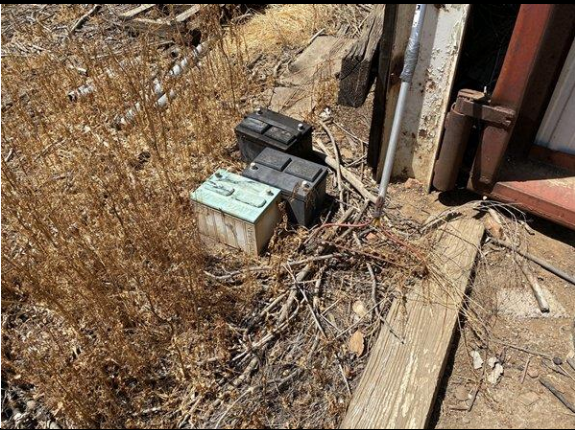
Project No.:

C3-8430



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SITE PHOTOGRAPHS



View of batteries stored on the ground



Additional view of wood workshop area



View of mold



Rear side view of the mobile homes with additional out building storage sheds and above-ground pool



View of 5-gallon container of liquid fertilizer, paint, and aerosol



View of the Property – 25981 Elm Street

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

Project No.:

C3-8430



SITE PHOTOGRAPHS



View of water well located on west side of the residential building at 25981 Elm Street



View of former grow area located rear side of Property



View of storage container located on rear side of the Property



View of septic system located on southside of the Property



View of empty 55-gallon drum



View of soil stockpile observed in front of the residential building - not native to the Property

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

Project No.:

C3-8430



SITE PHOTOGRAPHS



View of gasline easement to the east of the Property facing west



View of pad mount transformer along Elm Street



View of south adjoining property



View of Property across to the west



View of the east adjoining property across Murrieta Road

PHASE I ESA - SITE PHOTOGRAPHS

West of Murrieta Road and East of Geary Street,
Menifee, California

Project No.:

C3-8430



HILLMANN
CONSULTING

APPENDIX C

QUESTIONNAIRES/USER PROVIDED DOCUMENTATION



ASTM E 1527-13/AAI - USER QUESTIONNAIRE

Instructions: This form should be completed by a representative of the USER of the Phase I ESA report and returned to Hillmann via email or in-person. **The report USER is the entity on whose behalf the assessment is being prepared and that will be relying on the report for liability protections.**

In order 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”), 188 the USER must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that “all appropriate inquiries” is not complete. Please complete the following questionnaire and provide any of the referenced information (if available) to Hillmann.

USER Company Name:		USER Mailing Address:	
Respondent Name & Email Address:		Date of Completion:	

Property Address:	YES	NO	DETAIL (optional):
Environmental liens that are filed or recorded against the property: Did a search of recorded land title records identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?			
Activity and use limitations that are in place on the property or that have been filed or recorded against the property: Did a search of recorded land title records (or judicial records where appropriate, identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?			
Specialized knowledge or experience of the person seeking to qualify for the LLP: 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?			
Relationship of the purchase price to the fair market value of the property if it were not contaminated: 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?			



HILLMANN
CONSULTING

Property Address:	YES	NO	DETAIL (optional):
Commonly Known or Reasonably Ascertainable Information: 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? <u>ANSWER BELOW</u>			
- Do you know the past uses of the property?			
- Do you know of specific chemicals that are present or were once present at the property?			
- Do you know of spills or other chemical releases that have taken place at the property?			
- Do you know of any environmental cleanups that have taken place at the property?			
The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation: Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?			
Litigation/Administrative Proceedings/Government Notices As the User of this ESA, do you have knowledge of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.			

Additional Details, if applicable:

APPENDIX D

HISTORICAL RECORDS DOCUMENTATION



MURRIETA RD

MURRIETA RD

Menifee, CA 92585

Inquiry Number: 6489730.8

May 12, 2021

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Site Name:

MURRIETA RD
 MURRIETA RD
 Menifee, CA 92585
 EDR Inquiry # 6489730.8

Client Name:

Hillmann Environmental Co.
 1745 W Orangewood Avenue
 Orange, CA 92868-0000
 Contact: Shilpa Sunil



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1997	1"=500'	Acquisition Date: January 01, 1997	USGS/DOQQ
1994	1"=500'	Flight Date: June 01, 1994	USGS
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1978	1"=500'	Flight Date: September 20, 1978	USDA
1974	1"=500'	Flight Date: November 06, 1974	USGS
1967	1"=500'	Flight Date: May 15, 1967	USDA
1961	1"=500'	Flight Date: June 14, 1961	USDA
1953	1"=500'	Flight Date: August 28, 1953	USDA
1949	1"=500'	Flight Date: May 08, 1949	USDA
1938	1"=500'	Flight Date: June 14, 1938	USDA

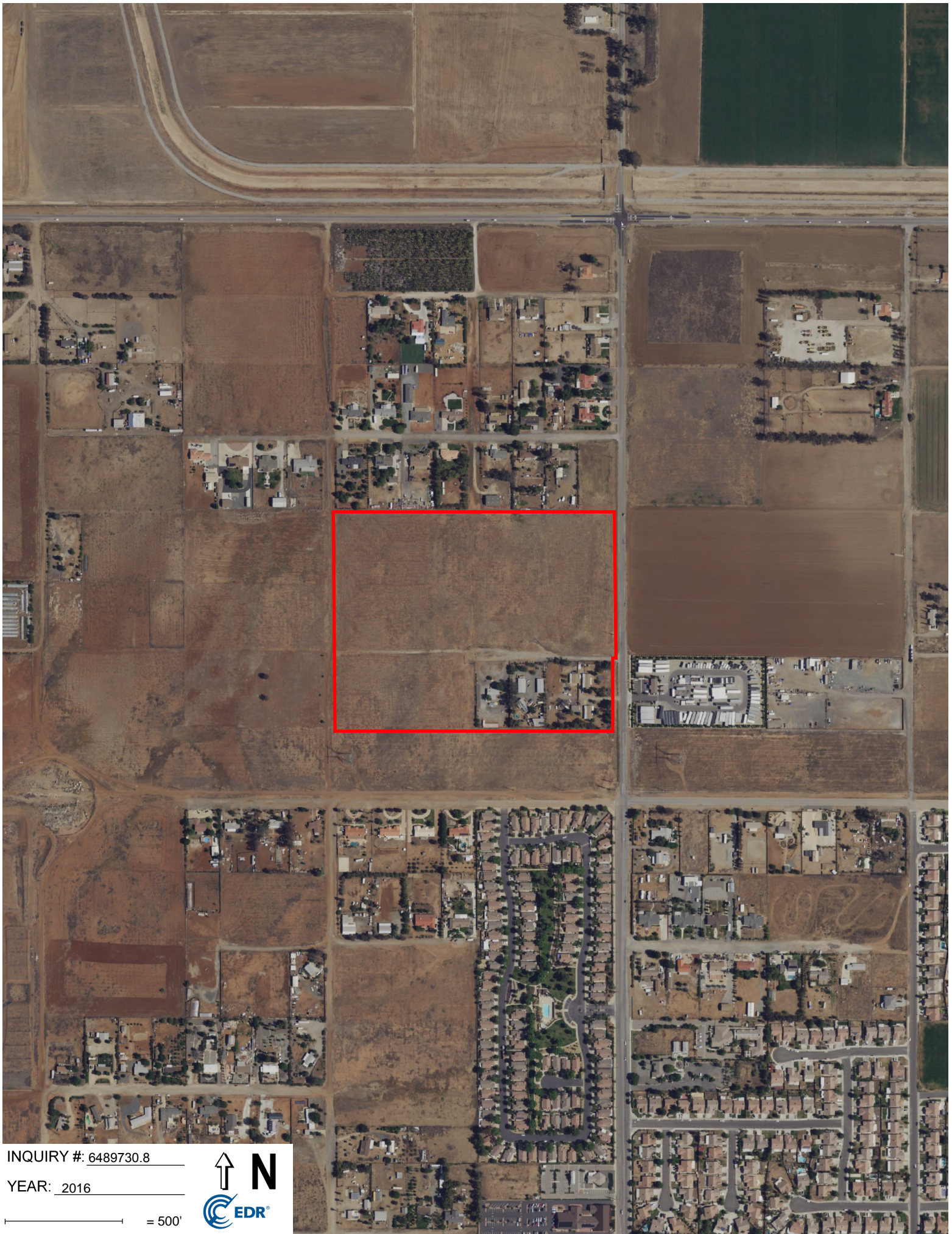
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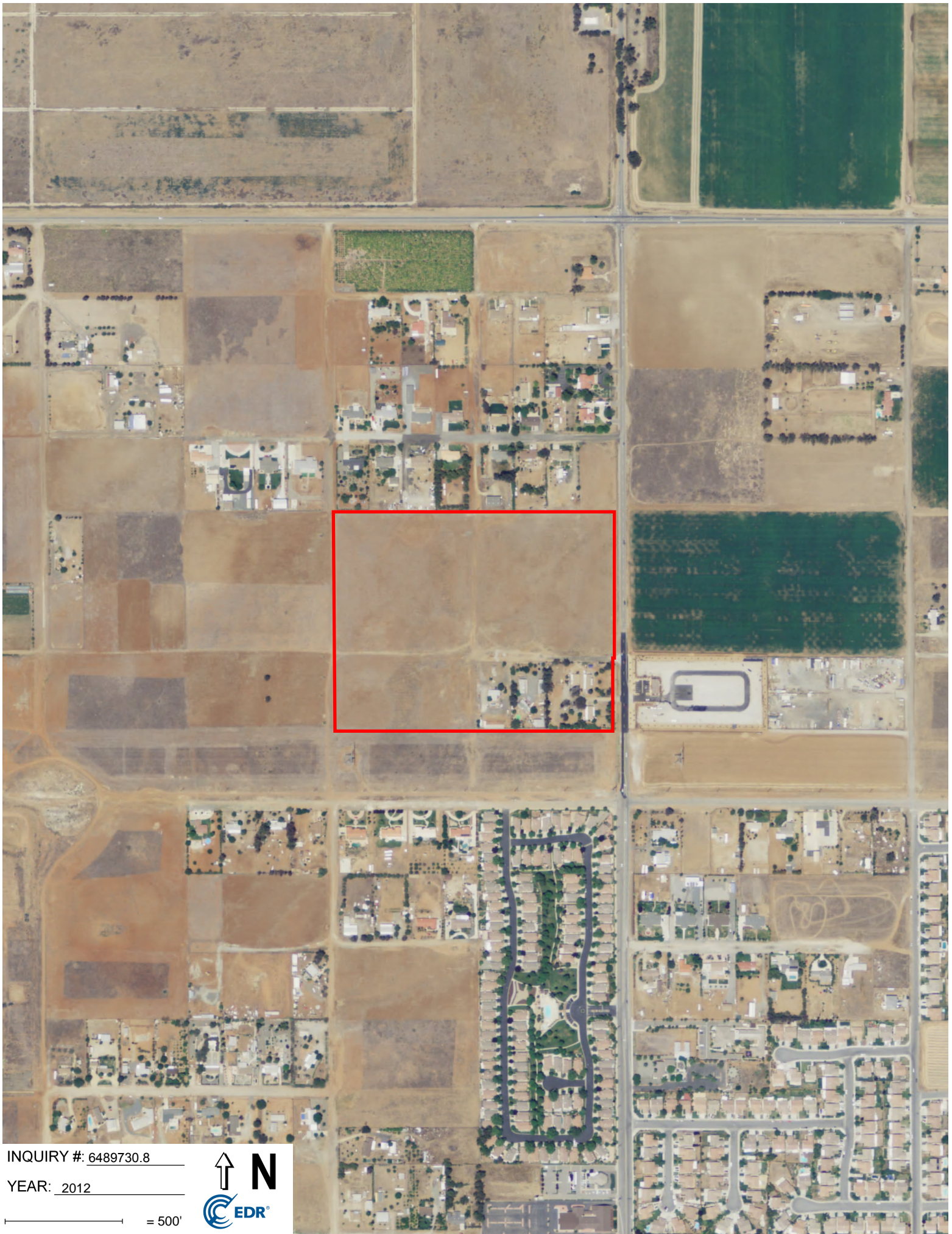


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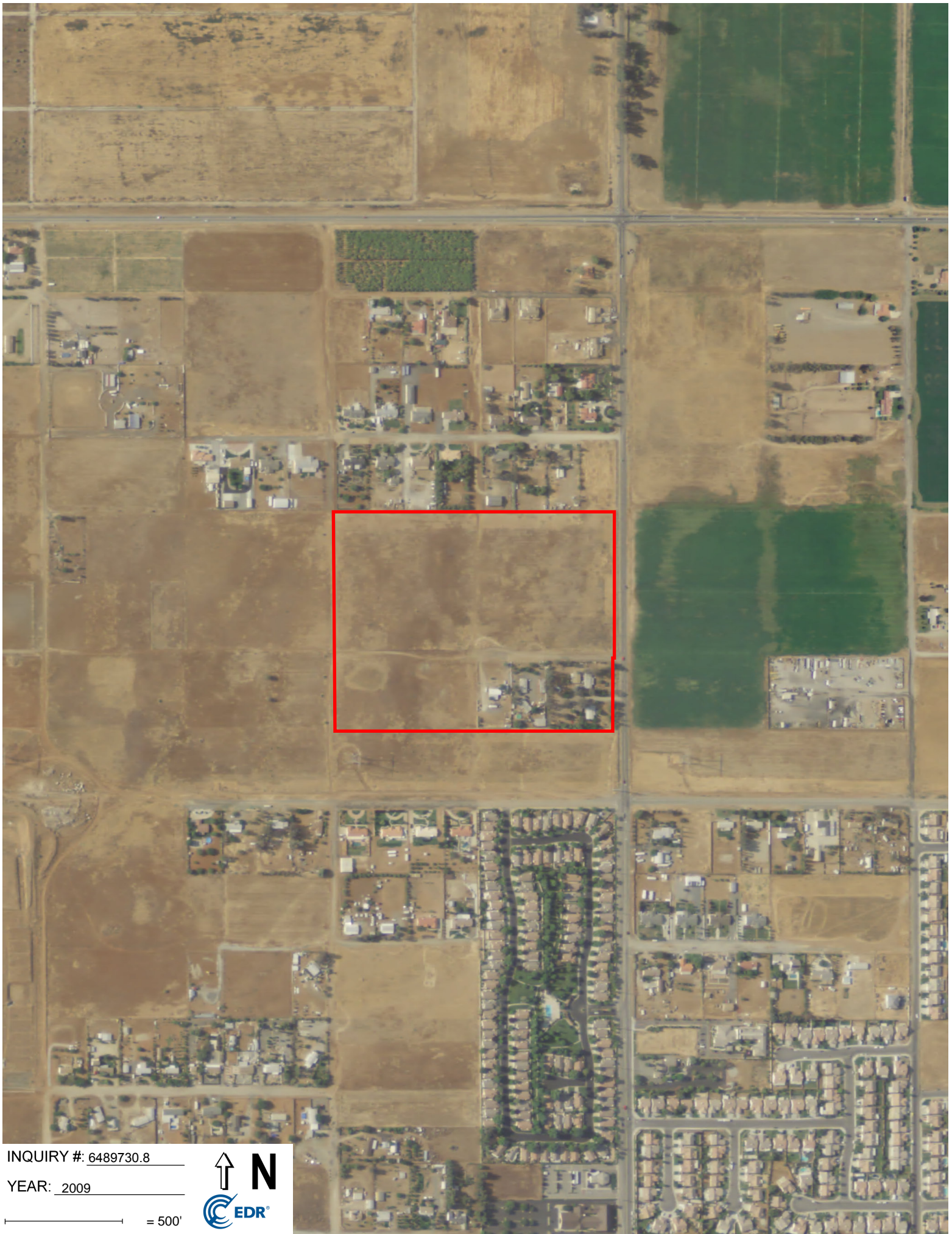


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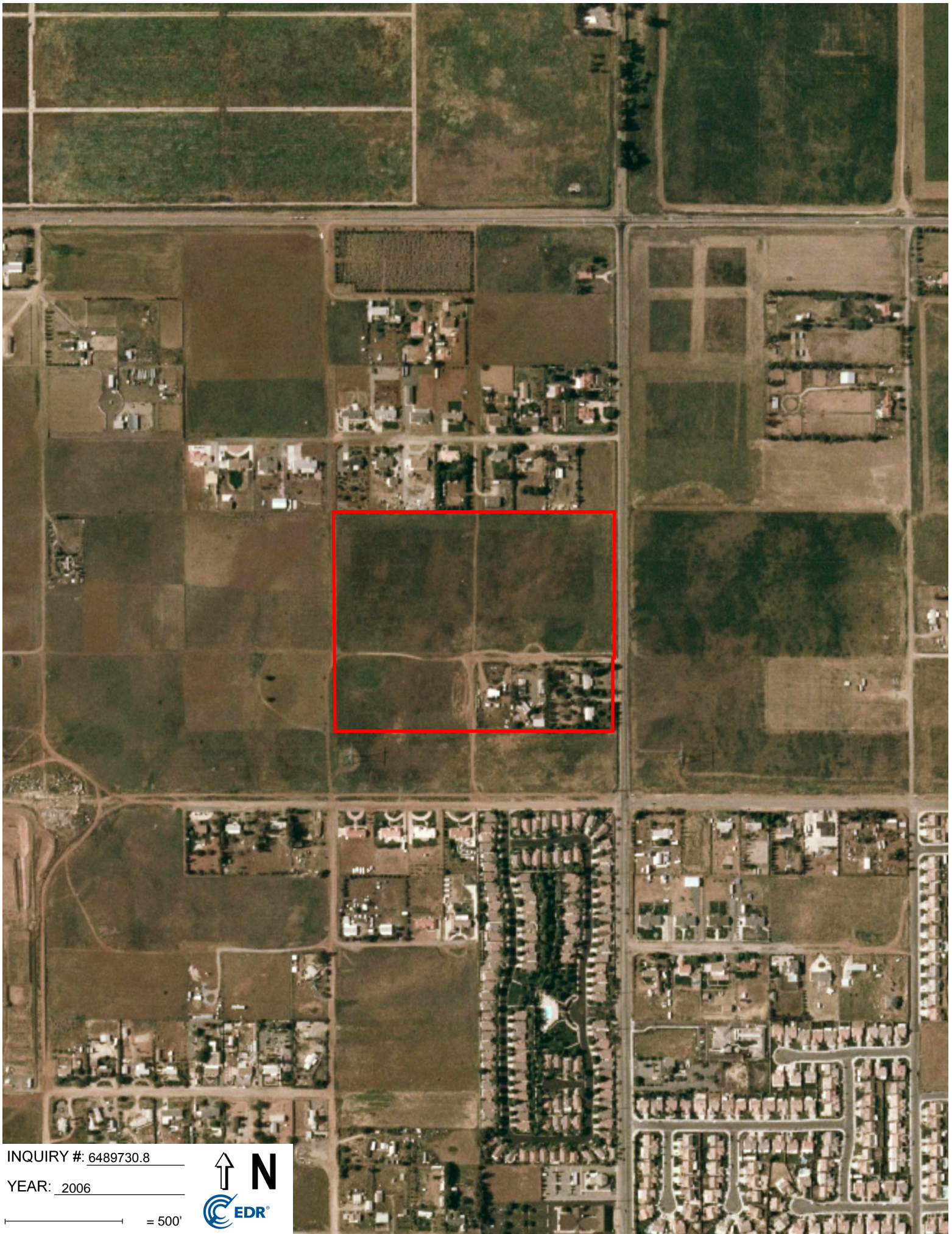


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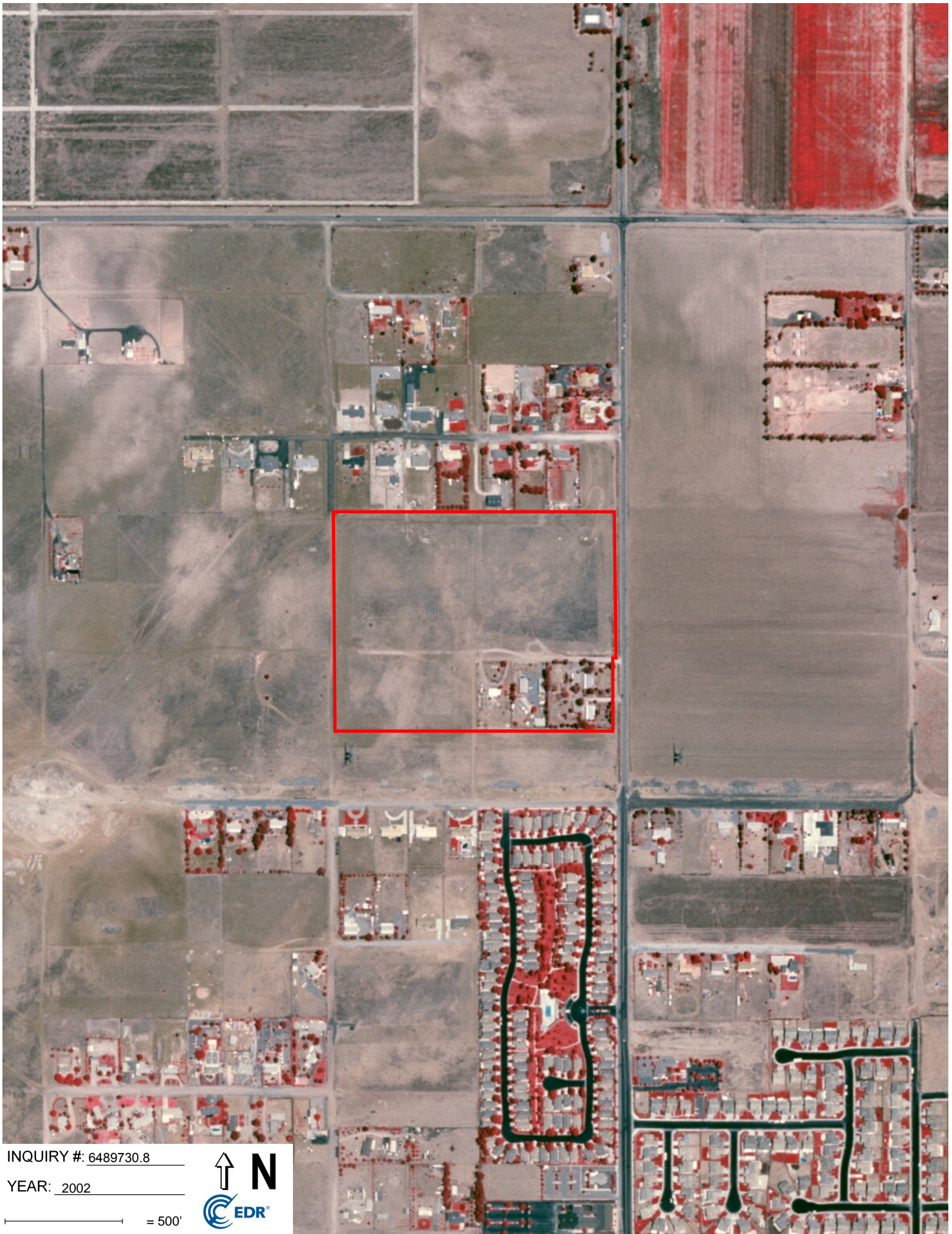


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YEAR: 2002

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YEAR: 1997

— = 500'



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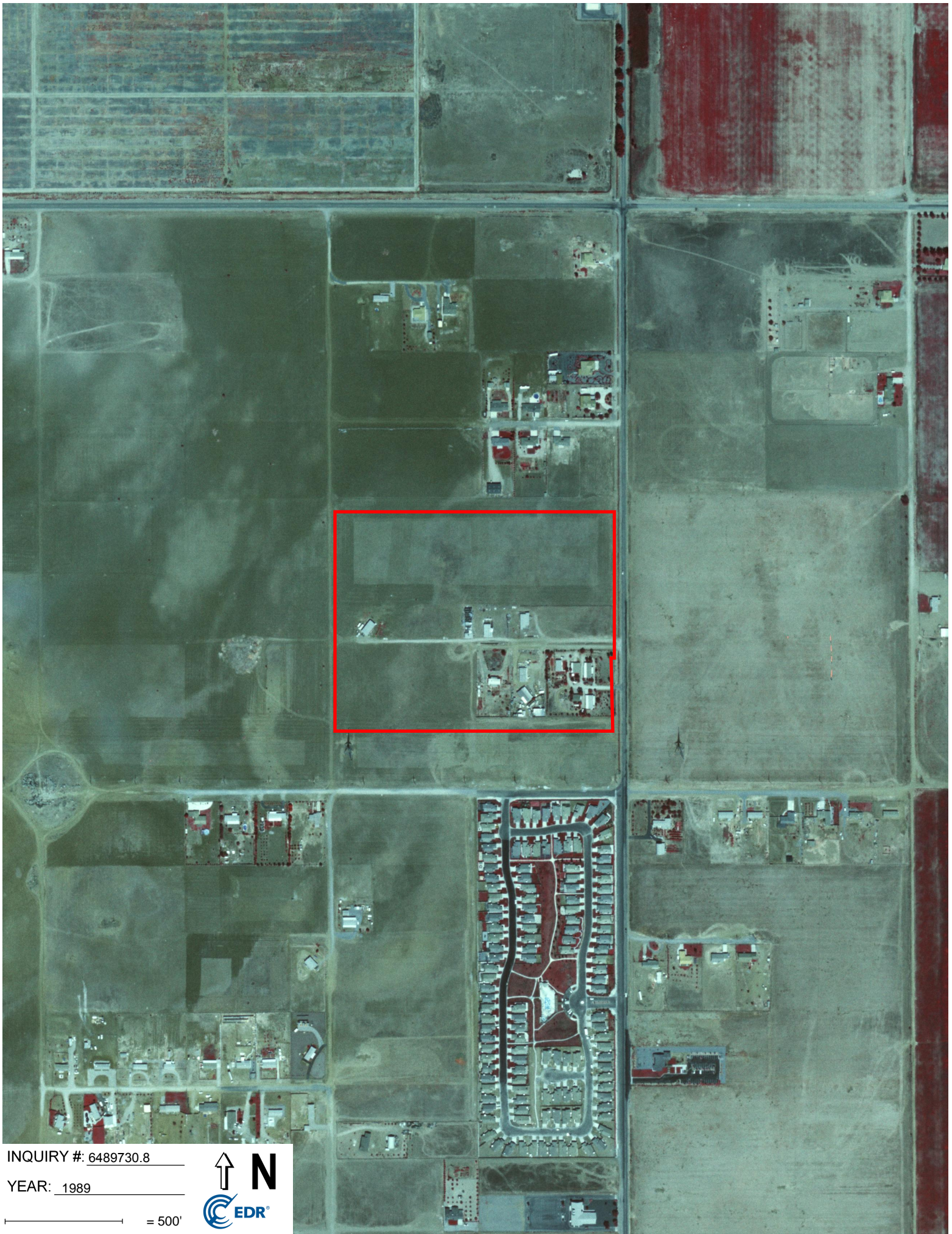


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INQUIRY #: 6489730.8

YEAR: 1989

— = 500'





INQUIRY #: 6489730.8

YEAR: 1985

— = 500'



USDA

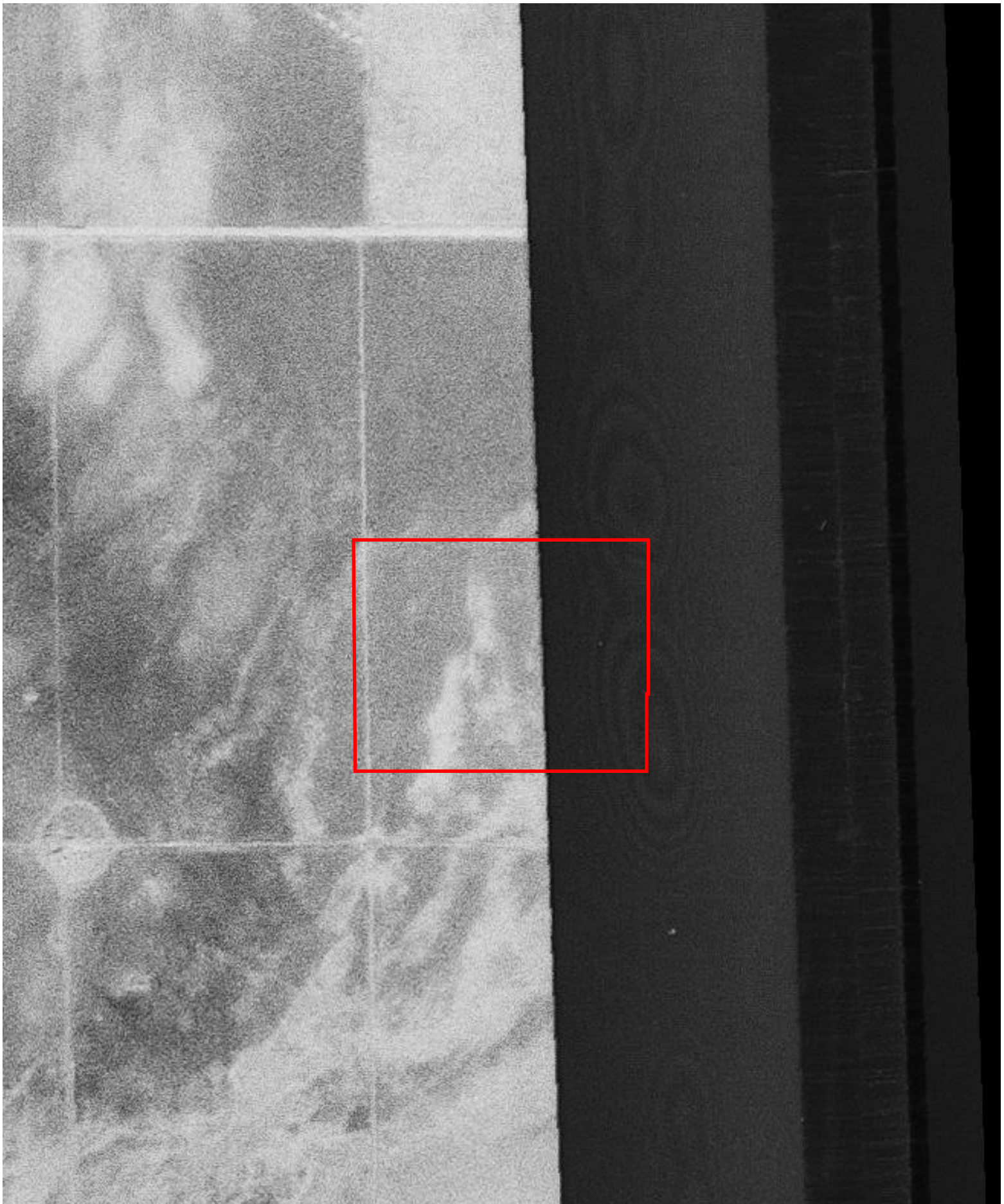


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YEAR: 1974

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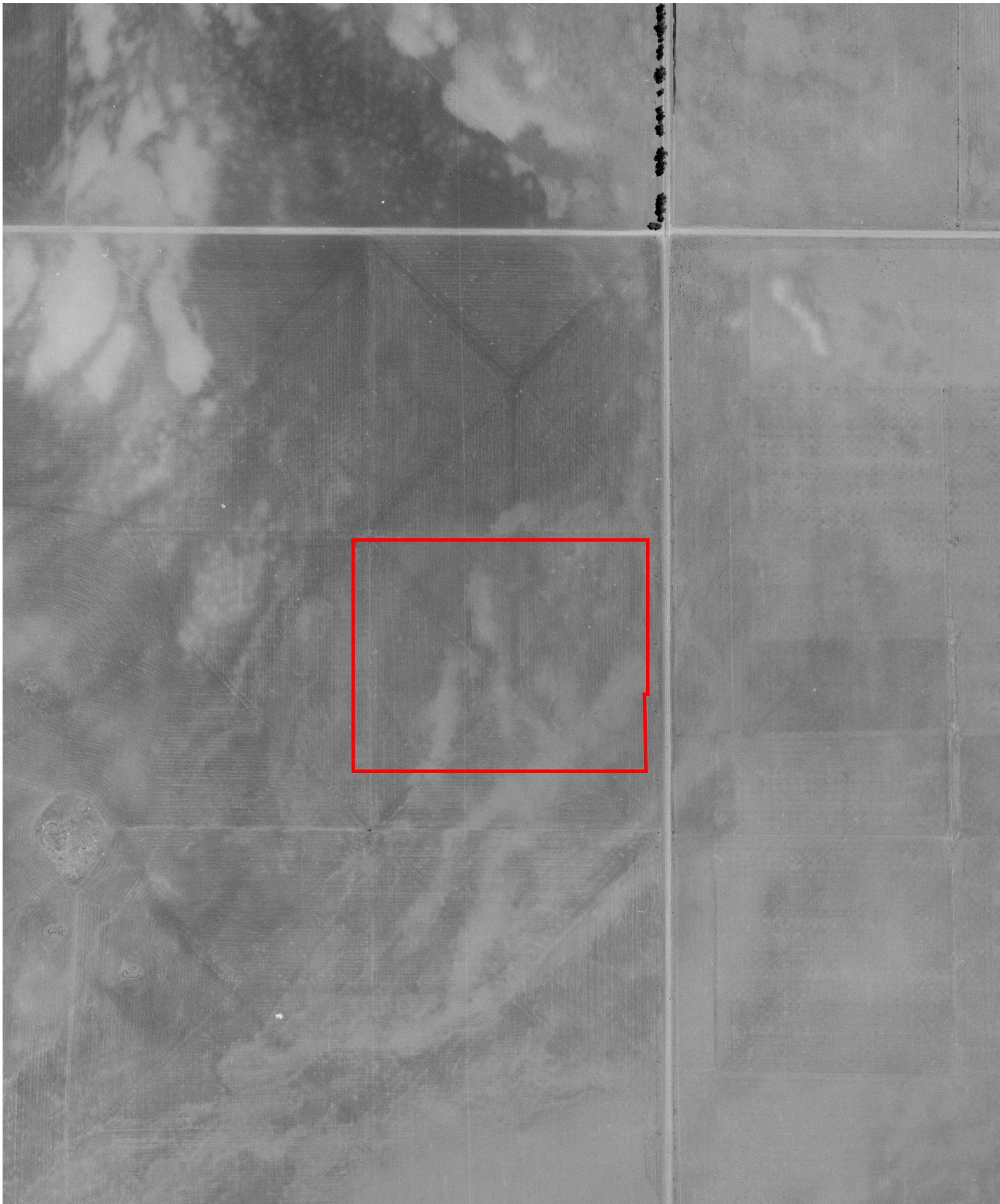


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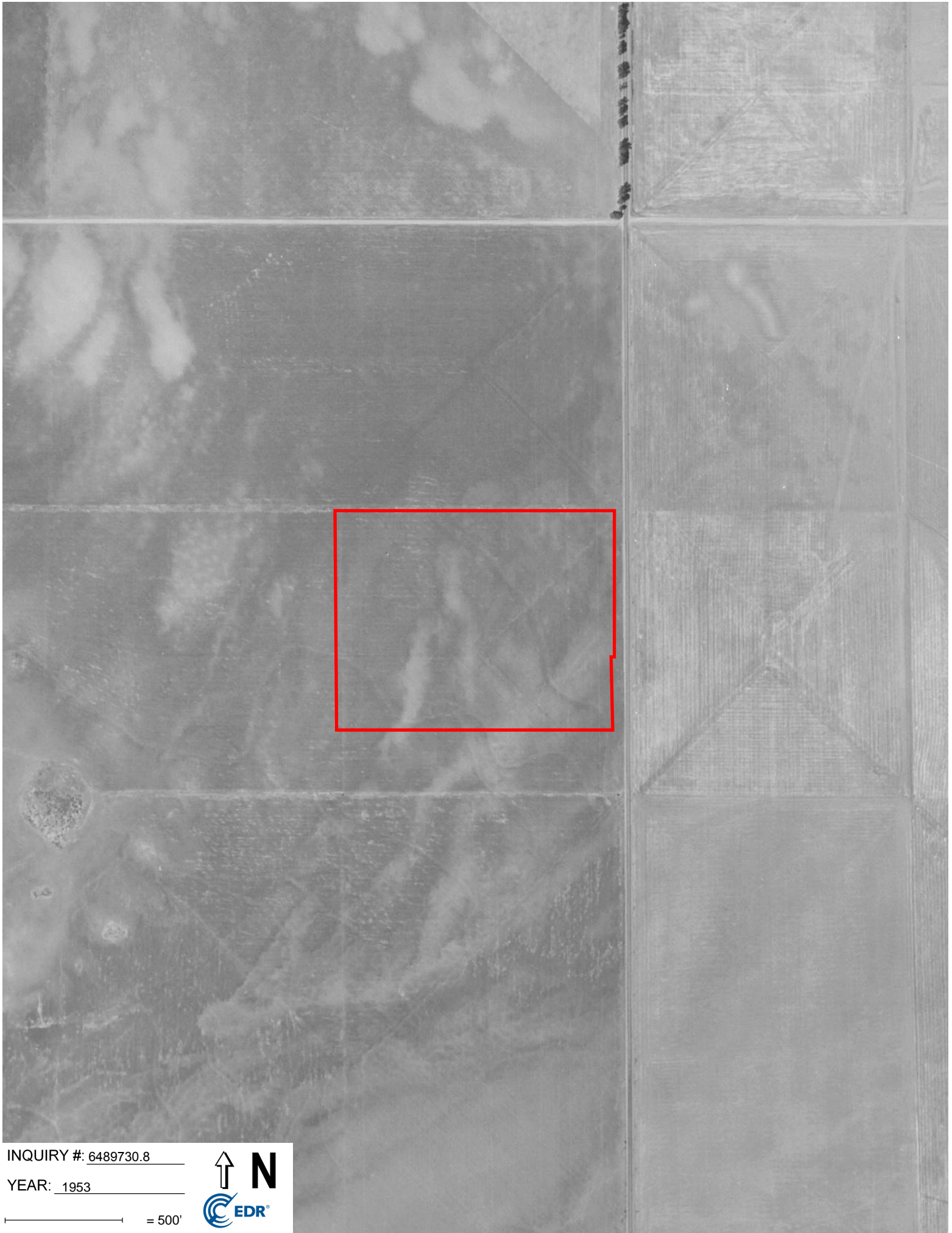


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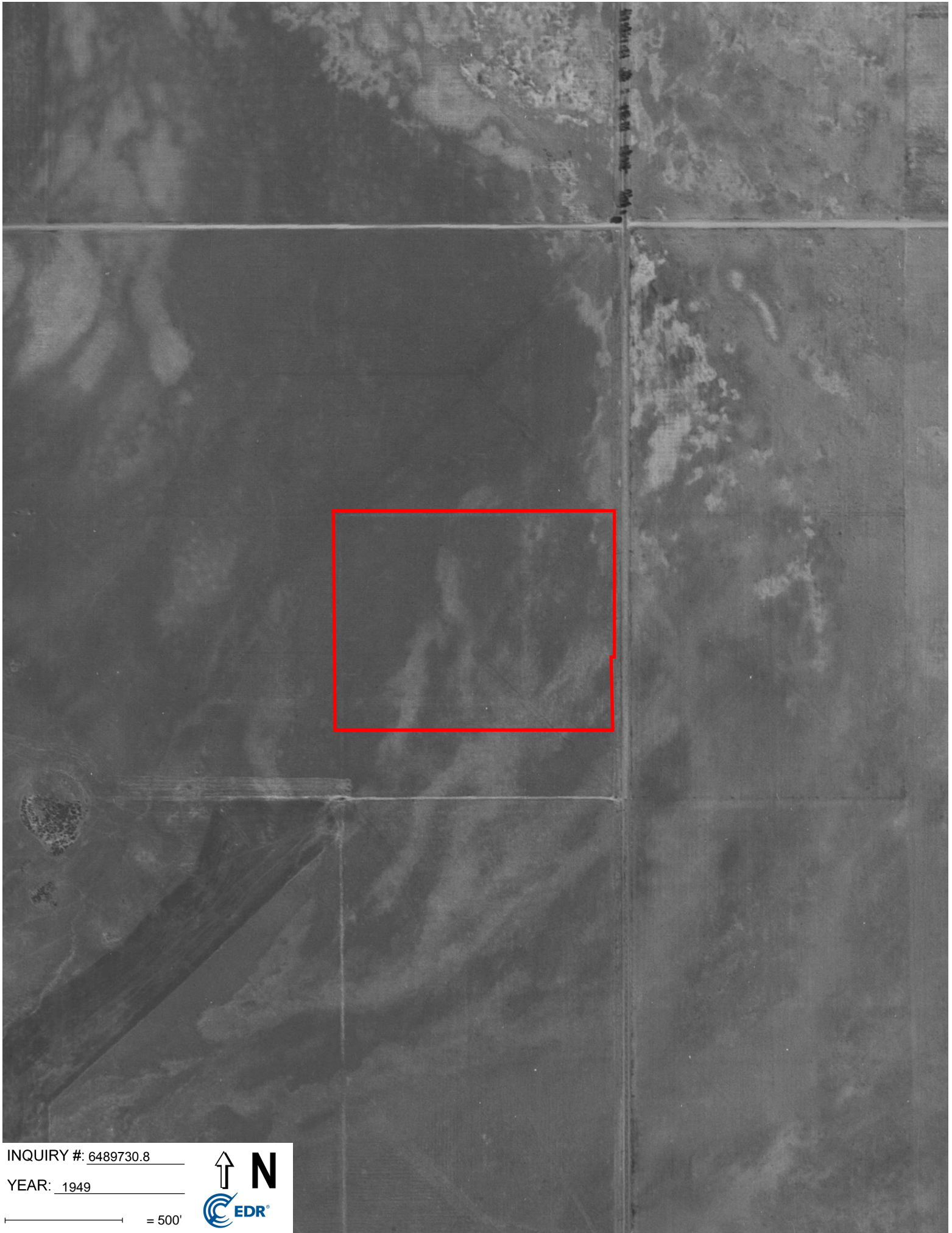


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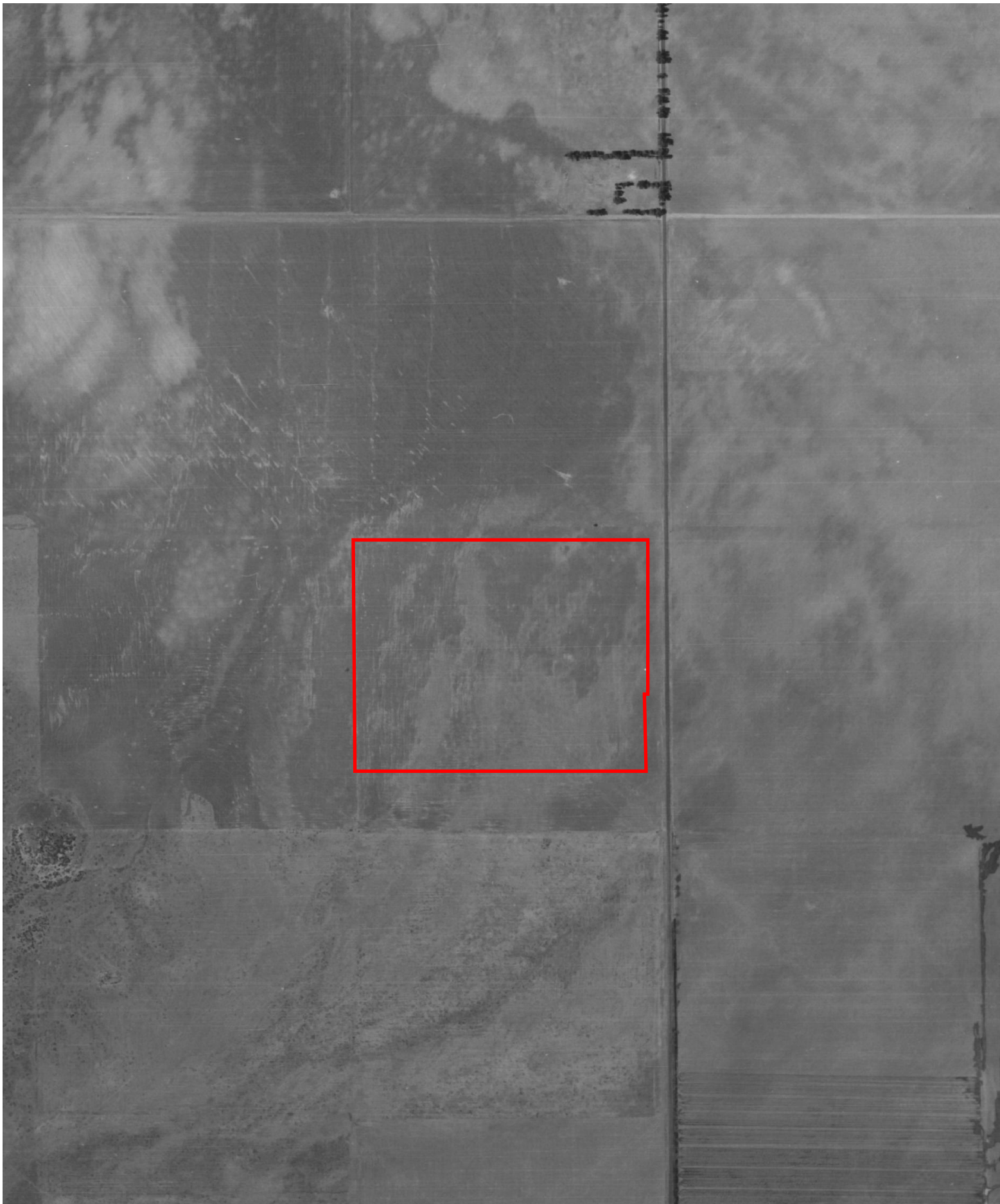


INQUIRY #: 6489730.8

YEAR: 1949

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INQUIRY #: 6489730.8

YEAR: 1938

 = 500'



MURRIETA RD
MURRIETA RD
Menifee, CA 92585

Inquiry Number: 6489730.10
May 14, 2021

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

infoUSA[®]

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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.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
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2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1980	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1976	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1971	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

MURRIETA RD
Menifee, CA 92585

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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MURRIETA RD

2017	pg A1	EDR Digital Archive	
2014	pg A2	EDR Digital Archive	
2010	pg A3	EDR Digital Archive	
2005	pg A4	EDR Digital Archive	
2000	pg A5	EDR Digital Archive	
1995	pg A6	EDR Digital Archive	
1992	pg A9	EDR Digital Archive	
1985	pg A10	Haines Criss-Cross Directory	
1985	pg A11	Haines Criss-Cross Directory	
1985	pg A12	Haines Criss-Cross Directory	
1980	pg A13	Haines Criss-Cross Directory	
1980	pg A14	Haines Criss-Cross Directory	
1980	pg A15	Haines Criss-Cross Directory	
1976	pg A16	Haines Criss-Cross Directory	
1976	pg A17	Haines Criss-Cross Directory	
1971	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

MURRIETA RD 2017

26075 VALENTINE, JAMES D
26105 MCWATERS, MARVIN M
26135 KING, TANYA L
26145 MURILLO, RUBEN H
26399 MARTINEZ, GRACIELA
26414 PACIFIC MOBILE STRUCTURES
26429 ESPEJEL, FAVIAN
26510 MARDIN, FLORA E
26704 LEARNING TREE PRESCHOOL
26770 MILLERJONES MORTUARY & CREMATORY
26805 CENTER FOR SPIRITUAL LIVING
26815 MENIFEE BIBLE CHURCH
27347 TANNER, JEFFREY A
27437 MENIFEESTORAGECOM
UHAUL
USTOREIT

MURRIETA RD 2014

26041 PERCIVAL, BRENT
26105 MCWATERS, MARVIN M
26135 OCCUPANT UNKNOWN,
26145 MURILLO, RUBEN H
26399 ENRIQUEZ, VALENTIN
26414 PACIFIC MOBILE STRUCTURES
26429 ESPEJEL, FAVIAN
26704 LEARNING TREE PRESCHOOL
RIVERSIDE COUNTY COALITION FOR ALTER
ST STEPHENS EPISCOPAL CHURCH
26770 MENIFEE VALLEY MEMORIAL PARK
MILLER JONES MORTUARY
MILLERJONES
MILLERJONES MORTUARY & CREMATORY
26805 CENTER FOR SPIRITUAL LIVING
26815 MENIFEE BIBLE CHURCH
27259 SWARTWOOD, GAIL
27347 INZUNZA, RAQUEL
27437 UHAUL
USTOREIT

MURRIETA RD 2010

26041 PERCIVAL, BRENT
26075 SCHMIDT, ROBERT E
26105 MCWATERS, MARVIN M
26135 GALEY, DAVID W
26145 MURILLO, RUBEN H
26399 ENRIQUEZ, GUADALUPE
26510 MARDIN, FLORA E
26704 LEARNING TREE PRESCHOOL
ST STEPHENS EPISCOPAL CHURCH
26770 MENIFEE VALLEY MEMORIAL PARK
26805 CENTER FOR SPIRITUAL LIVING
26815 MENIFEE BIBLE CHURCH
27347 DURHAM, RANDAL
27437 USTOREIT

MURRIETA RD 2005

26041 PERCIVAL, BRENT
26135 GALEY, DAVID W
26145 MURILLO, RUBEN H
26399 ROMERO, ROBERTO L
26429 LOPEZ, JOSE
26510 FUHRMANN, OSCAR J
26770 MENIFEE VALLEY MEMORIAL PARK
26805 CHURCH OF TODAY SCIENCE CHURCH
26815 SUN CITY BIBLE CHURCH
27285 BLOSSOMS TOO
27347 DURHAM, RANDAL
27437 BUDGET
U STORE IT

MURRIETA RD 2000

26135 GALEY, DAVID
26145 DICLEMENTE, NANCY
26399 GARDNER, JERRY
26429 OCCUPANT UNKNOWN,
26510 FINISHING TOUCHES
FUHRMANN, OSCAR J
26704 ST STEPHENS EPISCOPAL CHURCH
26770 CREMATIONS MILLER JONES MORTUARY & CREMATORY
MILLER JONES MORTUARY & CREMATORY
MORTUARY MILLER JONES MORTUARY & CREMATORY
26805 SUN CITY CHURCH OF RELIGIOUS SCIENCE & METAPHYSICAL BOOKSTO
26815 SUN CITY BIBLE CHURCH
26975 WESTERN PINES
27225 AFFORDABLE TREES & SHRUBS
27285 AFFORDABLE TREES & SHRUBS
SHADE NURSERY
27437 ASSURED MINI STORAGE
BENJAMIN, LEE
U STORE IT

MURRIETA RD 1995

26510 FINISHING TOUCHES
FUHRMANN, OSCAR
26770 MILLER JONES MORTUARY & CRMTRY
26975 WESTERN PINES
27250 AXEL, WILLIAM J
BARBRE, C
BLONDELL, LILA
BOCKSTADTER, E A
BOSKLOPPER, JACOB
BRIEN, ROBERT L
BYHRING, RAYMOND
CARLSON, ELLIOTT B
CHAMBERLIN, HAROLD M
CHEESEMAN, JAMES
CLIFFORD, EDWARD
COURTNEY, WALTER
CRAMER, LUCILLE
CRANFORD, LUCY L
CULLEN, M
DAINE, ROBERT E
DIEKMANN, R F
DOWNING, MAXINE
ENGLAND, DON
FARQUHAR, ELBERT
FISHBURN, E J
FISHER, DOROTHY
FLETCHER, R W
FOGARTY, PETER H
FORREST, PAUL
FORTE, JOSEPH
HAGEN, D
HAMILTON, DOYLE
HAND, RICHARD
HARDIN, ERNEST R
HARKEY, HUGH
HARVEY, K
HENICK, JOHN B JR
HENNEMANN, C T
HERLICH, GUS
HINDS, MERLIN
HINKEL, VERNON J
HOOD, GRANT
INGEL, EUGENE
KAMINSKY, L R
KNERR, RALPH E
KOCH, FRANK
KOLANOWSKI, GEORGE
KRIDER, JOHN
KROGH, ROBERT E
LAVERY, JOHN

MURRIETA RD 1995 (Cont'd)

27250 LEACH, JAMES
LEBRESCU, HERBERT
LEIGHLITER, SARAH F
LEONE, JOSEPH
LITTLE, JIM
LITTRELL, JAMES K
LUQUE, M O
MALONEY, JOHN L
MANALATOS, BETTY
MANALATOS, PAUL
MCCOIN, R W
MELLINGER, M
MESCHON, THEADOR C
MICHAUD, STANLEY J
MILLER, JACK
MILLER, JOHN
MILNE, MERLE H
MONICA, R
MORAN, HOWARD
NACHTSHEIM, L
OLIVER, E
PETERSON, JOHN
PLUNKETT, ELMER E
POTEET, GLENN
POWELL, RICHARD A
PROVOST, FRANK
PUGH, ROBERT
RICH, TED
ROLLOG, K W
RUEFF, ARMAND
RUTHERFORD, FRANK
RYKS, JOHN
SAYRE, M
SCOTT, DAVID M
SHURTZ, WILLARD
SLEETH, MIRIAM
SLIGH, MARTINE
SLY, WILLIAM T
SMITH, HENRY E JR
SMITH, LEONE M
SPENCER, FRED
STEVENS, VELENE
STONE, L M
SWITZER, L
SYLVESTRR, THOMAS
TAMBLYN, LETA
THORN, ALVIN P
TRUDEAU, ROSAIRE
VERNON, VICTOR A
VOBECKY, LUDEK



-

MURRIETA RD 1995 (Cont'd)

27250 WRIGHT, CLAY W
27437 ASSURED MINI STORAGE

MURRIETA RD 1992

26510 FINISHING TOUCHES
26704 ST STEPHENS EPSCPL
26770 MORTUARY MILLER
26815 SUN CTY BIBLE CH
26975 WESTRN PINES
27285 MOUNTAIN VW NURSERY
27437 ASSURED MINI STRG

MURRIETA RD 1985**MURRIETA RD 92381
SUN CITY**

25975	MARTINEZ JOE	657-1576	4
26399	RAINIER FRANK	657-5026	3
26429	ROGERS HARRY	657-6941	2
26510	FINISHING TOUCHES	679-0338	3
	FUHRMANN OSCAR	679-0868	3
26815	PARKHILL CLAUDE REV	679-8753	3
	SUN CITY BIBLE CH	679-8753	3
26833	XXXX	00	
27250	XXXX	00	
27285	MOUNTAIN VW NURSERY	579-0331	3
27449	XXXX	00	
27601	ABBAY GENEVIEVE	679-5713	+5
27701.....	HILLSIDE MBL HM PK		
	ALLEN LEONARD J	679-1981	0
	APAMIAN LENA	679-4212	0
	APPLEGATE CECIL H	679-7538	9
	BAIR W V	679-9712	1
	BARNES WM	679-4117	4
	BARONE LAWRENCE J	679-5984	0
	BARRIE J	679-0124	+5
	BARTON HERSCHEL	679-7928	0
	BEAL HAROLD	679-6913	+5
	BENNETT DONALD R	679-6390	2
	BENNETT HARRY	679-6784	0
	BERENTSCHOT J M REV	679-5906	2
	BERG WALTER	679-8932	1
13	BILPUSCH A B	679-6110	6
	BOVELL BILL	672-1136	4
	BOWMAN JACOB J	672-1486	4
	BOYER LEON	679-8993	4
	BRAND M JOHN	679-1292	+5
	BRENNER J J	679-7690	0
	BRETHOUR IRA	679-9283	0
	BUCHER HARRY	679-0925	4
	BUCKALLEW ROLLIE	679-1988	+5
	BURTON LEONARD T	679-2582	+5
	CALIFORNIA FRANK	679-7692	+5

MURRIETA RD 1985

Table with columns for MURRIETA RD, 92381 CONT, and MURRIETA RD, 92381 CONT. Lists names and addresses for various residents.

MURRIETA RD 1985

MURRIETA RD		92381 CONT
30485	XXXX	00
30530	WARD DAVID F	679-2560
30670	WAREN EDD	679-6446 2
30720	MCKAY GERALD L	679-5247 9
30730	BONZI DOZER	679-7019 4
	HARRISON GARY	679-5820 4
	HARRISON GARY	679-7019 4
30850	HAVERSTOCK ED	679-0767 +5
30901	XXXX	00
30983	CRAIL B J	679-7160 2
	PASS RANCH	679-9674 1
31045	COKE JACK	679-8507 +5
31115	GILDENS DIGGING SRV	679-7705 9
	ROWLES LAMOYNE	679-7705 9
31135	ANDREWS STEVE	679-2454 4
	STEVES TOWING SERV	679-4818 +5
31161	XXXX	00
31265	J&A MCGRATH ATO RPR	679-5559 0
	MCGRATH J&A AUTO SV	679-5559 +5
31285	HARRISON R	672-2521 +5
	S&R EARTH MOVERS	679-2026 +5
31339	SMITH JOLENE	672-2322 4
31355	BREWER OLGA	679-4492 8
31361	GRIEVE GLENN	679-4378 8
31371	MOUNTAIN VW FEED	679-9700 1
	MOUNTAIN VW MARKET	679-1636 +5
31421	HODGE JOHN D	679-9323 2
31497	XXXX	00
31765	XXXX	00
31925	XXXX	00
32231	CHRISTENSEN HERBERT	679-3125
32249	DOORCO	679-3405
32535	VANHOUTEN ROBERT	679-5519 9
32541	ISBELL NICK	679-3275 +5
32545	DREW PAUL W	679-4791 6
32551	CARTER NEAL H	679-4636 8
32701	XXXX	00
32843	XXXX	00
32850	XXXX	00
32905	BEHLING DONALD A	679-1767 6
32935	XXXX	00
★	18 BUS	370 RES 96 NEW

MURRIETA RD 1980

6	MURRIETA RD 92381 SUN		
0	CITY		
6			
	27102	BOURIS MIKE	679-6334 6
	27601	XXXX	00
	27701.....	HILLSIDE MBL HM PK	
5		ALLEN LEONARD J	679-1981 +0
		ANDRUS LEWIS H	679-5913 +0
0		APAMIAN ARMEN	679-4212 +0
0		APLEGATE CECIL H	679-7538 9
		APLEGATE MELINDA	679-7538 9
0		BAKER VERN W	679-2885 +0
0		BARONE LAWRENCE J	679-5984 +0
0		BARTON HERSCEL	679-7928 +0
		BENISH JOS J	679-7757 +0
		BENNETT HARRY	679-6784 +0
0	13	BILPUSCH A B	679-6110 6
9	10	BISH L E	679-7439 9
		BRENNER J J	679-7690 +0
		BRETHOUR IRA	679-9283 +0
	94	BROWN W A	679-5626 9
8	15	CALDWELL ROBERT L	679-5132 8
	39	CANGEMI JOS	679-3688 8
	42	CARSTENSEN BURTON	679-3662 8
		CATCHPOLE MARVIN J	679-5967 +0
		CHAMPION GEO L	679-7052 +0
	30	CHARBONNEAU LOUISE	679-7126 9
		CLEMENT GEO N	679-1721 5
	29	COLE FRANK E	679-1012 9
	23	COLE WILLARD F	679-6353 9
		COLTON SAM L J	679-7626 +0
		COULES VICTOR W	679-4107 +0
		CREIGHTON WM	679-1386 +0
		CUMMINGS H N	679-5397 +0
	96	DAUDET FRANK L	679-6654 7
		DUNSMOOR C PHIL	679-7877 +0
		EBERHART BURRIS	679-9573 +0
7		ENYART LEE E	679-6050 +0
		FENIMORE MARIE	679-9286 +0

MURRIETA RD 1980

MURRIETA RD	92381 CONT.
FEST JUSTIN	679-3685 +0
FLECK WM	679-4875 +0
34 FLEENER J F	679-5474 5
99 FREDERICK R H	679-6085 9
FREEMAN EMMETT	679-2081 +0
22 FRIEND N A	679-5289 9
11 FRIESEN PETER	679-6928 9
GAGER DOYLE R	679-9257 +0
8 GAMSBY AMOS R	679-5371 9
2 GARLAND C B	679-5747 5
GENSCH MILTON G	679-4325 +0
165 GRIFFIN TRUPIE J	679-7545 9
103 HALLEN LEO E	679-7192 9
HARPER CLARENCE A	679-7183 +0
98* HILLSIDE MBLHM EST	679-2317 6
HIMMELBAUER M L	679-6042 +0
HOSKINS GERALD C	679-6276 +0
JAMESON VIVIAN	679-9405 +0
JOHNSON BERTIL	679-4487 +0
KEETER CLINTON W	679-7409 +0
KELHART WM M	679-9262 +0
KENDALL VIRGIL W	679-7401 +0
20 KINGSBAKER GILBERT	679-7260 9
KNUDSEN I	679-3077 +0
KROCHOSKY PAULINE	679-4112 +0
KRONBERG M A	679-4267 +0
LEVINSON J	679-1040 +0
LORD M E	679-1757 +0
21 LUHTALA REINO J	679-3074 9
151 MACEL O J	679-4208 9
81 MACELRATH CLYDE MRS	679-5726 9
MACPHERSON F D	679-7924 +0
MADDOX R E	679-7895 +0
MCCAMBRIDGE FRANK	679-6218 6
33 MCCORD CLARE	679-4812 8
MCGUIRE FRANCIS	679-5396 6
MCNEIL W F	679-7861 +0
MCNISH ED	679-9245 +0
26 MILLER JOHN ED	679-1355 5
35 MILLER WILLIAM P	679-3964 9
MINTZ ABRAHAM	679-9327 +0
MOAG E C	679-9360 +0
36 MORTARA DAN	679-4415 4
38 MORTARA N H	679-4730 4
MOUND ERNEST	679-6397 +0
MUELLER AL	679-7906 +0
MULKERN VEE MRS	679-2562 +0
164 MURPHY OWEN M	679-6451 7
NAVE HAROLD E	679-9239 +0
NYMANN ANTON	679-7665 +0
OGILVIE M L	679-6147 +0
169 OVERBY W G	679-6327 6
PATTERSON D M	679-7454 +0
PILOT WALTER	679-7809 +0
RANKIN RALPH H	679-7680 +0
7 RAUSCHKOLB RUDY	679-6098 +0
REICH R M	679-7920 +0
RICE MARVIN	679-7724 +0
RIENSTRA OTTO	679-3344 +0
ROCKWELL GEO C JR	679-9288 +0
ROLLO J C	679-7846 +0
SABINE KENNETH E	679-7954 +0
SCHRAMMEL RUDY	679-7986 +0
SEITZ A J	679-7121 +0
19 SERTIC ROSE	679-7247 9
16 SHAFFER GENE G	679-5504 8
SHAPEN NICHOLAS	679-9316 +0
SHATTLUCK FRANK L	679-9343 +0
SKARECKY JERRY	679-7942 +0
SMALL EARL	679-9260 +0
170 SMITH HERBERT L	679-5115 8
6 SMITH REED M	679-6931 9
SNODDY SAM T	679-2562 +0
STIKLEATHER WALTER	679-6595 +0
THOMAS AUSTIN	679-7892 +0
THOMPSON BLANCHE	679-7378 +0
166 TOLCHIN PHILIP	679-3147 5
41 UNDERHILL EDDIE	679-7481 9
123 VADNAS NORMAN G	679-1023 9
37 WALKER THOMAS M	679-7457 9
WALTER CHRISTIAN	679-9258 +0
31 WATKINS RICHARD E	679-5433 9
17 WEBER JOHN	679-6139 8
WEIR EDW	679-8639 +0
WEISKE MELVIN J	679-9215 +0
WEYHER ELMER C	679-7804 +0
49 WOODWARD GEO W	679-1910 4
27701	
27800 PATTESON K W	679-3079 7
27812 CARNAHAN HARRY G	679-3522 5
27830 MUELLER CHESTER E	679-5630 6
27844 GATTERER L W	679-5775 5
27860 RAIMONDO JOHN	679-5134 5
27876 OTIS GERALD W	679-4641 5
27890 ALTHER EDW	679-6735 8
27906 RICH M W DR	679-6577 8
27920 BORCHERT D W COL	679-5833 5
279314 STYINCENT FERRER CH	679-4531 6
28018 BURENS G M	679-1921 6
28025 SIMON JOHN	679-3470
28026 FLANAGAN L G	679-9242 +0
28040 LOCKE W L	679-4168 5
28041 LAMAR EVELYN	679-5230 4
28052 VORHES JAS L	679-1862 4
28055 SLAVEN C T	679-6395 8
28066 DURVEE CHAS B	679-6461 7
28071 REDLICH MORRIS	679-4830 6
28080 PELAYO EXIQUIE S	679-6922 8
28085 MASON JOSEPH PAUL	679-6293 9
28094 STOCKTON A W	679-5336
28108 McDONALD THOS A	679-1652 4
28120 MOORE PHOEBE A	679-3275
28141 NEWMAN GEO	679-5539 4
28151 GOLDBERG GEORGE	679-6243 9
28165 WOODARD ETHEL	679-4881
28181 HARGROVE RUSSEL R	679-4653 9
28191 FERMAN ABE	679-4747
28201 FOLLIN STEPHEN F	679-4214 8
28215 SHOEMAKER E W	679-1389
28225 GREENMYRE A L	679-4706
28286 COLLINS ALBERT N	679-2886
28287* TAYLOR R CNCRST CNST	679-7251 9
28306 ANDERSON RICHARD J	679-1266
28307 WEIDEMANN WALTER J	679-4379
28314 SCHNEIDER FRED	679-6306 6
28315 FELTS D V	679-2623
28322 KENEALY ED	679-4506
28323 BERRY F A	679-3535
28376 HOWES OSCAR L	679-2998
28377 JOWTE CLIFTON E	679-1869
28390 CLARK ESTA	679-1088
28391 SCHMIDT ANNA M	679-3483
28406 WALTERS H D	679-1059
28407 PHARO C H	679-1574 6
28420 COLEMAN EDWARD	679-8645 7
28421 SCHNEIDER PAULINE	679-2017 7
28438 KAPLAN BERNARD	679-1646
28439 BANGS JOS L	679-3508
28450 CARLISLE D H	679-1751 5
28451 PIOTROWSKI WM	679-7173 +0
28464 KEHE ALWIN W	679-1557 5

MURRIETA RD 1980

RIVERSIDE		
	MURRIETA RD	92381 CONT.
0	28465 XXXX	00
0	28477 EVRAETS V J	679-4200 7
5	28478 WHITE AUSTIN	679-2487 4
9	28490 HAINES W L	679-2458 4
0	28491 UNDERWOOD FRANK B	679-4592
9	UNDERWOOD W R	679-4592 4
0	28506 NICOLAY F G	679-2090
0	28507 PATON N J	679-4553 8
9	28521 DUNSTON THOMAS L	679-3820 9
5	28536 WADE RALPH E MRS	679-2485 5
0	28537 DAVISON SCOTT M COL	679-4455
3	28546 BAHRS J ROSS	679-1763
3	28547 BAELE CLAYMAN	679-3495
0	28560 ANDREWS EVERETT L	679-1614
5	28561 KUGLER L	679-5542 7
0	28572 HEISLER JOHN	679-2486
0	28573 CHASE NORMAN L	679-1801 8
0	28590 WRIGHT THOS J	679-7931 +0
0	28591 LAMB WALTER K	679-7528 9
0	28604 MILLER GLADYS M	679-3042 8
0	28620 PIERT PETER	679-3888
0	28621 ROLLINS MILO	679-3898
0	28634 HASEMANN ELMER	679-4741
0	28635 MACK CHARLES C	679-7648 9
0	28640 PECHA WM	679-4406
0	28641 RIPLEY FRANK M	679-6305 6
0	28656 LAUSCH B V	679-5108
0	28657 GETZELMAN E	679-3140
0	28670 GREGORY HERBERT C	679-6237 8
0	28671 REID DORIS G	679-3598
0	28684 BUCELLATO JOHN	679-7965 +0
0	28685 XXXX	00
0	28698 TREVORROW GEO A	679-1303
0	28699 LEWIS E	679-5655 7
0	28710 WHITCOMB BENJAMIN	679-5651 6
0	28711 DEVITT O W	679-5500 4
0	28721 CRIDDLE HARRY	679-2505
0	28722 CORDELL HERCHELL R	679-2820 6
0	28738 VACCA JOHN	679-9424 +0
0	28739 SHARPE WM M	679-3743
0	28750 NESS LYLE E	679-9308 +0
0	28751 BONEBRAKE F T	679-2906 7
0	28764 JOHNSON WM O	679-5206
0	28765 MORRIS RALPH E	679-1986 5
0	28777 PATMORE LESTER C SR	679-3590
0	28778 ZIMMER J T	679-7186 9
0	28798 LEBARON BERNARD	679-2484 6
0	28799 BILLINGS ELDRIDGE	679-2169 6
0	28810 LONGACRE LEONARD L	679-4219
0	28811 XXXX	00
0	28824 ZELLER ROSE	679-4554
0	28825 BURNS E L	679-6233 8
0	28838 CONTRERAS A H	679-3792 5
0	28839 LORANG JOHN J	679-4578
0	28850 LUND CHRISTIAN P	679-4639
0	28851 ROBLEY GEO	679-4504 4
0	28864 OLDENBURG HARRY	679-4349
0	28912 HENNINGER WM F	679-3196 5
0	28913 MOORE LOUIS W	679-5225 7
0	28926 WILLARD FRED J	679-1994
0	28927 SCHMOELZER CARL	679-3206
0	28940 MCCURRY JOHN J	679-6125 6
0	28941 RENO W B	679-1235 7
0	30480 PANDZA STEVEN	679-6564 7
0	30485★ G&W TRUCKING	679-6288 9
0	30530 WARD DAVID F	679-2560
0	30720 MCKAY GERALD L	679-5247 9
0	30730 HARRISON KAREN	679-6478 9
0	30983 CRAIL B J	679-7160 9
0	31115★ GILDENS DIGGING SRV	679-7705 9
0	ROWLES LAMOYNE	679-7705 9
0	31135 VIGEANT REAL	679-6672 +0
0	31265★ J&A MCGRATH ATO RPR	679-5559 +0
0	31285 XXXX	00
0	31339 MAGNO GEO E	679-3529
0	31355 BREWER OLGA	679-4492 8
0	31361 GRIEVE GLENN	679-4378 8
0	31371 COUNTRY STORE	679-3611 +0
0	SMITH B B	679-6058 +0
0	31421 DUISCHER H L	679-4142
0	31497 ENGLEHART LARRY A	679-1531
0	31765 RUSSO HENRY	679-7331 9
0	31925 XXXX	00
0	32231 CHRISTENSEN HERBERT	679-3125 4
0	32249★ DOORCO	679-3405 5
0	32535 VANHOUTEN ROBERT	679-5519 9
0	32541 XXXX	00
0	32545 DREW PAUL W	679-4791 6
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MURRIETA RD 1976

MURRIETA RD 92381 SUN CITY

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	27701	...ALPINE ROYAL ESTS	
		BILPUSCH A B	679-6110+6
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	92	CLEMENT GEO N	679-1721 5
5	42	COVINA SAM	679-2541 5
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	34	FLEENER J F	679-5474 5
	2	GARLAND C B	679-5747 5
	16	HASENKAMP W H	679-3760 5
		*HILLSIDE MBLHM EST	679-2317+6
		MARIS H M	679-6112+6
	11	MARKUSZEWSKI M	679-5572 4
5		MCCAMBRIDGE FRANK	679-6218+6
5		MCGUIRE FRANCIS	679-5396+6
	26	MILLER JOHN ED	679-1365 5
5	36	MORTARA DAN	679-4415 4
6	38	MORTARA N H	679-4730 4
		OVERBY W G	679-6327+6
6	81	PEDERSEN EDW	679-5726 5
	81	PEDERSEN THERESA	679-5726 5
4	167	ROTH GLADYS M	679-4942 5
	167	ROTH ROBT A	679-4942 5
5	40	SHERIDAN THOS G	679-5534 4
4	166	TOLCHIN PHILIP	679-3147 5
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6	49	WOODWARD GEO W	679-1910 4
6	27701	
	27800	GREIF OTIS K	679-6318+6
	27812	CARNAHAN HARRY G	679-3522 5
	27830	MUELLER CHESTER E	679-5630+6
6	27844	GATTERER L W	679-5775 5
5	27860	RAIMONDO JOHN	679-5134 5
6	27876	OTIS GERALD W	679-4641 5
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MURRIETA RD 1976

1976	
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27906 HALL WILBUR T	679-2668 5
27920 BORCHERT D W COL	679-5833 5
27931*ST VINCENT FERR CH	679-4531
28018 BURENS G M	679-1921+6
28025 SIMON JOHN	679-3470
28026 WILLEMIN A V	679-2792+6
28040 LOCKE W L	679-4168 5
28041 LAMAR EVELYN	679-5230 4
28052 VORHES JAS L	679-1862 4
28055 RITNER LOUIS	679-1694
28066 WATTS PAUL L	679-6188+6
28071 REDLICH MORRIS	679-4830+6
28080 XXXX	00
28085 THOMPSON C R LT COL	679-4902
28094 STOCKTON A W	679-5336
28106 MCDONALD THOS A	679-1652 4
28120 MOORE PHOEBE A	679-3275
28141 MENMAN GEO	679-5539 4
28151 DUCHER PAUL	679-4749
28165 WOODARD ETHEL	679-6881
28181 REICHER YETTA	679-2692 4
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28225 GREENAMYRE A L	679-4706
28286 COLLINS ALBERT N	679-2886
28287 SMITH R LEE	679-3589
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28307 WEIDEMANN WALTER J	679-4379
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28322 KENEALY ED	679-4504
28323 BERRY F A	679-3535
28376 HOWES OSCAR L	679-2998
28377 JONTE CLIFTON E	679-1869
28390 CLARK ESTA	679-1058
28391 SCHMIDT ANNA M	679-3483
28406 WALTERS H D	679-1059
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28421 MACINTYRE F D	679-4723
28438 KAPLAN BERNARD	679-1646
28439 BANGS JUS L	679-3508
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28451 FILLER ESTHER MRS	679-3486
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28478 WHITE AUSTIN	679-2487
28490 HAINES W L	679-2458
28491 UNDERWOOD FRANK B	679-4592
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28590 SIMPSON ALAN F	679-5593 4
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28604 MILLER DENVER LYAL	679-3042
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28913 XXXX	00
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31135 HALSTEAD FOSTER	679-4232+6
31295 GONZALES DAVID S	679-2804+6
32545 DREW PAUL W	679-4791+6
32551*CARTER N H LNDSCPNG	679-4636+6
32905 BEHLING DONALD A	679-1767+6
* 3 BUS 149 RES	32 NEW

MURRIETA RD

MURRIETA RD

Menifee, CA 92585

Inquiry Number: 6489730.4

May 12, 2021

EDR Historical Topo Map Report

with QuadMatch™



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EDR Historical Topo Map Report

05/12/21

Site Name:

MURRIETA RD
MURRIETA RD
Menifee, CA 92585
EDR Inquiry # 6489730.4

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Shilpa Sunil



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Search Results:**Coordinates:**

P.O.#	NA	Latitude:	33.73742 33° 44' 15" North
Project:	C3-8430	Longitude:	-117.208292 -117° 12' 30" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	480705.69
		UTM Y Meters:	3733061.73
		Elevation:	1433.61' above sea level

Maps Provided:

2012
1979
1973
1953
1947
1943
1942
1901

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Romoland
2012
7.5-minute, 24000



Perris
2012
7.5-minute, 24000

1979 Source Sheets



Romoland
1979
7.5-minute, 24000
Aerial Photo Revised 1976

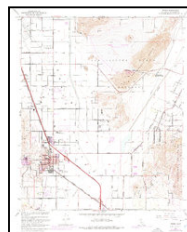


Perris
1979
7.5-minute, 24000
Aerial Photo Revised 1978

1973 Source Sheets

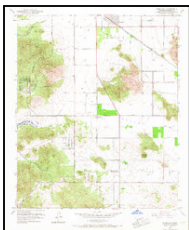


Romoland
1973
7.5-minute, 24000
Aerial Photo Revised 1973

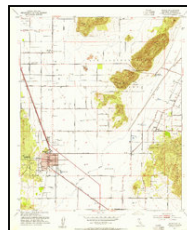


Perris
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1953 Source Sheets



Romoland
1953
7.5-minute, 24000
Aerial Photo Revised 1951



Perris
1953
7.5-minute, 24000
Aerial Photo Revised 1951

Topo Sheet Key

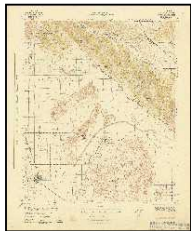
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1947 Source Sheets



MURRIETA
1947
15-minute, 50000

1943 Source Sheets



PERRIS
1943
15-minute, 62500

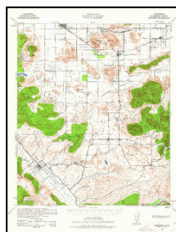


Murrieta
1943
15-minute, 62500
Aerial Photo Revised 1939

1942 Source Sheets

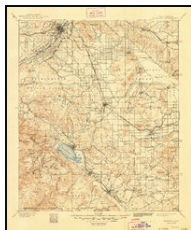


Perris
1942
15-minute, 62500
Aerial Photo Revised 1939

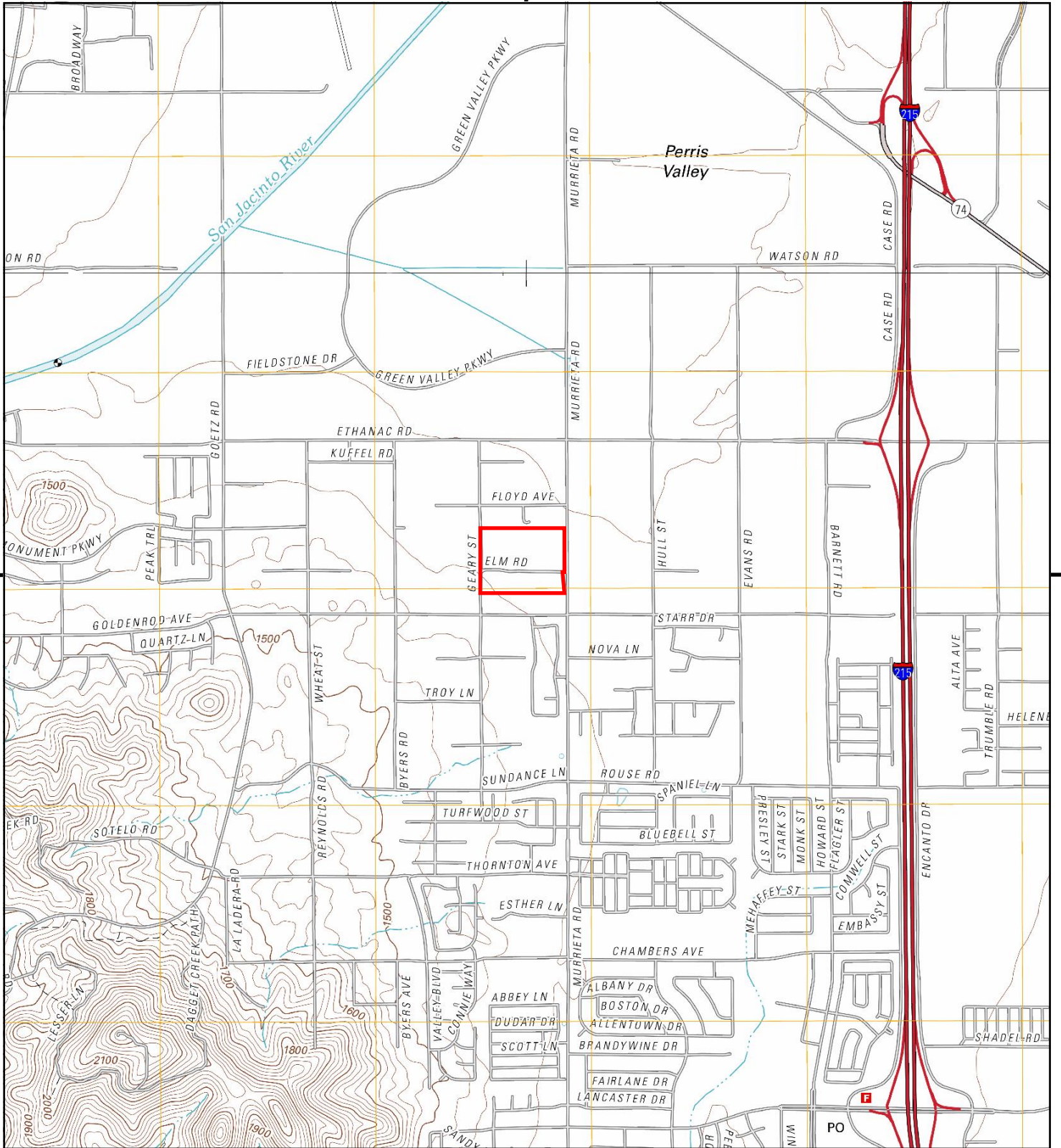


Murrieta
1942
15-minute, 62500
Aerial Photo Revised 1939

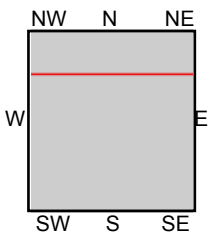
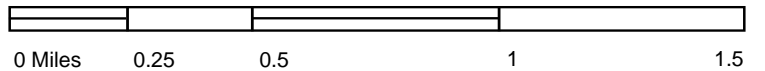
1901 Source Sheets



Elsinore
1901
30-minute, 125000



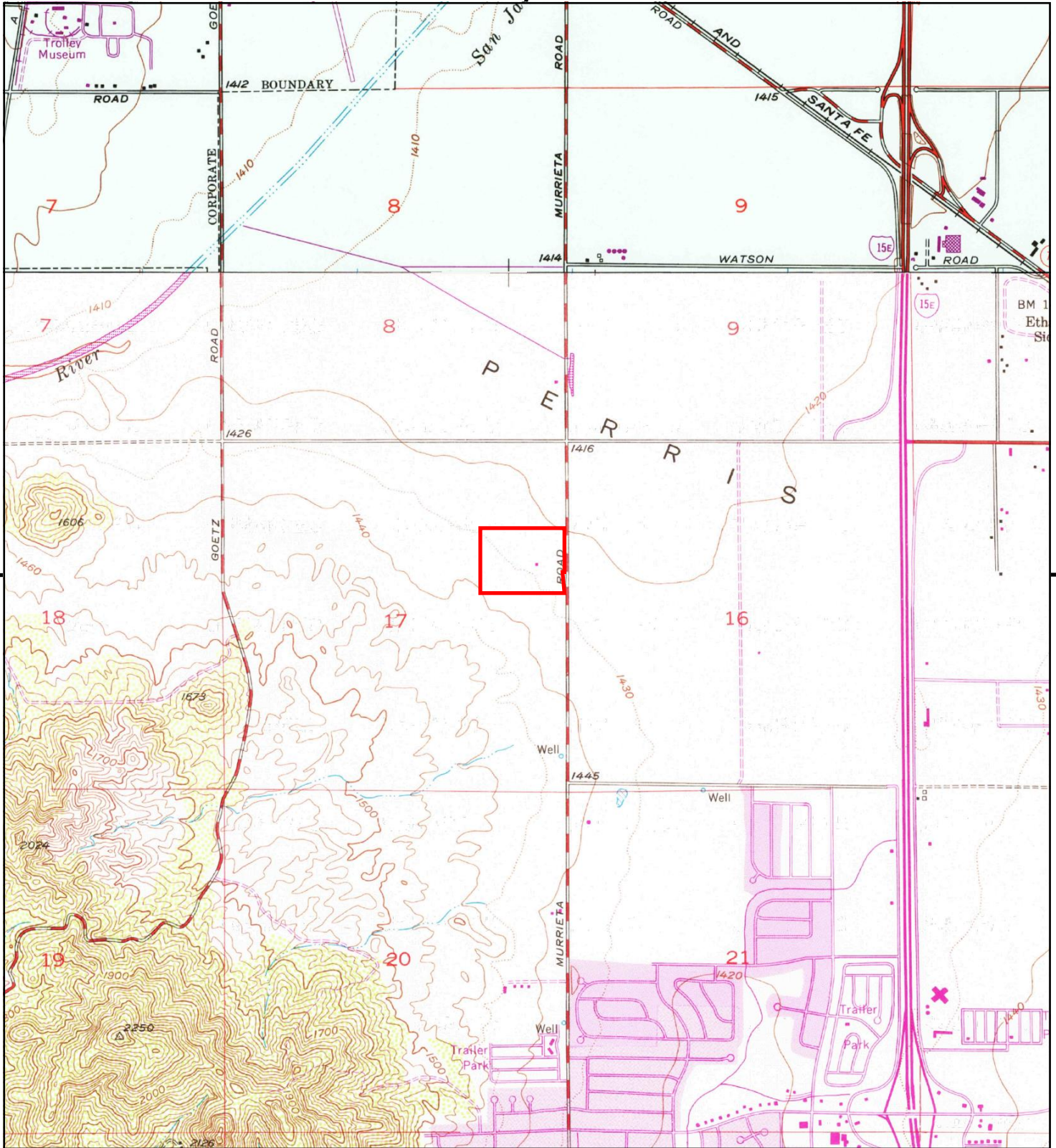
This report includes information from the following map sheet(s).



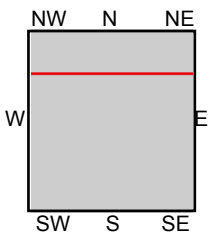
TP, Romoland, 2012, 7.5-minute
 N, Perris, 2012, 7.5-minute

SITE NAME: MURRIETA RD
ADDRESS: MURRIETA RD
 Menifee, CA 92585
CLIENT: Hillmann Environmental Co.





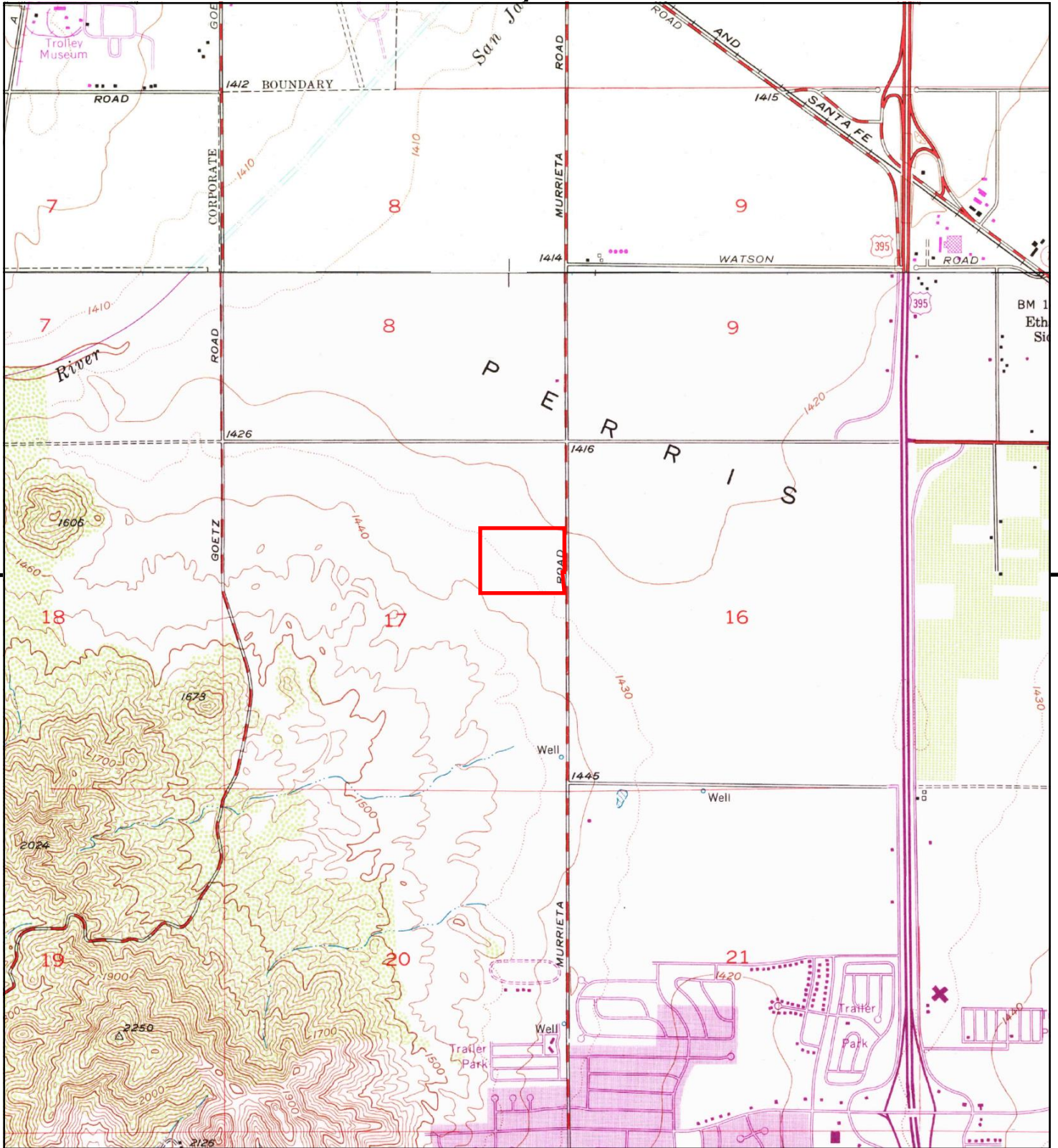
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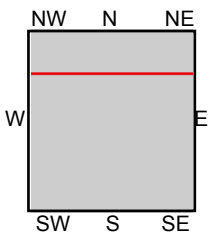
TP, Romoland, 1979, 7.5-minute
N, Perris, 1979, 7.5-minute

SITE NAME: MURRIETA RD
ADDRESS: MURRIETA RD
Menifee, CA 92585
CLIENT: Hillmann Environmental Co.





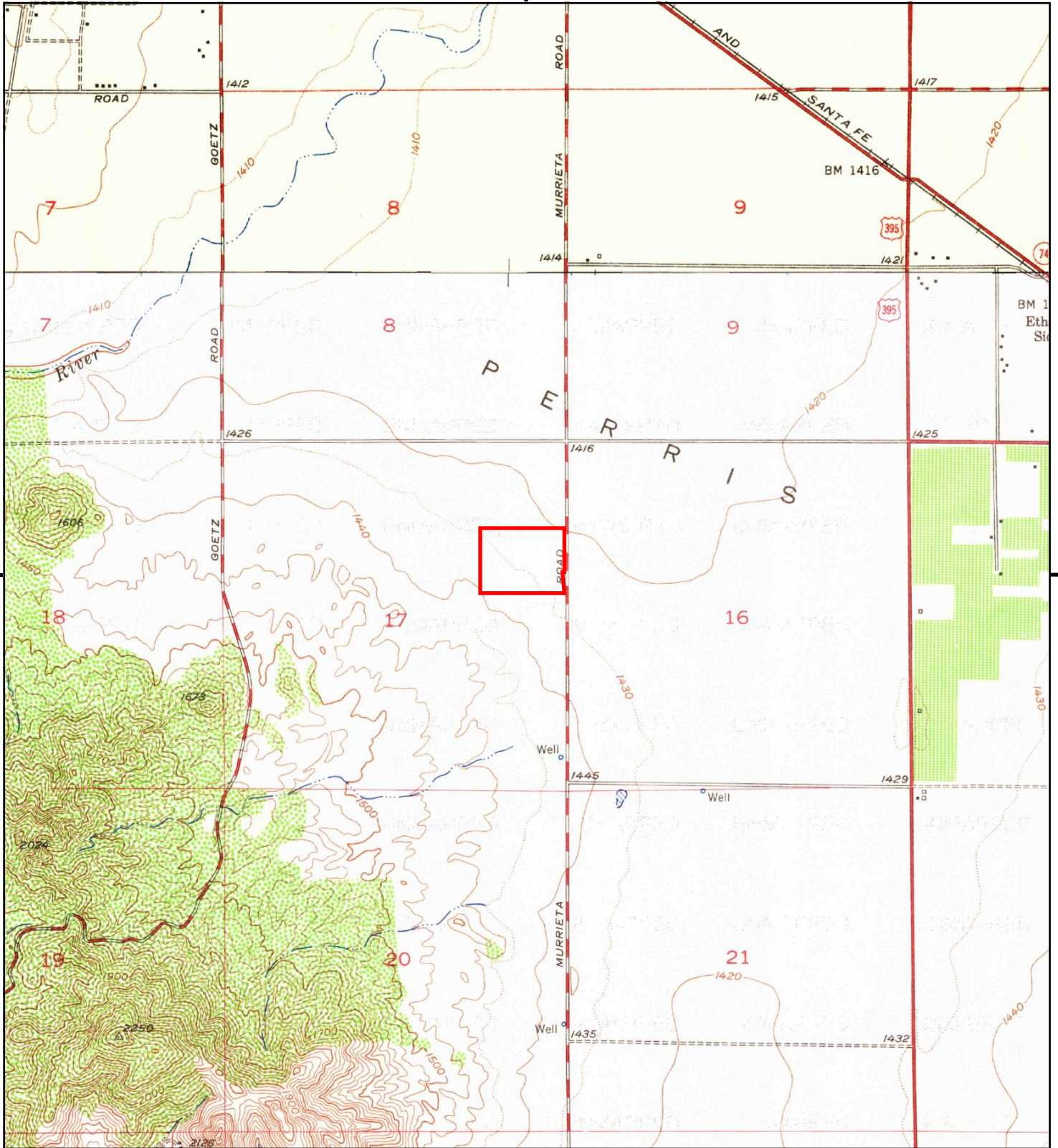
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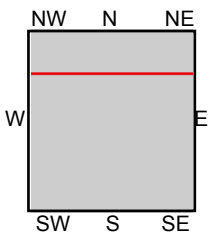
TP, Romoland, 1973, 7.5-minute
N, Perris, 1973, 7.5-minute

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ADDRESS: MURRIETA RD
Menifee, CA 92585
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This report includes information from the following map sheet(s).

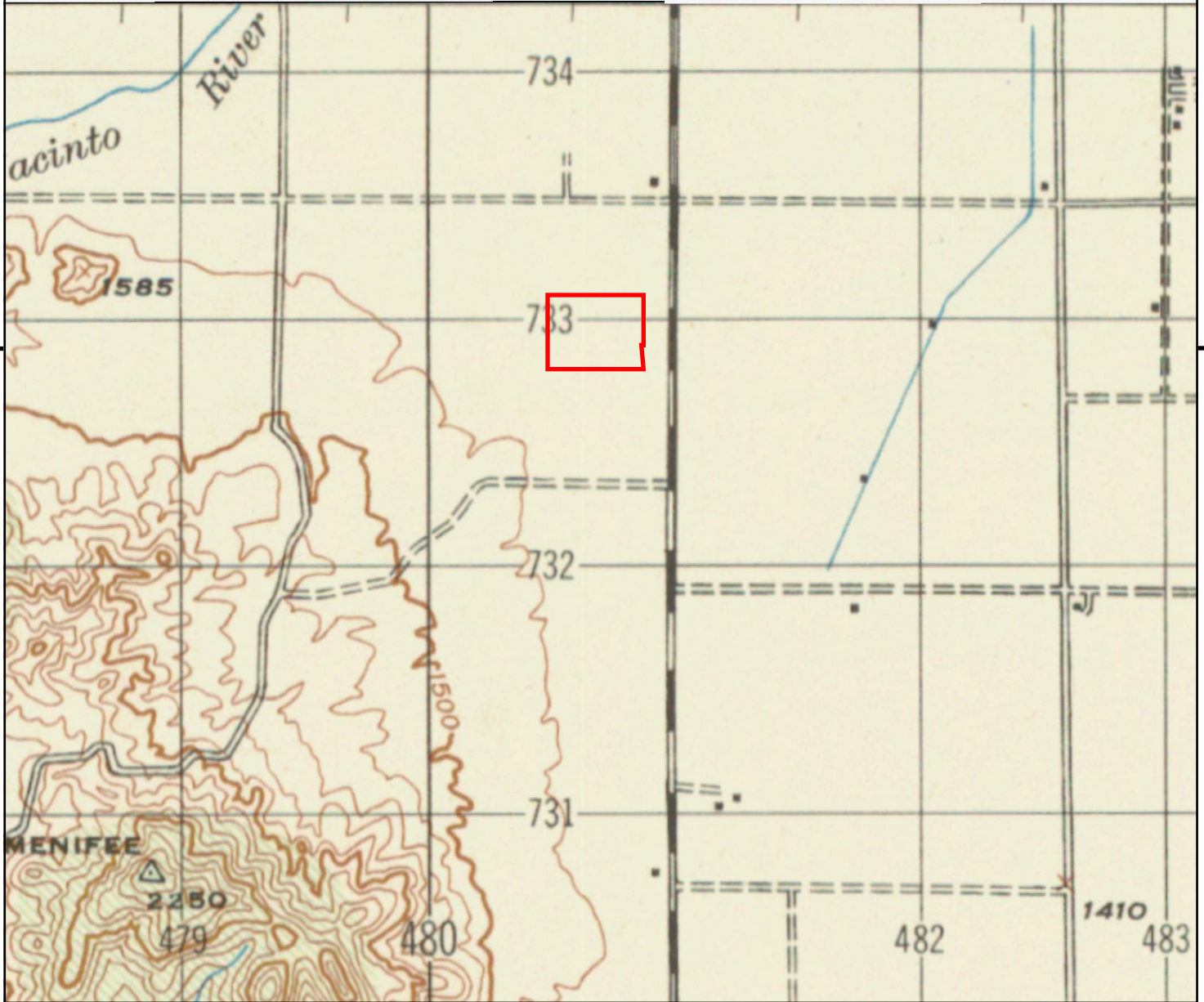


TP, Romoland, 1953, 7.5-minute
N, Perris, 1953, 7.5-minute

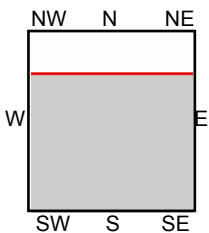
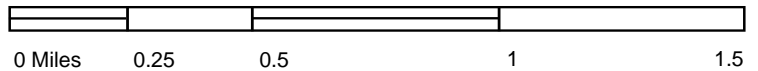
SITE NAME: MURRIETA RD
ADDRESS: MURRIETA RD
Menifee, CA 92585
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UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED



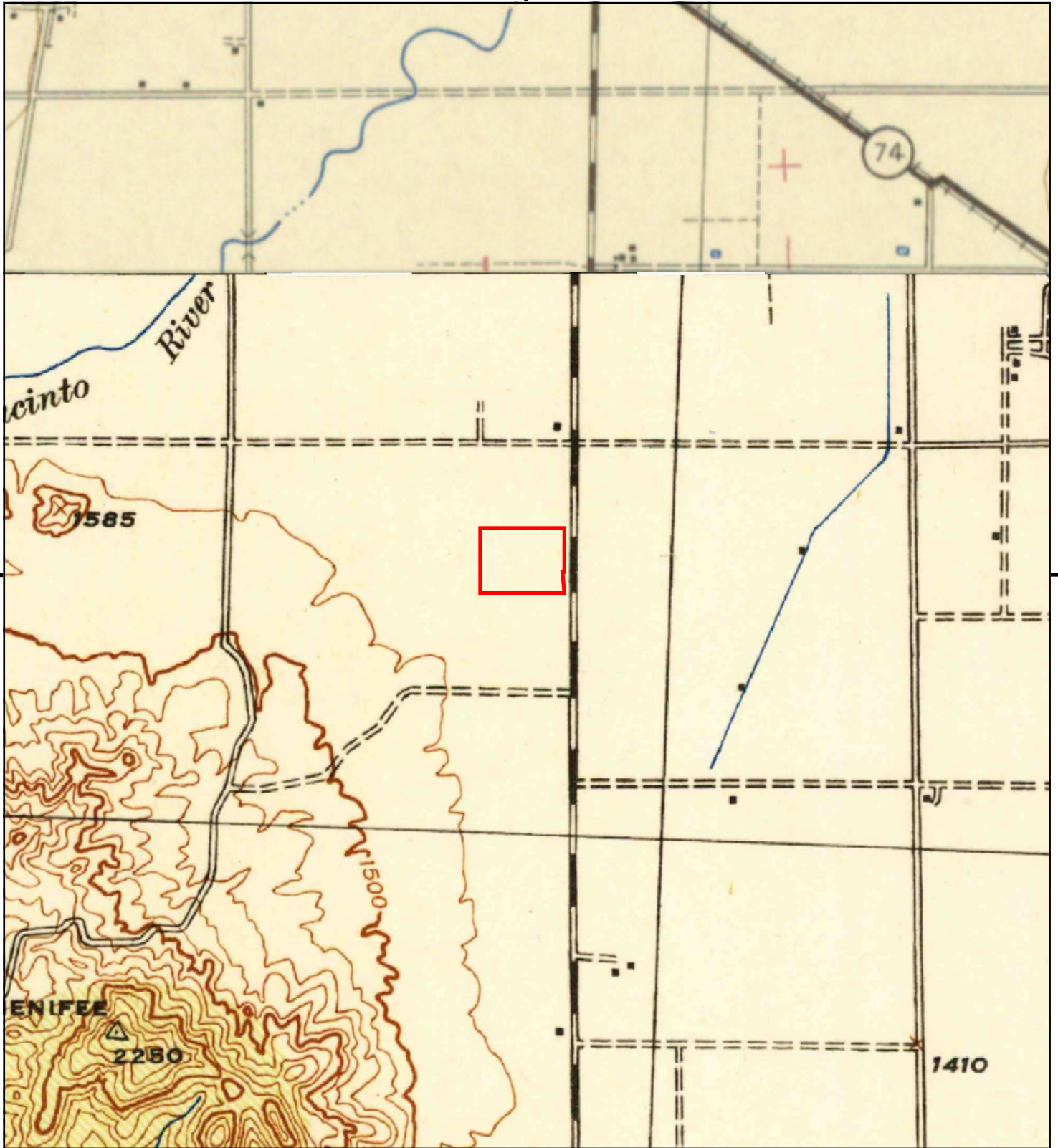
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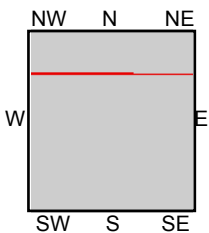
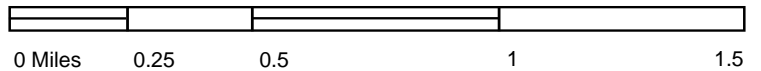
TP, MURRIETA, 1947, 15-minute

SITE NAME: MURRIETA RD
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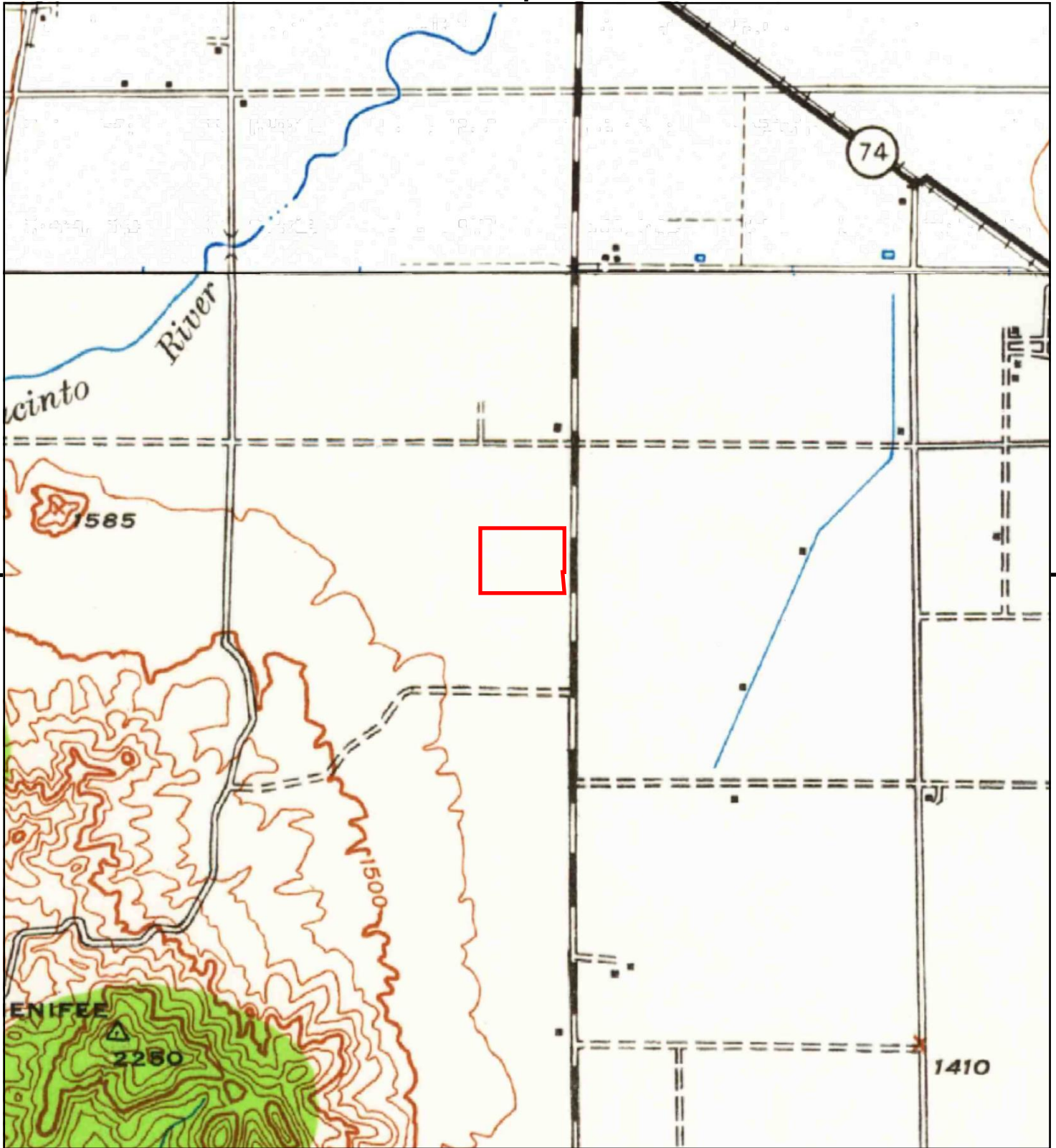
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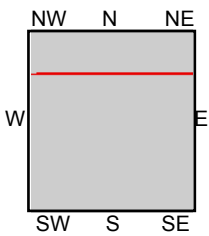
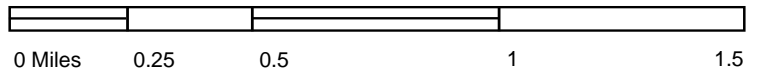
TP, Murrieta, 1943, 15-minute
NE, PERRIS, 1943, 15-minute

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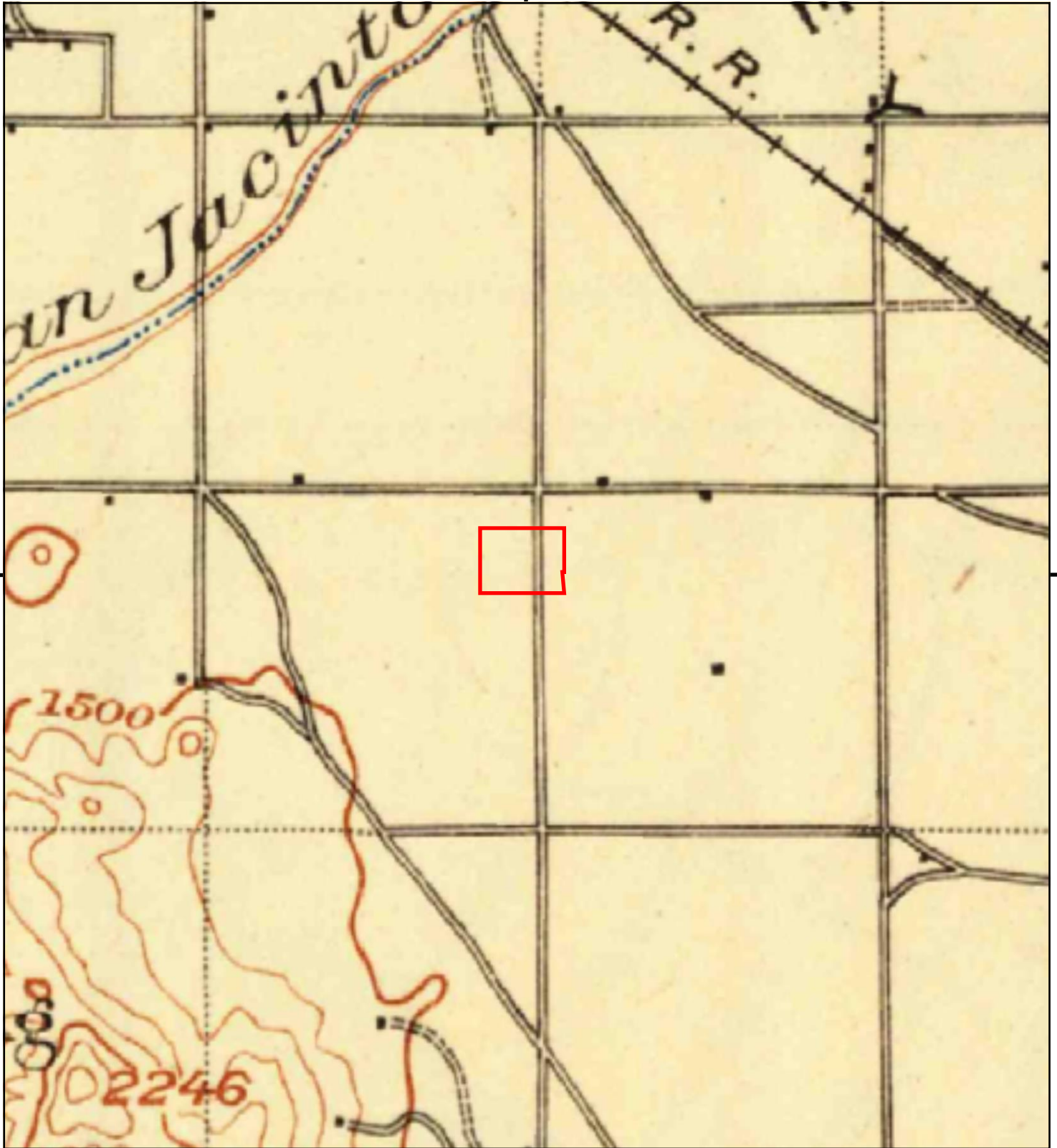
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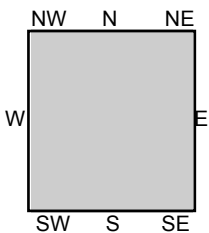
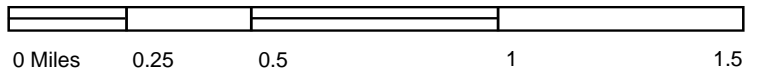
TP, Murrieta, 1942, 15-minute
NE, Perris, 1942, 15-minute

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ADDRESS: MURRIETA RD
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This report includes information from the following map sheet(s).



TP, Elsinore, 1901, 30-minute

SITE NAME: MURRIETA RD
ADDRESS: MURRIETA RD
Menifee, CA 92585
CLIENT: Hillmann Environmental Co.



MURRIETA RD

MURRIETA RD

Menifee, CA 92585

Inquiry Number: 6489730.3

May 12, 2021

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05/12/21

Site Name:

MURRIETA RD
MURRIETA RD
Menifee, CA 92585
EDR Inquiry # 6489730.3

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Shilpa Sunil



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- Library of Congress
- University Publications of America
- EDR Private Collection

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APPENDIX E

REGULATORY RECORDS DOCUMENTATION

MURRIETA RD
MURRIETA RD
Menifee, CA 92585

Inquiry Number: 06489730.2r
May 12, 2021

The EDR Radius Map™ Report with GeoCheck®



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Shelton, CT 06484
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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MURRIETA RD
MENIFEE, CA 92585

COORDINATES

Latitude (North): 33.7374200 - 33° 44' 14.71"
Longitude (West): 117.2082920 - 117° 12' 29.85"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 480705.2
UTM Y (Meters): 3732868.2
Elevation: 1433 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5641314 ROMOLAND, CA
Version Date: 2012

North Map: 5641330 PERRIS, CA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140603, 20140530
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
MURRIETA RD
MENIFEE, CA 92585

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	THE CLUB K-8 SCHOOL	EVANS ROAD/NOVA LANE	ENVIROSTOR, SCH, CERS	Lower	2867, 0.543, ESE
2	MONUMENT RANCH SITE	GOETZ ROAD / ETHANAC	ENVIROSTOR, SCH, CERS	Lower	4124, 0.781, WNW
3	ELEMENTARY SCHOOL NO	FENCE POST DRIVE/RAM	ENVIROSTOR, SCH	Higher	4901, 0.928, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

LUST..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

HIST Cal-Sites.....	Historical Calsites Database
SCH.....	School Property Evaluation Program
CDL.....	Clandestine Drug Labs
Toxic Pits.....	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE.....	CERS HAZ WASTE
US CDL.....	National Clandestine Laboratory Register
PFAS.....	PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST.....	SWEEPS UST Listing
HIST UST.....	Hazardous Substance Storage Container Database
CERS TANKS.....	California Environmental Reporting System (CERS) Tanks
CA FID UST.....	Facility Inventory Database

Local Land Records

LIENS.....	Environmental Liens Listing
LIENS 2.....	CERCLA Lien Information
DEED.....	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS.....	Hazardous Materials Information Reporting System
CHMIRS.....	California Hazardous Material Incident Report System
LDS.....	Land Disposal Sites Listing
MCS.....	Military Cleanup Sites Listing
SPILLS 90.....	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR.....	RCRA - Non Generators / No Longer Regulated
FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing

EXECUTIVE SUMMARY

DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
ECHO.....	Enforcement & Compliance History Information
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings.....	CUPA Resources List
DRYCLEANERS.....	Cleaner Facilities
EML.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
ICE.....	ICE
HIST CORTESE.....	Hazardous Waste & Substance Site List
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
UIC GEO.....	UIC GEO (GEOTRACKER)
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing
CIWQS.....	California Integrated Water Quality System
CERS.....	CERS
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
HWTS.....	Hazardous Waste Tracking System
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/25/2021 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>ELEMENTARY SCHOOL NO</i> Facility Id: 60000776 Status: Inactive - Withdrawn	<i>FENCE POST DRIVE/RAM</i>	<i>SW 1/2 - 1 (0.928 mi.)</i>	<i>3</i>	<i>16</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>THE CLUB K-8 SCHOOL</i> Facility Id: 33010067 Status: No Further Action	<i>EVANS ROAD/NOVA LANE</i>	<i>ESE 1/2 - 1 (0.543 mi.)</i>	<i>1</i>	<i>9</i>
<i>MONUMENT RANCH SITE</i>	<i>GOETZ ROAD / ETHANAC</i>	<i>WNW 1/2 - 1 (0.781 mi.)</i>	<i>2</i>	<i>12</i>

EXECUTIVE SUMMARY

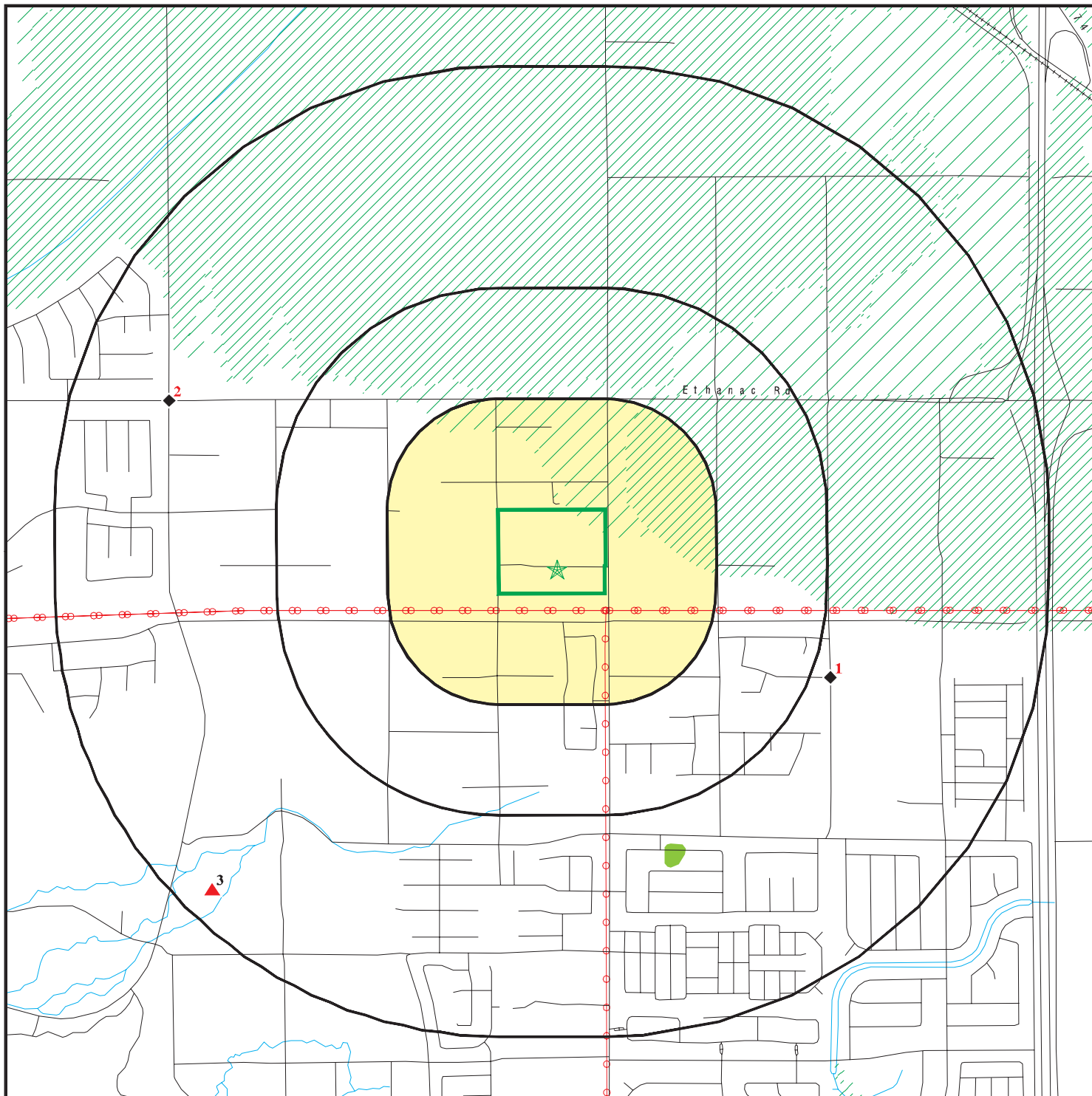
Facility Id: 70000024
Status: No Further Action

EXECUTIVE SUMMARY


Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.


<u>Site Name</u>	<u>Database(s)</u>
EMWD MURRIETA ROAD BOOSTER PLANT	FINDS

OVERVIEW MAP - 06489730.2R



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites

 Indian Reservations BIA


 Power transmission lines

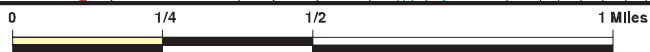
 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

 Areas of Concern

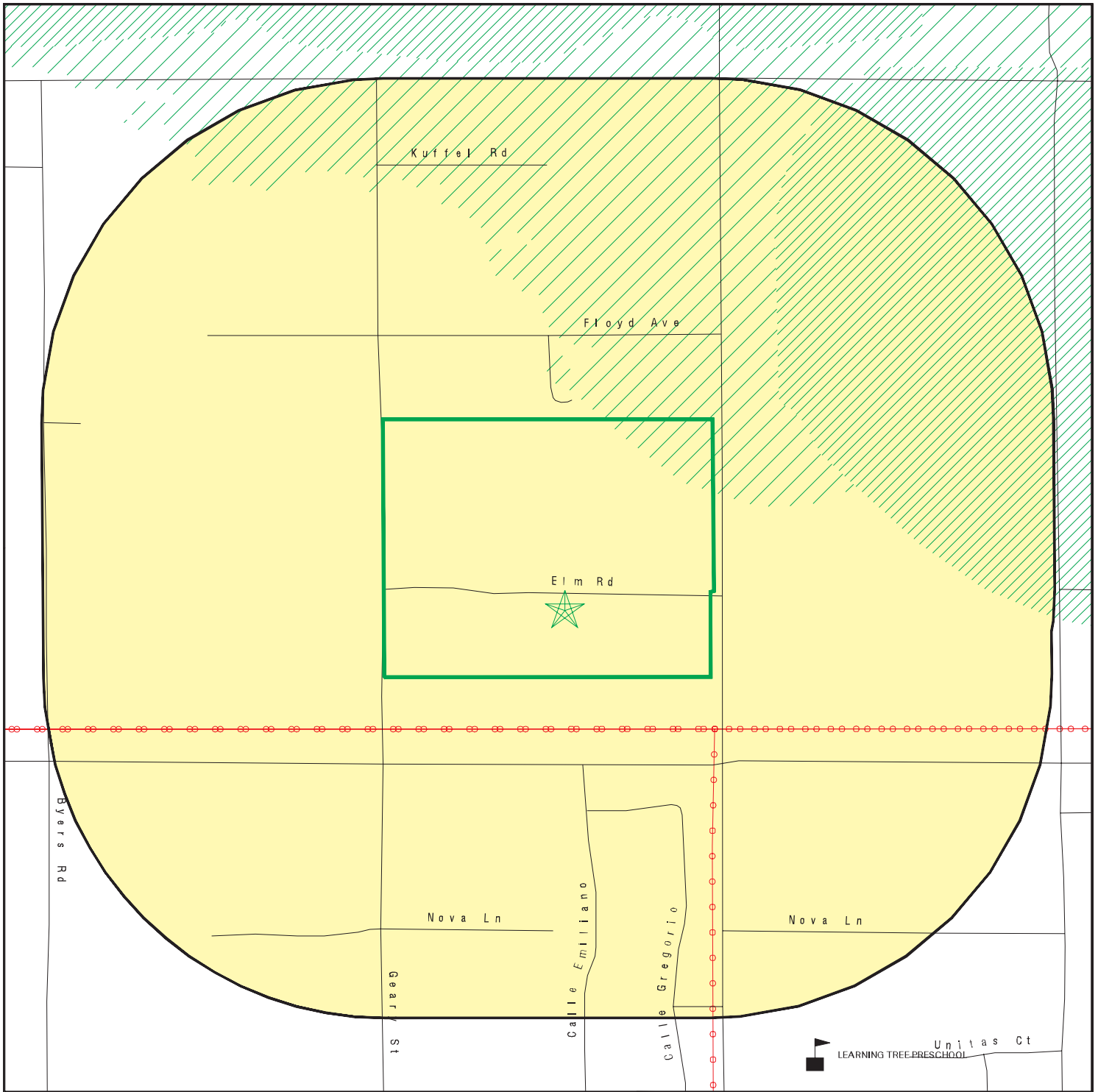









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.






SITE NAME: MURRIETA RD
 ADDRESS: MURRIETA RD
 Menifee CA 92585
 LAT/LONG: 33.73742 / 117.208292

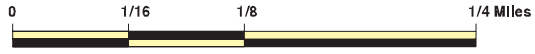
CLIENT: Hillmann Environmental Co.
 CONTACT: Shilpa Sunil
 INQUIRY #: 06489730.2r
 DATE: May 12, 2021 9:50 am

DETAIL MAP - 06489730.2R



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: MURRIETA RD ADDRESS: MURRIETA RD Menifee CA 92585 LAT/LONG: 33.73742 / 117.208292	CLIENT: Hillmann Environmental Co. CONTACT: Shilpa Sunil INQUIRY #: 06489730.2r DATE: May 12, 2021 9:51 am
-------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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								
<i>Federal NPL site list</i>								
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
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
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
<i>Federal institutional controls / engineering controls registries</i>								
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
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL RESPONSE</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i>								
ENVIROSTOR	1.000		0	0	0	3	NR	3
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	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
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	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	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --		0	0	0	0	3	0	3
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
-----------------	----------------------------------------	----------------------------	-----------------	------------------	------------------	----------------	---------------	--------------------------

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

1
ESE
1/2-1
0.543 mi.
2867 ft.

THE CLUB K-8 SCHOOL
EVANS ROAD/NOVA LANE
ROMOLAND, CA 92586

ENVIROSTOR **S105628774**
SCH **N/A**
CERS

Relative:
Lower

ENVIROSTOR:

Actual:
1425 ft.

Name: THE CLUB K-8 SCHOOL
Address: EVANS ROAD/NOVA LANE
City,State,Zip: ROMOLAND, CA 92586
Facility ID: 33010067
Status: No Further Action
Status Date: 04/17/2003
Site Code: 404389
Site Type: School Investigation
Site Type Detailed: School
Acres: 19.08
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 67
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.73257
Longitude: -117.1943
APN: 331-080-008, 331-080-009, 331-080-010, 331-080-011
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: DDE Lead Chromium VI Cobalt Copper and compounds Nickel (soluble salts)
Confirmed COC: Chromium VI Cobalt Copper and compounds Nickel (soluble salts) DDE Lead
Potential Description: SOIL
Alias Name: CLUB K-8 SCHOOL
Alias Type: Alternate Name
Alias Name: ROMOLAND ELEMENTARY SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: ROMOLAND SD-THE CLUB K-8 SCHOOL
Alias Type: Alternate Name
Alias Name: THE CLUB K-8 SCHOOL
Alias Type: Alternate Name
Alias Name: 331-080-008
Alias Type: APN
Alias Name: 331-080-009
Alias Type: APN
Alias Name: 331-080-010
Alias Type: APN
Alias Name: 331-080-011
Alias Type: APN
Alias Name: 404389
Alias Type: Project Code (Site Code)
Alias Name: 33010067
Alias Type: Envirostor ID Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE CLUB K-8 SCHOOL (Continued)

S105628774

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/17/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/24/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/28/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/18/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: THE CLUB K-8 SCHOOL
Address: EVANS ROAD/NOVA LANE
City,State,Zip: ROMOLAND, CA 92586
Facility ID: 33010067
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 19.08
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE CLUB K-8 SCHOOL (Continued)

S105628774

Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404389
Assembly: 67
Senate: 23
Special Program Status: Not reported
Status: No Further Action
Status Date: 04/17/2003
Restricted Use: NO
Funding: School District
Latitude: 33.73257
Longitude: -117.1943
APN: 331-080-008, 331-080-009, 331-080-010, 331-080-011
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: DDE, Lead, Chromium VI, Cobalt, Copper and compounds, Nickel (soluble salts)
Confirmed COC: Chromium VI, Cobalt, Copper and compounds, Nickel (soluble salts), DDE, Lead
Potential Description: SOIL
Alias Name: CLUB K-8 SCHOOL
Alias Type: Alternate Name
Alias Name: ROMOLAND ELEMENTARY SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: ROMOLAND SD-THE CLUB K-8 SCHOOL
Alias Type: Alternate Name
Alias Name: THE CLUB K-8 SCHOOL
Alias Type: Alternate Name
Alias Name: 331-080-008
Alias Type: APN
Alias Name: 331-080-009
Alias Type: APN
Alias Name: 331-080-010
Alias Type: APN
Alias Name: 331-080-011
Alias Type: APN
Alias Name: 404389
Alias Type: Project Code (Site Code)
Alias Name: 33010067
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/17/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/24/2002
Comments: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

THE CLUB K-8 SCHOOL (Continued)

S105628774

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Environmental Oversight Agreement
 Completed Date: 10/28/2002
 Comments: Not reported

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Cost Recovery Closeout Memo
 Completed Date: 04/18/2003
 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

CERS:

Name: THE CLUB K-8 SCHOOL
 Address: EVANS ROAD/NOVA LANE
 City,State,Zip: ROMOLAND, CA 92586
 Site ID: 343858
 CERS ID: 33010067
 CERS Description: School Investigation

Affiliation:

Affiliation Type Desc: Supervisor
 Entity Name: JAVIER HINOJOSA
 Entity Title: Not reported
 Affiliation Address: Not reported
 Affiliation City: Not reported
 Affiliation State: Not reported
 Affiliation Country: Not reported
 Affiliation Zip: Not reported
 Affiliation Phone: Not reported

2
WNW
1/2-1
0.781 mi.
4124 ft.

MONUMENT RANCH SITE
GOETZ ROAD / ETHANAC ROAD
PERRIS, CA 92570

ENVIROSTOR **S109548225**
SCH **N/A**
CERS

Relative:
Lower
Actual:
1431 ft.

ENVIROSTOR:
 Name: MONUMENT RANCH SITE
 Address: GOETZ ROAD / ETHANAC ROAD
 City,State,Zip: PERRIS, CA 92570
 Facility ID: 70000024
 Status: No Further Action
 Status Date: 06/22/2006
 Site Code: 404643
 Site Type: School Investigation
 Site Type Detailed: School

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONUMENT RANCH SITE (Continued)

S109548225

Acres: 23
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 61
Senate: 31
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.74253
Longitude: -117.2405
APN: 330-160-007, 330-160-008, 330-160-009, 330-160-010, 330-160-011, 330-160-012, 330-160-013, 330-160-014, 330-160-015, 330160007, 330160008
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC: Arsenic DDD DDE DDT
Confirmed COC: 30001-NO 30006-NO 30007-NO 30008-NO
Potential Description: SOIL
Alias Name: Romoland School District
Alias Type: Alternate Name
Alias Name: 330-160-007
Alias Type: APN
Alias Name: 330-160-008
Alias Type: APN
Alias Name: 330-160-009
Alias Type: APN
Alias Name: 330-160-010
Alias Type: APN
Alias Name: 330-160-011
Alias Type: APN
Alias Name: 330-160-012
Alias Type: APN
Alias Name: 330-160-013
Alias Type: APN
Alias Name: 330-160-014
Alias Type: APN
Alias Name: 330-160-015
Alias Type: APN
Alias Name: 330160007
Alias Type: APN
Alias Name: 330160008
Alias Type: APN
Alias Name: 404643
Alias Type: Project Code (Site Code)
Alias Name: 20050024
Alias Type: Envirostor ID Number
Alias Name: 70000024
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/03/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONUMENT RANCH SITE (Continued)

S109548225

Comments: PEA workplan approval

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/20/2006
Comments: DTSC issued a No Further Action determination based on a Preliminary Environmental Assessment Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/26/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 08/09/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: MONUMENT RANCH SITE
Address: GOETZ ROAD / ETHANAC ROAD
City,State,Zip: PERRIS, CA 92570
Facility ID: 70000024
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 23
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404643
Assembly: 61
Senate: 31
Special Program Status: Not reported
Status: No Further Action
Status Date: 06/22/2006
Restricted Use: NO
Funding: School District
Latitude: 33.74253

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONUMENT RANCH SITE (Continued)

S109548225

Longitude: -117.2405
APN: 330-160-007, 330-160-008, 330-160-009, 330-160-010, 330-160-011, 330-160-012, 330-160-013, 330-160-014, 330-160-015, 330160007, 330160008
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC: Arsenic, DDD, DDE, DDT
Confirmed COC: 30001-NO, 30006-NO, 30007-NO, 30008-NO
Potential Description: SOIL
Alias Name: Romoland School District
Alias Type: Alternate Name
Alias Name: 330-160-007
Alias Type: APN
Alias Name: 330-160-008
Alias Type: APN
Alias Name: 330-160-009
Alias Type: APN
Alias Name: 330-160-010
Alias Type: APN
Alias Name: 330-160-011
Alias Type: APN
Alias Name: 330-160-012
Alias Type: APN
Alias Name: 330-160-013
Alias Type: APN
Alias Name: 330-160-014
Alias Type: APN
Alias Name: 330-160-015
Alias Type: APN
Alias Name: 330160007
Alias Type: APN
Alias Name: 330160008
Alias Type: APN
Alias Name: 404643
Alias Type: Project Code (Site Code)
Alias Name: 20050024
Alias Type: Envirostor ID Number
Alias Name: 70000024
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/03/2006
Comments: PEA workplan approval

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/20/2006
Comments: DTSC issued a No Further Action determination based on a Preliminary Environmental Assessment Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/26/2006
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONUMENT RANCH SITE (Continued)

S109548225

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 08/09/2005
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

CERS:

Name: MONUMENT RANCH SITE
Address: GOETZ ROAD / ETHANAC ROAD
City,State,Zip: PERRIS, CA 92570
Site ID: 340232
CERS ID: 70000024
CERS Description: School Investigation

Affiliation:

Affiliation Type Desc: Lead Project Manager
Entity Name: IVY OSORNIO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: SHAHIR HADDAD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

3
SW
1/2-1
0.928 mi.
4901 ft.

ELEMENTARY SCHOOL NO. 14
FENCE POST DRIVE/RAM DRIVE
SUN CITY, CA 92585

ENVIROSTOR **S108974351**
SCH **N/A**

Relative:
Higher

ENVIROSTOR:
Name: ELEMENTARY SCHOOL NO. 14
Address: FENCE POST DRIVE/RAM DRIVE
City,State,Zip: SUN CITY, CA 92585
Facility ID: 60000776
Status: Inactive - Withdrawn

Actual:
1557 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELEMENTARY SCHOOL NO. 14 (Continued)

S108974351

Status Date: 10/22/2008
Site Code: 404764
Site Type: School Investigation
Site Type Detailed: School
Acres: 12.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Angela Garcia
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 67
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.727
Longitude: -117.2218
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: DDD DDE DDT
Confirmed COC: 30006-NO 30007-NO 30008-NO
Potential Description: SOIL
Alias Name: 404764
Alias Type: Project Code (Site Code)
Alias Name: 60000776
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/22/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/10/2008
Comments: DTSC determined that a Preliminary Environmental Assessment is required based on the Phase I report

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: ELEMENTARY SCHOOL NO. 14
Address: FENCE POST DRIVE/RAM DRIVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELEMENTARY SCHOOL NO. 14 (Continued)

S108974351

City,State,Zip: SUN CITY, CA 92585
Facility ID: 60000776
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 12.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Angela Garcia
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404764
Assembly: 67
Senate: 23
Special Program Status: Not reported
Status: Inactive - Withdrawn
Status Date: 10/22/2008
Restricted Use: NO
Funding: School District
Latitude: 33.727
Longitude: -117.2218
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: DDD, DDE, DDT
Confirmed COC: 30006-NO, 30007-NO, 30008-NO
Potential Description: SOIL
Alias Name: 404764
Alias Type: Project Code (Site Code)
Alias Name: 60000776
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/22/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/10/2008
Comments: DTSC determined that a Preliminary Environmental Assessment is required based on the Phase I report

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

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
PERRIS	1023351274	EMWD MURRIETA ROAD BOOSTER PLANT	25877 MURRIETA RD	92570	FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: N/A
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/03/2021
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/12/2021
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 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: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: N/A
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/03/2021
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/12/2021
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/30/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 800-424-9346
Date Made Active in Reports: 02/18/2021	Last EDR Contact: 05/03/2021
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/26/2021
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/14/2020	Source: EPA
Date Data Arrived at EDR: 12/17/2020	Telephone: 800-424-9346
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 03/23/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 03/23/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 03/23/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 03/23/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 03/23/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/09/2021	Source: Department of the Navy
Date Data Arrived at EDR: 02/11/2021	Telephone: 843-820-7326
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 05/05/2021
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 02/23/2021
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/06/2021
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 02/23/2021
Number of Days to Update: 13	Next Scheduled EDR Contact: 06/06/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies 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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: see region list
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Quarterly

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	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	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	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 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 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2020	Telephone: 415-972-3372
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 04/23/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020	Source: EPA Region 8
Date Data Arrived at EDR: 12/16/2020	Telephone: 303-312-6271
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 04/23/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020	Source: EPA Region 7
Date Data Arrived at EDR: 12/22/2020	Telephone: 913-551-7003
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 04/23/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020	Source: EPA Region 4
Date Data Arrived at EDR: 12/18/2020	Telephone: 404-562-8677
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 04/23/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 08/02/2021
	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: 10/01/2020	Source: EPA Region 1
Date Data Arrived at EDR: 12/16/2020	Telephone: 617-918-1313
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 04/23/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-6597
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 04/23/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/22/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/09/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/16/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 04/21/2021
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/09/2021
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/09/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-323-3836
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 11/23/2020	Telephone: 916-341-6422
Date Made Active in Reports: 02/08/2021	Last EDR Contact: 05/05/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 04/22/2021
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/09/2021
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 04/14/2021
Number of Days to Update: 137	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/09/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing Aboveground storage tank sites

Date of Government Version: 02/11/2021	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 02/11/2021	Telephone: 415-252-3896
Date Made Active in Reports: 05/05/2021	Last EDR Contact: 04/27/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	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: 01/20/2021	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-323-2514
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 04/20/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/24/2020	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 11/30/2020	Telephone: 916-323-3400
Date Made Active in Reports: 02/10/2021	Last EDR Contact: 02/26/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 06/14/2021
	Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/30/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 02/18/2021	Last EDR Contact: 05/03/2021
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/12/2021
	Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/30/2020	Source: DTSC and SWRCB
Date Data Arrived at EDR: 12/01/2020	Telephone: 916-323-3400
Date Made Active in Reports: 02/12/2021	Last EDR Contact: 03/03/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/14/2021
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/16/2020	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 12/17/2020	Telephone: 202-366-4555
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 03/24/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2020	Source: Office of Emergency Services
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-845-8400
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 04/20/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Quality Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 03/23/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-528-4285
Date Made Active in Reports: 04/05/2021	Last EDR Contact: 02/17/2021
Number of Days to Update: 47	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/16/2021
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/26/2021
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 04/05/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/10/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

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: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 03/05/2021	Last EDR Contact: 05/03/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 04/09/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 03/31/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/11/2021	Telephone: 301-415-7169
Date Made Active in Reports: 05/11/2021	Last EDR Contact: 04/16/2021
Number of Days to Update: 61	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 03/05/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/14/2021
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 03/02/2021
Number of Days to Update: 251	Next Scheduled EDR Contact: 06/14/2021
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/07/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 03/25/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 07/12/2021
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/28/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/18/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 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: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/10/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/02/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-564-2280
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 04/06/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018	Source: Department of Defense
Date Data Arrived at EDR: 07/02/2020	Telephone: 703-704-1564
Date Made Active in Reports: 09/17/2020	Last EDR Contact: 04/13/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 07/26/2021
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2021	Source: EPA
Date Data Arrived at EDR: 02/17/2021	Telephone: 800-385-6164
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 02/17/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/17/2020	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 12/17/2020	Telephone: 916-323-3400
Date Made Active in Reports: 03/09/2021	Last EDR Contact: 03/23/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/14/2019	Telephone: 925-454-2361
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 02/12/2021
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/24/2021
	Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/25/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/09/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 82

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 04/15/2020	Telephone: 916-255-1136
Date Made Active in Reports: 07/02/2020	Last EDR Contact: 04/09/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/16/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/17/2021	Telephone: 877-786-9427
Date Made Active in Reports: 05/07/2021	Last EDR Contact: 02/17/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	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: 02/16/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/17/2021	Telephone: 916-323-3400
Date Made Active in Reports: 05/10/2021	Last EDR Contact: 02/17/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/05/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/05/2021	Telephone: 916-440-7145
Date Made Active in Reports: 03/18/2021	Last EDR Contact: 04/06/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/08/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-322-1080
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 10/30/2020	Source: Department of Public Health
Date Data Arrived at EDR: 12/01/2020	Telephone: 916-558-1784
Date Made Active in Reports: 02/12/2021	Last EDR Contact: 03/03/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/14/2021
	Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 02/09/2021	Telephone: 916-445-9379
Date Made Active in Reports: 05/04/2021	Last EDR Contact: 05/11/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/30/2020	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 12/01/2020	Telephone: 916-445-4038
Date Made Active in Reports: 02/12/2021	Last EDR Contact: 03/03/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/14/2021
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/09/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-323-3836
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/07/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/09/2020	Telephone: 916-445-3846
Date Made Active in Reports: 12/10/2020	Last EDR Contact: 03/12/2021
Number of Days to Update: 1	Next Scheduled EDR Contact: 06/28/2021
	Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-445-2408
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 03/08/2021

Date Data Arrived at EDR: 03/09/2021

Date Made Active in Reports: 03/30/2021

Number of Days to Update: 21

Source: State Water Resource Control Board

Telephone: 866-480-1028

Last EDR Contact: 03/09/2021

Next Scheduled EDR Contact: 06/21/2021

Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019

Date Data Arrived at EDR: 01/07/2020

Date Made Active in Reports: 03/09/2020

Number of Days to Update: 62

Source: RWQCB, Central Valley Region

Telephone: 559-445-5577

Last EDR Contact: 04/09/2021

Next Scheduled EDR Contact: 07/19/2021

Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007

Date Data Arrived at EDR: 06/20/2007

Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227

Last EDR Contact: 02/16/2021

Next Scheduled EDR Contact: 05/31/2021

Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009

Date Data Arrived at EDR: 07/21/2009

Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726

Last EDR Contact: 03/19/2021

Next Scheduled EDR Contact: 07/05/2021

Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 03/08/2021

Date Data Arrived at EDR: 03/09/2021

Date Made Active in Reports: 03/30/2021

Number of Days to Update: 21

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 03/09/2021

Next Scheduled EDR Contact: 06/21/2021

Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 03/08/2021

Date Data Arrived at EDR: 03/09/2021

Date Made Active in Reports: 03/30/2021

Number of Days to Update: 21

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 03/09/2021

Next Scheduled EDR Contact: 06/21/2021

Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

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: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/30/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 182	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 01/11/2019	Telephone: 510-567-6700
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 03/31/2021
Number of Days to Update: 53	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 03/18/2021	Telephone: 510-567-6700
Date Made Active in Reports: 03/25/2021	Last EDR Contact: 03/17/2021
Number of Days to Update: 7	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 02/02/2021	Source: Amador County Environmental Health
Date Data Arrived at EDR: 02/04/2021	Telephone: 209-223-6439
Date Made Active in Reports: 04/23/2021	Last EDR Contact: 05/11/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

BUTTE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 80

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 11/18/2020
Date Data Arrived at EDR: 11/19/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 77

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/10/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INYO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/27/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 72

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/16/2021	Telephone: 626-458-6973
Date Made Active in Reports: 04/21/2021	Last EDR Contact: 04/16/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/26/2021
	Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 03/26/2021
Number of Days to Update: 58	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 03/26/2021
Number of Days to Update: 58	Next Scheduled EDR Contact: 07/05/2021
	Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 10/19/2020	Source: Community Health Services
Date Data Arrived at EDR: 01/12/2021	Telephone: 323-890-7806
Date Made Active in Reports: 03/26/2021	Last EDR Contact: 04/16/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/26/2021
	Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 04/07/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/26/2021
	Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 04/14/2021
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 09/11/2020	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 10/07/2020	Telephone: 310-618-2973
Date Made Active in Reports: 12/23/2020	Last EDR Contact: 04/23/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 02/16/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 03/25/2021
Number of Days to Update: 29	Next Scheduled EDR Contact: 07/12/2021
	Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/21/2020	Source: Department of Public Health
Date Data Arrived at EDR: 12/21/2020	Telephone: 707-463-4466
Date Made Active in Reports: 03/10/2021	Last EDR Contact: 02/22/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 06/06/2021
	Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021	Source: Merced County Environmental Health
Date Data Arrived at EDR: 02/09/2021	Telephone: 209-381-1094
Date Made Active in Reports: 02/18/2021	Last EDR Contact: 01/29/2021
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Varies

MONO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/08/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 77

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/25/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List CUPA facility list.

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Petroleum and non-petroleum spills.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/02/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/16/2021
Number of Days to Update: 77

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 11/20/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/05/2021
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SHASTA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 12/03/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2021
Date Data Arrived at EDR: 01/06/2021
Date Made Active in Reports: 03/18/2021
Number of Days to Update: 71

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List

Cupa program facilities

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List

Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Division of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

VENTURA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/28/2020	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 01/29/2021	Telephone: 805-654-2813
Date Made Active in Reports: 04/22/2021	Last EDR Contact: 04/19/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 03/25/2021
Number of Days to Update: 49	Next Scheduled EDR Contact: 07/12/2021
	Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 05/05/2021
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 04/21/2021	Telephone: 805-654-2813
Date Made Active in Reports: 04/23/2021	Last EDR Contact: 04/19/2021
Number of Days to Update: 2	Next Scheduled EDR Contact: 08/02/2021
	Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2021	Source: Environmental Health Division
Date Data Arrived at EDR: 03/09/2021	Telephone: 805-654-2813
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 03/09/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/21/2021
	Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/21/2020	Source: Yolo County Department of Health
Date Data Arrived at EDR: 12/23/2020	Telephone: 530-666-8646
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 03/26/2021
Number of Days to Update: 12	Next Scheduled EDR Contact: 07/12/2021
	Data Release Frequency: Annually

YUBA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2021
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 02/03/2021
Number of Days to Update: 6

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/24/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 10/05/2020
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018

Date Data Arrived at EDR: 06/19/2019

Date Made Active in Reports: 09/03/2019

Number of Days to Update: 76

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/08/2021

Next Scheduled EDR Contact: 06/21/2021

Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MURRIETA RD
MURRIETA RD
MENIFEE, CA 92585

TARGET PROPERTY COORDINATES

Latitude (North): 33.73742 - 33° 44' 14.71"
Longitude (West): 117.208292 - 117° 12' 29.85"
Universal Tranverse Mercator: Zone 11
UTM X (Meters): 480705.2
UTM Y (Meters): 3732868.2
Elevation: 1433 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5641314 ROMOLAND, CA
Version Date: 2012

North Map: 5641330 PERRIS, CA
Version Date: 2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

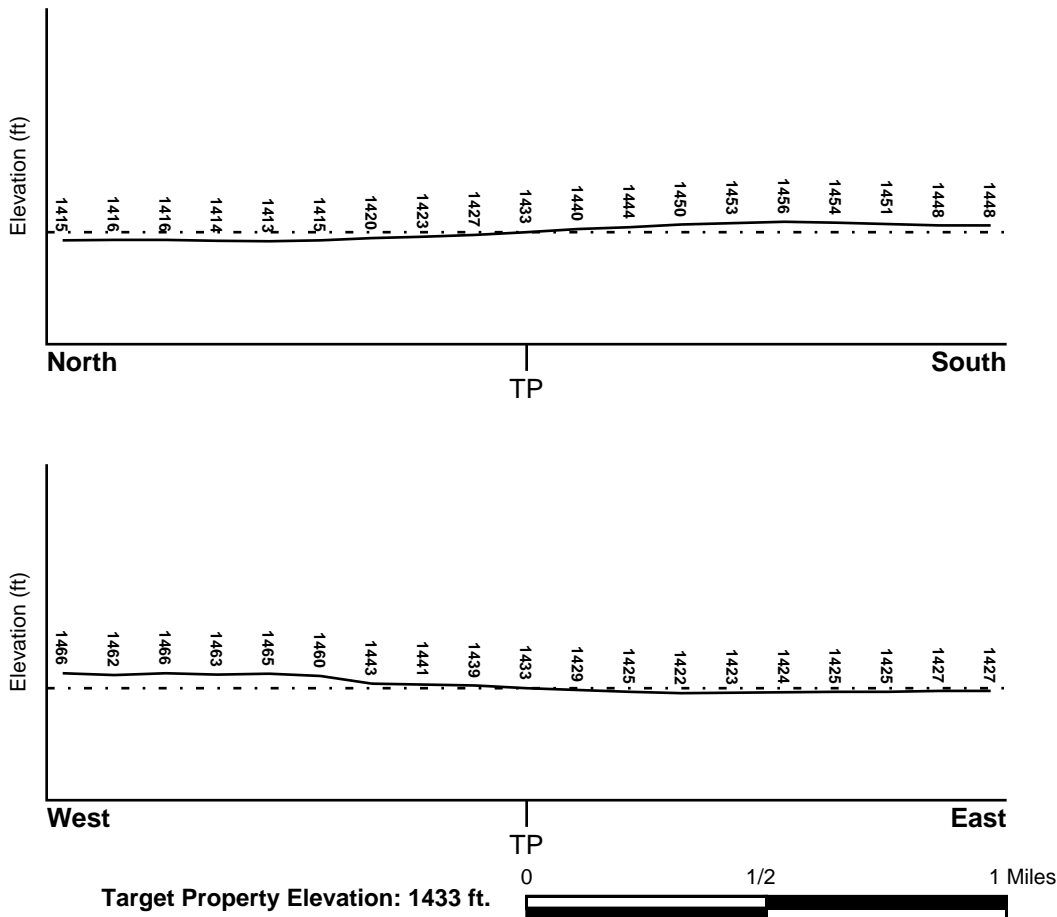
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06065C2055H	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06065C1440H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

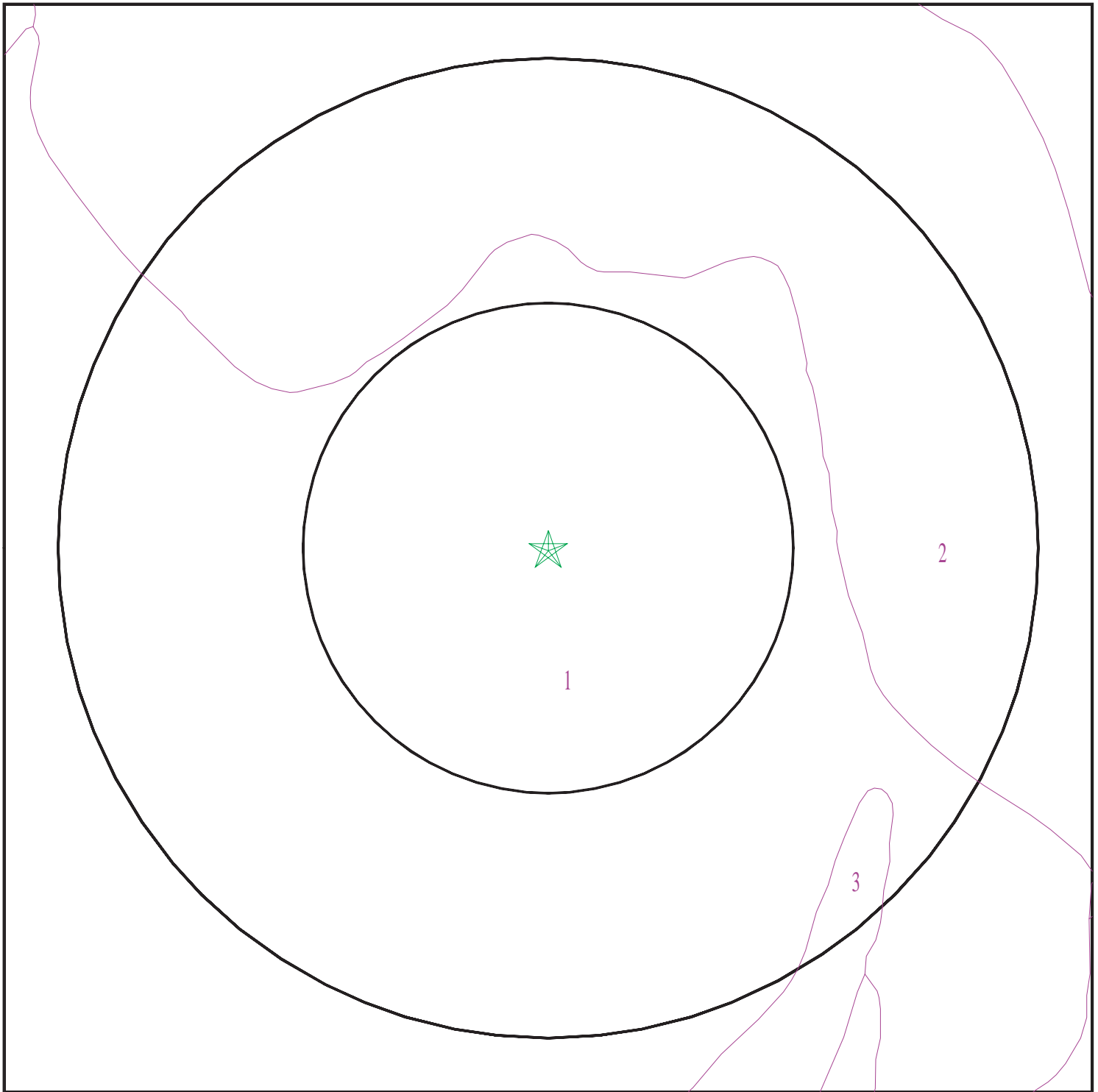
Era: Mesozoic
System: Cretaceous
Series: Cretaceous granitic rocks
Code: Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 06489730.2r



- ★ Target Property
- ~ SSURGO Soil
- ~ Water



SITE NAME: MURRIETA RD
ADDRESS: MURRIETA RD
Menifee CA 92585
LAT/LONG: 33.73742 / 117.208292

CLIENT: Hillmann Environmental Co.
CONTACT: Shilpa Sunil
INQUIRY #: 06489730.2r
DATE: May 12, 2021 9:51 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: AULD

Soil Surface Texture: clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	27 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	27 inches	44 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	44 inches	48 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: PORTERVILLE

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0.01	Max: Min:
2	7 inches	35 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0.01	Max: Min:
3	35 inches	40 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.42 Min: 0.01	Max: Min:

Soil Map ID: 3

Soil Component Name: WYMAN

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	14 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	35 inches	50 inches	stratified loam to clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	50 inches	59 inches	stratified loam to clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000137694	1/8 - 1/4 Mile NNE
B3	USGS40000137659	1/4 - 1/2 Mile East
5	USGS40000137574	1/4 - 1/2 Mile SSW
C7	USGS40000137732	1/4 - 1/2 Mile NE
8	USGS40000137534	1/4 - 1/2 Mile SSW
D9	USGS40000137511	1/2 - 1 Mile South
H20	USGS40000137582	1/2 - 1 Mile ESE
J25	USGS40000137862	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

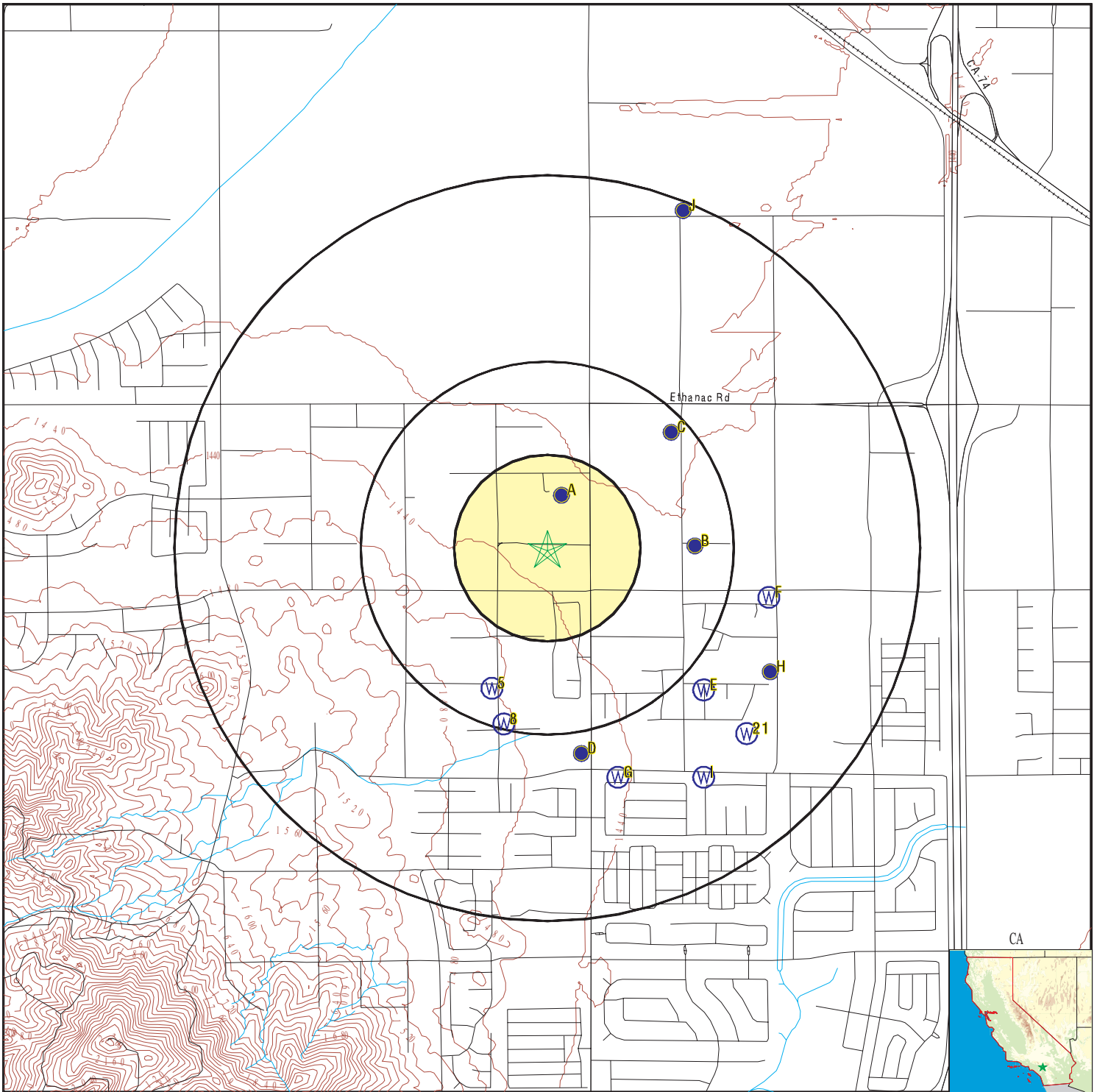
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CADWR8000005253	1/8 - 1/4 Mile North
B4	CAUSGSN00014749	1/4 - 1/2 Mile East
C6	CAUSGSN00017156	1/4 - 1/2 Mile NE
D10	CAUSGSN00006828	1/2 - 1 Mile South
E11	CADWR0000021744	1/2 - 1 Mile SE
E12	CADWR0000030101	1/2 - 1 Mile SE
F13	CAUSGS000001747	1/2 - 1 Mile ESE
F14	CAUSGSN00012320	1/2 - 1 Mile ESE
F15	CADDW0000017526	1/2 - 1 Mile ESE
G16	CADWR0000015790	1/2 - 1 Mile SSE
G17	CADWR0000024076	1/2 - 1 Mile SSE
G18	CADWR0000037275	1/2 - 1 Mile SSE
H19	CADWR8000005223	1/2 - 1 Mile ESE
21	CADWR8000005196	1/2 - 1 Mile SE
I22	CADWR0000007196	1/2 - 1 Mile SE
I23	CADWR0000034909	1/2 - 1 Mile SE
J24	CAUSGSN00011078	1/2 - 1 Mile NNE
J26	CADWR8000005312	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 06489730.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: MURRIETA RD
 ADDRESS: MURRIETA RD
 Menifee CA 92585
 LAT/LONG: 33.73742 / 117.208292

CLIENT: Hillmann Environmental Co.
 CONTACT: Shilpa Sunil
 INQUIRY #: 06489730.2r
 DATE: May 12, 2021 9:51 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
North
1/8 - 1/4 Mile
Lower

CA WELLS CADWR8000005253

State Well #:	05S03W17A001S	Station ID:	6316
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	San Jacinto	Well Completion Rpt #:	Not Reported

A2
NNE
1/8 - 1/4 Mile
Lower

FED USGS USGS40000137694

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W17A001S	Type:	Well
Description:	Not Reported	HUC:	18070202
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:	19950206	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	160
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1995-02-07
Feet below surface:	22	Feet to sea level:	Not Reported
Note:	Not Reported		

B3
East
1/4 - 1/2 Mile
Lower

FED USGS USGS40000137659

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W16F001S	Type:	Well
Description:	Not Reported	HUC:	18070202
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B4
East
1/4 - 1/2 Mile
Lower

CA WELLS CAUSGSN00014749

Well ID:	USGS-334415117120201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334415117120201	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp_date=&global_id=&assigned_name=USGS-334415117120201&store_num=		
GeoTracker Data:	Not Reported		

5
SSW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000137574

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W17Q001S	Type:	Well
Description:	Not Reported	HUC:	18070202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	198809
Well Depth:	210	Well Depth Units:	ft
Well Hole Depth:	210	Well Hole Depth Units:	ft

C6
NE
1/4 - 1/2 Mile
Lower

CA WELLS CAUSGSN00017156

Well ID:	USGS-334431117120601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334431117120601	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp_date=&global_id=&assigned_name=USGS-334431117120601&store_num=		
GeoTracker Data:	Not Reported		

C7
NE
1/4 - 1/2 Mile
Lower

FED USGS USGS40000137732

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W16D001S	Type:	Well
Description:	Not Reported	HUC:	18070202
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:	160

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

8
SSW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000137534

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W17R002S	Type:	Well
Description:	Not Reported	HUC:	18070202
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:	19920211	Well Depth:	220
Well Depth Units:	ft	Well Hole Depth:	220
Well Hole Depth Units:	ft		

D9
South
1/2 - 1 Mile
Higher

FED USGS USGS40000137511

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W17R001S	Type:	Well
Description:	Not Reported	HUC:	18070202
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:	370
Well Depth Units:	ft	Well Hole Depth:	370
Well Hole Depth Units:	ft		

D10
South
1/2 - 1 Mile
Higher

CA WELLS CAUSGSN00006828

Well ID:	USGS-334346117122101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334346117122101	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp_date=&global_id=&assigned_name=USGS-334346117122101&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E11
SE
1/2 - 1 Mile
Lower

CA WELLS CADWR0000021744

Well ID: 05S03W16P002S Well Type: UNK
 Source: Department of Water Resources
 Other Name: 05S03W16P002S 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=05S03W16P002S&store_num=
 GeoTracker Data: Not Reported

E12
SE
1/2 - 1 Mile
Lower

CA WELLS CADWR0000030101

Well ID: 05S03W16P001S Well Type: UNK
 Source: Department of Water Resources
 Other Name: 05S03W16P001S 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=05S03W16P001S&store_num=
 GeoTracker Data: Not Reported

F13
ESE
1/2 - 1 Mile
Lower

CA WELLS CAUSGS000001747

Well ID: USAWS-13 Well Type: MUNICIPAL
 Source: United States Geological Survey
 Other Name: USAWS-13 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=USAWS-13&store_num=
 GeoTracker Data: Not Reported

F14
ESE
1/2 - 1 Mile
Lower

CA WELLS CAUSGSN00012320

Well ID: USGS-334400117110001 Well Type: UNK
 Source: United States Geological Survey
 Other Name: USGS-334400117110001 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-334400117110001&store_num=
 GeoTracker Data: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

F15
ESE
1/2 - 1 Mile
Lower

CA WELLS CADDW0000017526

Well ID:	3310009-034	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 76 (DESALTER SUPPLY)	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=3310009-034&store_num=		
GeoTracker Data:	Not Reported		

G16
SSE
1/2 - 1 Mile
Higher

CA WELLS CADWR0000015790

Well ID:	05S03W21D003S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S03W21D003S	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=05S03W21D003S&store_num=		
GeoTracker Data:	Not Reported		

G17
SSE
1/2 - 1 Mile
Higher

CA WELLS CADWR0000024076

Well ID:	05S03W21D002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S03W21D002S	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=05S03W21D002S&store_num=		
GeoTracker Data:	Not Reported		

G18
SSE
1/2 - 1 Mile
Higher

CA WELLS CADWR0000037275

Well ID:	05S03W21D001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S03W21D001S	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=05S03W21D001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

H19
ESE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000005223

State Well #:	Not Reported	Station ID:	48340
Well Name:	EMWD12765	Well Use:	Observation
Well Type:	Single Well	Well Depth:	0
Basin Name:	San Jacinto	Well Completion Rpt #:	Not Reported

H20
ESE
1/2 - 1 Mile
Lower

FED USGS USGS40000137582

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070202
Monitor Location:	005S003W16P002S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	Not Reported
Aquifer:	California Coastal Basin aquifers	Well Hole Depth:	568
Formation Type:	Not Reported	Well Hole Depth Units:	ft
Construction Date:	1971		
Well Depth Units:	Not Reported		
Well Hole Depth Units:	ft		

21
SE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000005196

State Well #:	Not Reported	Station ID:	48341
Well Name:	EMWD11141	Well Use:	Observation
Well Type:	Single Well	Well Depth:	154
Basin Name:	San Jacinto	Well Completion Rpt #:	Not Reported

I22
SE
1/2 - 1 Mile
Lower

CA WELLS CADWR0000007196

Well ID:	05S03W21C002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S03W21C002S	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=05S03W21C002S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

I23
SE
1/2 - 1 Mile
Lower

CA WELLS CADWR0000034909

Well ID:	05S03W21C001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S03W21C001S	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=05S03W21C001S&store_num=		
GeoTracker Data:	Not Reported		

J24
NNE
1/2 - 1 Mile
Lower

CA WELLS CAUSGSN00011078

Well ID:	USGS-334502117120401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-334502117120401	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-334502117120401&store_num=		
GeoTracker Data:	Not Reported		

J25
NNE
1/2 - 1 Mile
Lower

FED USGS USGS40000137862

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S003W09E001S	Type:	Well
Description:	Not Reported	HUC:	18070202
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:	19930920	Well Depth:	240
Well Depth Units:	ft	Well Hole Depth:	250
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1995-09-13
Feet below surface:	81.55	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1995-06-26	Feet below surface:	84.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-13	Feet below surface:	83.69
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

J26
NNE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000005312

State Well #:	05S03W09E001S	Station ID:	6305
Well Name:	EMWD12742	Well Use:	Observation
Well Type:	Single Well	Well Depth:	236
Basin Name:	San Jacinto	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92585	6	0

Federal EPA Radon Zone for RIVERSIDE County: 2

- 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 RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's 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 Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX F
OTHER DOCUMENTS



Your 2019 Water Quality CONSUMER CONFIDENCE REPORT



www.emwd.org

Eastern Municipal Water District

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OUR MISSION

To deliver value to our diverse customers and the communities we serve by providing safe, reliable, economical and environmentally sustainable water, wastewater and recycled water services..

OUR VISION

To provide an exceptional level of customer and community service, exceeding the performance of any other public or private entity.

EMWD wants you, our valued customer, to be confident that your drinking water is safe.

OUR CONTINUING COMMITMENT TO YOU

EMWD and its trained, certified water quality professionals are committed to...

- Providing high quality, safe drinking water at the lowest price possible.
- Monitoring and testing the water we serve to optimize quality and ensure it is always safe to drink.
- Finding and developing new water supply sources to ensure continued reliability for our customers.
- Providing educated staff to answer any questions from our customers.

Dear Valued EMWD Customer,

Now more than ever, the availability of safe, clean and reliable tap water is critical to the well-being of residents and businesses in our communities.

Eastern Municipal Water District (EMWD) is pleased to present its annual water quality report. Once again, we provided you with consistently high-quality drinking water throughout 2019. This annual water quality report shows how EMWD continues to meet or exceed all drinking water quality standards established by the United States Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board).

EMWD is committed to providing a safe, high quality and reliable water supply while protecting public health. We use state-of-the-art water treatment processes which remove and destroy viruses, such as COVID-19. By efficiently maintaining and operating our facilities along with conducting rigorous monitoring and testing, EMWD achieves high quality tap water service. Water samples are collected throughout the year from EMWD's 31 drinking water sources to carefully test for more than 230 contaminants and impurities. In 2019, EMWD's laboratory personnel collected 6,301 water samples and performed 49,324 tests to monitor and ensure quality.

EMWD supports science-based standards that provide health benefits to the public in an economically balanced manner. While groundwater or surface waters can have trace contaminants, EMWD protects your health and safety by treating the water we deliver — ensuring your water meets or surpasses all regulated drinking water standards.

The State Board requires that EMWD customers receive an annual copy of this report, which summarizes the results of water quality tests and provides specific details about sources and quality of the water served in your community. The guidelines for distributing this report allow for electronic delivery of the report instead of a paper copy in the mail. By delivering these reports electronically, we reduce costs and eliminate paper waste associated with printing and mailing the full report to our more than 153,000 accounts.

Please note that you may change your delivery preference at any time. We will be happy to provide you with a paper copy of this report upon request through our web site at www.emwd.org/CCR or by calling us at 951-928-3777, extension 3430.

We strongly encourage you to read this report and if you have any water quality questions, please feel free to contact Michelle Karras, Senior Environmental Analyst, or any of our Water Quality staff at 951-928-3777, extension 3327. We also encourage you to get the latest news and information from EMWD through our website at www.emwd.org.

Thank you for being part of the EMWD family – we are proud to serve you.



Paul D. Jones II, P.E.
GENERAL MANAGER
EASTERN MUNICIPAL WATER DISTRICT

This annual water quality report contains important and useful information about the source and the tests used to ensure the quality and safety of your drinking water. It also describes how EMWD meets all drinking water standards as set by the United States Environmental Protection Agency (USEPA) and enforced by the State Water Resources Control Board (State Board).

About Regulations

In order to ensure that tap water is safe to drink, the United States Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The United States Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE:

- **MICROBIAL CONTAMINANTS**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock, and wildlife.
- **INORGANIC CONTAMINANTS**, such as salts and metals, can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **ORGANIC CHEMICAL CONTAMINANTS**, including synthetic and volatile organic chemicals may be by-products of industrial processes or petroleum production, and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems.
- **PESTICIDES AND HERBICIDES** may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- **RADIOACTIVE CONTAMINANTS** can be naturally-occurring or be the result of oil and gas production and mining activities.

ABOUT NITRATE

Nitrate in drinking water at levels above 10 parts per million (ppm) is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of an infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 ppm may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should seek advice from your health care provider.

SENSITIVE POPULATIONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised individuals such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about their drinking water from their health care providers. USEPA and Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other

microbial contaminants are available from the Safe Drinking Water Hotline at **(800) 426-4791**.

ARSENIC

While your drinking water meets the federal and state standard for arsenic, some of our sources do contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The USEPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

UNREGULATED CONTAMINANTS

Unregulated contaminant monitoring helps USEPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.

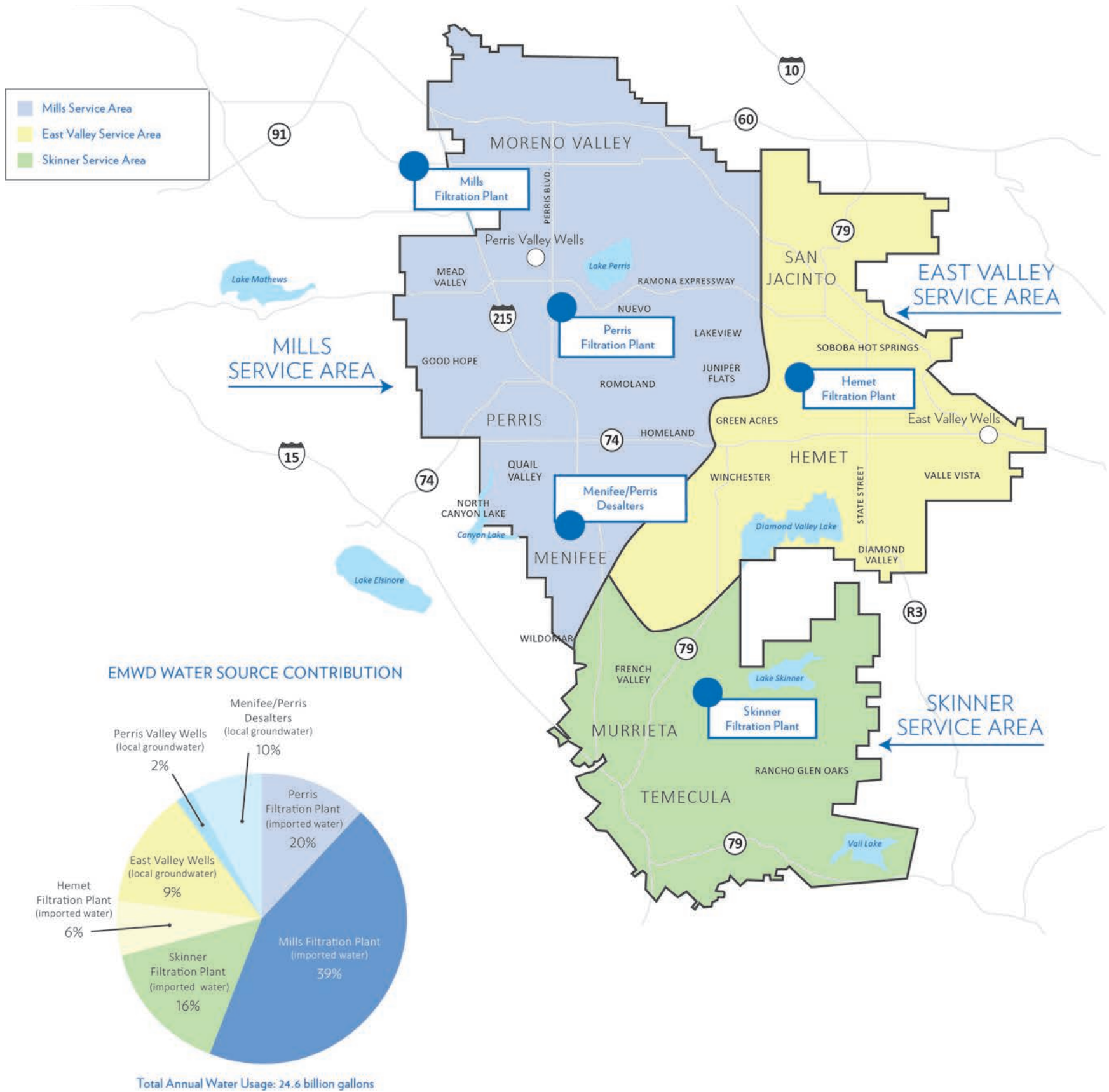
ABOUT LEAD AND COPPER

Lead and copper are rarely found in source waters; however, both of these metals can enter drinking water by leaching from household plumbing and fixtures. Water that sits in your pipes for long periods of time may dissolve tiny amounts of lead and/or copper (parts per billion levels) into household water. The USEPA has developed the Lead and Copper Rule to protect public health by establishing an action level of 15 parts per billion (ppb) for lead and 1300 ppb for copper.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. EMWD is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If your water has been sitting in your household plumbing for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. *If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.* If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at **(800) 426-4791** or at www.epa.gov/lead.

THE SOURCES OF YOUR TAP WATER...

To help you find specific details about your tap water, we have organized this report according to the communities we serve.



THE COMMUNITIES WE SERVE...

PROTECTING YOUR DRINKING WATER

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at **(800) 426-4791**.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. The land that the water comes into contact with is called the watershed; everything that happens to or in the watershed can affect the quality of your drinking water supply.

EMWD uses several sources of water to serve its customers, including surface water from the Colorado River and the State Water Project (SWP), as well as local groundwater.

An initial assessment of all the watersheds, both surface water and groundwater, was completed in 2002. The Colorado River, a surface water source, was reassessed in 2010 and found to be most vulnerable to recreational activities, urban and storm water runoff, increasing urbanization in the watershed, and wastewater.

Water from the SWP, also a surface water source, was reassessed in 2011 and found to be most vulnerable to urban and storm water runoff, wildlife, agriculture, recreational activities, and wastewater.

An assessment of all EMWD wells was completed in 2013. Two sources were considered vulnerable to airports and airplane maintenance associated with a contaminant detected in the water supply. In addition, other EMWD wells were considered most vulnerable to the following due to proximity (not associated with any contaminants): commercial and industrial activities, residential activities, agriculture, and other activities such as recreation and transportation.

You can view vulnerability assessments on line at http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/DWSAP.shtml. You can also call 951-928-3777, ext. 3327 for a copy of EMWD's vulnerability assessments.

Protecting the sources of drinking water helps protect our health. It's everyone's responsibility, and here are a few ways you can help:

- **Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.**
- **Pick up after your pets.**
- **Dispose of chemicals properly; take used motor oil to a recycling center.**

- COMMUNITIES SERVED**
- Good Hope
 - Homeland
 - Juniper Flats
 - Lakeview
 - Mead Valley
 - Menifee**
 - Moreno Valley
 - North Canyon Lake
 - Nuevo
 - Perris
 - Quail Valley
 - Romoland
 - Wildomar

MILLS SERVICE AREA | Water for this service area comes from a combination of sources:

- The Henry J. Mills Filtration Plant* treats imported surface water supplied solely from northern California through the State Water Project (SWP). The Mills Filtration Plant adjusts the fluoride levels in the water to an optimal level recommended by the Centers for Disease Control and Prevention (CDC) for oral health, and uses chloramine for final disinfection.

WATER FROM THE MILLS FILTRATION PLANT IS BLENDED WITH SEVERAL OTHER EMWD WATER SOURCES:

- One Perris Valley Well serves a limited area of Perris – along Perris Boulevard south of the Ramona Expressway.
- The Perris Water Filtration Plant (PWFP) treats both Colorado River and SWP waters. This plant uses the latest ultrafiltration technology to remove particulate contaminants to produce quality, potable water. The PWFP serves Lakeview, Nuevo, Romoland, Homeland, and Juniper Flats. This plant uses chloramine for final disinfection.
- The Menifee and Perris Desalters convert salty groundwater into potable water using a reverse osmosis process. Menifee, North Canyon Lake, and Quail Valley are the only communities within the Mills Service Area to receive blended water from this desalination plant. The Menifee and Perris Desalters use chloramine for final disinfection.

- WEST COMMUNITIES SERVED**
- Diamond Valley
 - Green Acres
 - Hemet
 - San Jacinto
 - Winchester***
- EAST COMMUNITIES SERVED**
- Hemet
 - San Jacinto
 - Soboba Hot Springs
 - Valle Vista

EAST VALLEY SERVICE AREA | This service area is split into two regions:

WEST OF STATE STREET:

- The Hemet Water Filtration Plant (HWFP) treats both Colorado River and SWP waters. This plant uses the latest ultrafiltration technology to remove particulate contaminants and produce quality, drinking water. This treatment plant uses chloramine for final disinfection. Local groundwater also supplies this area.

EAST OF STATE STREET:

- A system of deep groundwater wells serves these communities. These wells are treated by adding free chlorine for final disinfection.

- COMMUNITIES SERVED**
- French Valley
 - Menifee**
 - Murrieta
 - Rancho Glen Oaks****
 - Temecula
 - Winchester***

SKINNER SERVICE AREA | Water for this service area comes from:

- The Robert A. Skinner Filtration Plant* treats water from the Colorado River and from the SWP. The Skinner Plant adjusts the fluoride levels in the water to an optimal level recommended by the CDC for oral health, and uses chloramine for final disinfection.

* The Mills and Skinner Filtration Plants are owned and operated by The Metropolitan Water District of Southern California (Metropolitan). ** Typically served by the Mills Filtration Plant and occasionally served by the Skinner Filtration Plant. *** Typically served by the Hemet Water Filtration Plant and occasionally served by the Skinner Filtration Plant. **** This area is served water produced by Rancho California Water District. (RCWD). You may view RCWD's Consumer Confidence Report on their website at www.ranchowater.com.

Facts about Total Coliform Bacteria

Water agencies test for the presence of coliform bacteria as an indicator of drinking water quality.

Coliform bacteria are naturally present in the environment and are generally not harmful. Coliform bacteria may occur in soil, vegetation, animal waste, sewage, and surface waters.

All water systems are required to comply with the state Total Coliform Rule. All water systems are also required to comply with the federal Revised Total Coliform Rule. The federal rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e. total coliform and E. coli bacteria). The USEPA anticipates greater public health protection as the rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system.

Eastern Municipal Water District routinely tests for the presence of coliform bacteria as an indicator of the sanitary quality of drinking water. EMWD analyzed 3,118 coliform samples in 2019, two of which were total coliform positive. The maximum allowed by USEPA for coliforms is no more than 5 percent in any month. The highest monthly coliform result in 2019 was 0.4 percent, which complies with this standard. EMWD also tests for *E. coli* bacteria, which indicate fecal or sewage contamination. Zero samples tested positive for *E. coli* in 2019.

A positive coliform test result does not necessarily mean a maximum contaminant level (MCL) has been exceeded, or that there is a problem in the water system.

More information and general guidelines on ways to lessen the risk of infection by microbes are available from the USEPA's Safe Drinking Water Hotline at **(800) 426-4791** or at <http://water.epa.gov/drink/info/>.

ABBREVIATIONS

AL	Action Level	MRL	Minimum Reporting Level: set by EPA for unregulated contaminant monitoring	ppt	parts per trillion or nanograms per liter (ng/L)
CFU/mL	Colony-Forming Units per milliliter	NA	Not Applicable: no State or Federal standards are established	RAA	Running Annual Average
DLR	Detection Limits for purposes of Reporting: State-determined level that a test can detect the chemical	ND	Non-Detected: sample was taken and chemical was not detected	RL	Reporting Limit
grains/gallon	grains per gallon: a measure of water hardness. One grain/gallon equals 17.1 ppm or mg/L	NL	Notification Level	TON	Threshold Odor Number
HPC	Heterotrophic Plate Count: a bacteriological test that counts the number of bacteria per milliliter of sample	NR	No Range: all result(s) were the same value	TT	Treatment Technique
LRAA	Locational Running Annual Average	NTU	Nephelometric Turbidity Units	µS/cm	microSiemens per centimeter; or micromhos per centimeter (µmho/cm)
MCL	Maximum Contaminant Level	pCi/L	picoCuries per Liter	—	Samples not required
MCLG	Maximum Contaminant Level Goal	PHG	Public Health Goal	=	Equal
MRDL	Maximum Residual Disinfectant Level	ppb	parts per billion or micrograms per liter (µg/L)	>	Greater than
MRDLG	Maximum Residual Disinfectant Level Goal	ppm	parts per million or milligrams per liter (mg/L)	<	Less than
				≤	Less than or equal to
				#	Number
				%	Percent

DEFINITIONS

90th Percentile: The value in a data set in which 90 percent of the set is less than or equal to this value.

Disinfection By-Product: Compounds which are formed from mixing of organic or mineral precursors in the water with ozone, chlorine or chloramine. Bromate, Total Trihalomethanes, and Haloacetic Acids are disinfection by-products.

Locational Running Annual Average (LRAA): The Running Annual Average (RAA) at one sample location.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the Public Health Goals (PHGs)

or Maximum Contaminant Level Goals (MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Notification Level (NL): Notification levels are health-based advisory levels established by the State Board for chemicals in drinking water that lack MCLs.

Primary Drinking Water Standard (Primary Standard): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Running Annual Average (RAA): The yearly average which is calculated every 3 months using the previous 12 months' data.

Secondary Drinking Water Standard (Secondary Standard): MCLs for contaminants that do not affect health but are used to monitor the aesthetics of the water.

Treatment Technique (TT): A required treatment process intended to reduce the level of a contaminant in drinking water.



EASTERN MUNICIPAL WATER DISTRICT DISTRIBUTION SYSTEM DATA FOR 2019

Parameter	Units	State or Federal Maximum Contaminant Level (MCL)	California Public Health Goal (PHG)	State Detection Limit for Reporting (DLR)	Range / Average	EMWD's Entire Distribution System	SERVICE AREA		
							Mills	East Valley	Skinner
PRIMARY STANDARDS - MANDATORY HEALTH-RELATED STANDARDS									
MICROBIOLOGICAL									
Total Coliform Bacteria	# positive coliforms	A	MCLG = 0	NA	# positives in 2019 Highest monthly %	2 0.4	1 ---	1 ---	0 ---
Fecal Coliform Bacteria (<i>E. coli</i>)	# positive <i>E. coli</i>	B	MCLG = 0	NA	# positives in 2019	0	0	0	0
Heterotrophic Plate Count (HPC)	# HPCs > 500 CFU/mL	C	NA	NA	# HPC>500 in 2019 Lowest monthly %	14 96.6	11 ---	0 ---	3 ---
DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS									
Bromate (Mills & Skinner plants only) D	ppb	RAA = 10	0.1	1.0	Range Highest RAA	--- ---	ND - 7.3 3.6	--- ---	ND - 10 2.8
Haloacetic Acids (5) (HAA5s) E	ppb	LRAA = 60	NA	E	Range Highest LRAA	0 - 22 17	0 - 19 17	0 - 22 17	0 - 13 9.9
Total Trihalomethanes (TTHMs) F	ppb	LRAA = 80	NA	1	Range Highest LRAA	3.7 - 74 59	18 - 62 51	3.7 - 74 59	7.9 - 54 30
Total Chlorine Residual Chlorine and Chloramines	ppm	MRDL = 4.0 as Cl ₂	MRDLG = 4.0 as Cl ₂	NA	Range Average	ND - 4.8 1.5	ND - 4.0 1.4	ND - 3.3 1.6	ND - 4.8 1.6
SECONDARY STANDARDS - AESTHETIC STANDARDS									
PHYSICAL PARAMETERS G									
Color	Units	15	NA	NA	Range Average	ND - 7 ND	ND - 5 ND	NR ND	ND - 7 ND
Odor Threshold	TON	3	NA	1	Range Average	ND - 1 ND	ND - 1 ND	ND - 1 ND	ND - 1 ND
pH	pH unit	6.5 - 8.5	NA	NA	Range Average	7.0 - 8.8 8.1	7.0 - 8.8 8.2	7.3 - 8.6 8.1	7.4 - 8.5 8.0
Turbidity	NTU	5	NA	0.1	Range Average	ND - 0.9 0.2	ND - 0.9 0.2	ND - 0.3 0.2	ND - 0.8 0.2
UNREGULATED CONTAMINANT MONITORING H									
Haloacetic Acids (HAA5) I	ppb	NA	NA	NA	Range Average	ND - 17 5.4	ND - 17 4.9	1.2 - 11 5.4	3.6 - 7.7 5.8
Haloacetic Acids (HAA6Br) I	ppb	NA	NA	NA	Range Average	ND - 32 8.5	ND - 32 8.2	2.4 - 23 10	5.6 - 8.5 7.5
Haloacetic Acids (HAA9) I	ppb	NA	NA	NA	Range Average	ND - 41 11	ND - 41 11	1.7 - 25 13	7.8 - 15 11

The State Board allows EMWD to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Data presented is from

sampling completed in 2019, unless otherwise indicated. Some of EMWD's data, though representative, are more than one year old. EMWD supports science-based standards that provide health

benefits to the public in an economically balanced manner. Should more stringent standards be set, EMWD will meet them. EMWD's water has met and will continue to meet all regulations.



FOOTNOTES

- A** Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. Compliance is based on distribution system samples. EMWD analyzed 3,118 coliform samples in 2019, two of which were total coliform positive. The highest monthly coliform result was 0.4%. The MCL was not violated in 2019.
- B** Fecal coliform/*E. coli* MCLs: An MCL violation is the occurrence of two (2) consecutive total coliform-positive samples, one of which contains fecal coliform or *E. coli*. There were zero detected fecal coliforms. The MCL was not violated in 2019.
- C** HPCs were tested only in distribution system samples which had no detectable chlorine residual. No less than 95% of all distribution system samples in one month may have no detectable chlorine residual and an HPC greater than 500 colony forming units per mL. The HPC results were no less than 96.6% in any month in 2019.

- D** Bromate is a disinfection by-product resulting from the use of ozone. Currently, the Mills and Skinner Filtration plants use ozone.
- E** DLR = 1.0 ppb for each Haloacetic Acid 5 (HAA5) analyte (dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid) except for monochloroacetic acid which has a DLR = 2.0 ppb. Locational running annual averages and ranges are calculated from 12 samples sites collected quarterly throughout the distribution system. HAA5s are a by-product of drinking water chlorination.
- F** Total Trihalomethanes (TTHMs) are the sum of the following analytes: bromodichloromethane, bromoform, chloroform, and dibromochloromethane. Locational Running Annual Averages (LRAA) and ranges are calculated from 12 sample sites collected quarterly throughout the distribution system. TTHMs are a by-product of drinking water chlorination.

- G** Compliance for physical parameters is determined by the average, however all samples are reviewed and any values outside the compliance range may be noted and corrected if possible. Values above the MCL may be acceptable so long as the average complies with the MCL.
- H** Unregulated contaminant monitoring spanned throughout 2019; the last sampling event occurred in first quarter of 2020.
- I** Haloacetic Acids: HAA9 - sum of dichloroacetic acid (DCAA), monochloroacetic acid (MCAA), trichloroacetic acid (TCAA), monobromoacetic acid (MBAA), dibromoacetic acid (DBAA), bromochloroacetic acid (BCAA), bromodichloroacetic acid (BDCAA), chlorodibromoacetic acid (CDBAA), and tribromoacetic acid (TBAA). HAA6Br - sum of MBAA, DBAA, BCAA, BDCAA, CDBAA, TBAA. HAA5 - sum of DCAA, MCAA, TCAA, MBAA, DBAA.

WE ARE REQUIRED TO MONITOR YOUR DRINKING WATER FOR SPECIFIC CONTAMINANTS ON A REGULAR BASIS.

Parameter	Units	State or Federal Maximum Contaminant Level (MCL)	California Public Health Goal (PHG)	State Detection Limit for Reporting (DLR)
Percent of total water delivered by EMWD	%			
PRIMARY STANDARDS - MANDATORY HEALTH-RELATED STANDARDS				
CLARITY				
Combined Filter Effluent Turbidity	NTU and %	K	NA	NA
INORGANIC CHEMICALS				
Aluminum	ppb	1000 L 200	600	50
Arsenic M	ppb	10	0.004	2
Barium	ppm	1	2	0.1
Fluoride N	ppm	2.0	1	0.1
Nitrate (as N)	ppm	10	10	0.4
Selenium	ppb	50	30	5
RADIOLOGICALS				
Gross Alpha Particle Activity	pCi/L	15	MCLG = 0	3
Gross Beta Particle Activity	pCi/L	50	MCLG = 0	4
Uranium	pCi/L	20	0.43	1
SECONDARY STANDARDS - AESTHETIC STANDARDS				
Chloride	ppm	500	NA	NA
Specific Conductance	µS/cm	1600	NA	NA
Foaming Agents (MBAS)	ppm	0.5	NA	0.05
Sulfate	ppm	500	NA	0.5
Total Dissolved Solids (TDS)	ppm	1000	NA	NA
Turbidity P	NTU	5	NA	0.1

MENIFEE, MORENO VALLEY, NORTH CANYON LAKE, PERRIS					
Mills Filtration Plant		Perris Valley Wells J		Perris Filtration Plant	
38.6%		1.7%		19.4%	
Range	Average	Range	Average	Range	Average
Highest NTU	% ≤ 0.3			Highest NTU	% ≤ 0.1
0.06	100	---	---	0.10	99.9
ND - 94	ND	NR	ND	NR	ND
NR	ND	NR	ND	NR	2
NR	ND	NR	0.15	NR	ND
0.1 - 0.9	0.7	NR	0.4	ND - 0.3	ND
NR	0.6	3.2 - 5.1	3.8	ND - 0.7	ND
NR	ND	NR	5.1	NR	ND
NR	ND	NR	16.3 O	NR	3.2
NR	ND	NR - 4.8	ND	NR	ND
NR	ND	NR	10	NR	ND
38 - 44	41	NR	210	38 - 110	82
299 - 343	321	940 - 1300	1100	260 - 980	520
NR	ND	NR	0.15	NR	ND
24 - 39	32	NR	43	15 - 240	54
163 - 196	180	580 - 860	750	140 - 600	290
NR	ND	NR	ND	ND - 0.1	ND

FOOTNOTES

- J** Values are from blended Well 57 and raw well values from other wells in area. Well 57 is blended on site with Mills water to improve Total Dissolved Solids.
- K** The turbidity level of the combined filter effluent at the Mills and Skinner Filtration plants shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1 NTU at any time. For the Perris and Hemet Filtration plants, the turbidity level of the combined filter effluent shall be less than or equal to 0.1 NTU in 95% of the measurements taken each month and shall not exceed 1 NTU at any time. Turbidity is a measure of the cloudiness of the water, is regulated as a treatment technique (TT) and is an indicator of treatment performance.

- L** Aluminum has both primary (1,000 ppb) and secondary (200 ppb) standards (MCLs).
- M** While your drinking water meets the federal and state standard for arsenic, some of our sources do contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

- N** Metropolitan began fluoride treatment of water at Mills and Skinner Filtration plants in 2007.
- O** Compliance for gross alpha (GA) is determined by the net gross alpha. The net GA (Net GA= GA - Uranium) for Perris wells is 6.3 pCi/L
- P** Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance. Secondary standards were based either on the treatment plant effluent or raw well water.

EASTERN MUNICIPAL WATER DISTRICT 2019 WATER QUALITY TABLE

RESULTS ARE AN INDICATOR OF WHETHER OR NOT YOUR DRINKING WATER MEETS HEALTH STANDARDS.

& WILDOMAR		MURRIETA		HEMET & SAN JACINTO				Major Sources in Drinking Water
Menifee and Perris Desalters		Skinner Filtration Plant		East Valley Wells		Hemet Filtration Plant		
9.8%		15.7%		9.1%		5.6%		
Range	Average	Range	Average	Range	Average	Range	Average	
		Highest NTU	% ≤ 0.3			Highest NTU	% ≤ 0.1	
---	---	0.07	100	---	---	0.27	99.3	Soil runoff
NR	ND	ND - 94	51	NR	ND	NR	ND	Residue from water treatment process; natural deposits erosion
NR	ND	NR	ND	ND - 4.2	ND	NR	ND	Natural deposits erosion; runoff from orchards; glass and electronics production wastes
NR	ND	NR	ND	NR	ND	NR	ND	Discharges of oil drilling wastes and from metal refineries; natural deposits erosion
NR	ND	0.3 - 0.8	0.7	0.2 - 0.4	0.3	ND - 0.1	ND	Erosion of natural deposits; discharge from fertilizer and aluminum factories; water additive to promote strong teeth
1.2 - 2.4	2.0	NR	ND	ND - 4.0	1.2	NR	ND	Runoff/leaching from fertilizer use; septic tank and sewage; natural deposits erosion
NR	ND	NR	ND	ND - 17	ND	NR	ND	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
NR	3.1	ND - 4	ND	NR	3.6	NR	ND	Erosion of natural deposits
NR	ND	ND - 5	ND	ND	NR	NR	ND	Decay of natural and man-made deposits
NR	ND	ND - 3	ND	ND - 4.5	1.4	NR	ND	Erosion of natural deposits
120 - 150	140	68 - 78	73	9.9 - 97	31	34 - 100	68	Runoff/leaching from natural deposits; seawater influence
ND - 660	580	576 - 644	610	280 - 940	470	250 - 660	420	Substances that form ions in water; seawater influence
NR	ND	NR	ND	NR	0.07	NR	ND	Municipal and industrial waste discharges
17 - 25	21	90 - 108	99	9.3 - 220	68	15 - 48	31	Runoff/leaching from natural deposits; industrial wastes
280 - 480	380	330 - 379	354	180 - 630	300	130 - 320	230	Runoff/leaching from natural deposits; seawater influence
NR	ND	NR	ND	0.1 - 1.1	0.3	ND - 0.3	0.1	Soil runoff

2018 Data ND – Non-Detected NR – No Range

The State Board allows EMWD to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Data presented is from sampling completed in 2019, unless otherwise indicated. Some of EMWD's data, though representative, are more than one year old.

EMWD supports science-based standards that provide health benefits to the public in an economically balanced manner. Should more stringent standards be set, EMWD will meet them. EMWD's water has met and will continue to meet all regulations.

Unregulated contaminant monitoring helps EPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.

ONE PART PER MILLION (PPM) (mg/L) IS LIKE

- 1 second in 11.5 days
- 1 teaspoon in 1,302 gallons
- 1 drop in 13.6 gallons

ONE PART PER BILLION (PPB) (ug/L) IS LIKE

- 1 second in nearly 32 years
- 1 teaspoon in 1.3 million gallons
- 1 drop in 13,563 gallons

ONE PART PER TRILLION (PPT) (ng/L) IS LIKE

- 1 second in nearly 32,000 years
- 1 teaspoon in 1.3 billion gallons
- 1 drop in 13,563,368 gallons

EASTERN MUNICIPAL WATER DISTRICT 2019 WATER QUALITY TABLE

WE ARE REQUIRED TO MONITOR YOUR DRINKING WATER FOR SPECIFIC CONTAMINANTS ON A REGULAR BASIS.

Parameter	Units	State or Federal Maximum Contaminant Level (MCL)	California Public Health Goal (PHG)	State Detection Limit for Reporting (DLR)
UNREGULATED CONTAMINANT MONITORING ^H				
Germanium	ppb	NA	NA	0.3
Manganese	ppb	MCL = 50 NL = 500	NA	0.4
OTHER PARAMETERS				
Alkalinity (Total)	ppm	NA	NA	NA
Boron	ppb	NL = 1000	NA	100
Calcium	ppm	NA	NA	NA
Hardness as Calcium Carbonate ^Q	grains/gallon	NA	NA	NA
Magnesium	ppm	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	ppt	NL = 6.5	NA	RL = 2
Perfluorooctanoic Acid (PFOA)	ppt	NL = 5.1	NA	RL = 2
Potassium	ppm	NA	NA	NA
Sodium	ppm	NA	NA	NA
Vanadium	ppb	NL = 50	NA	3

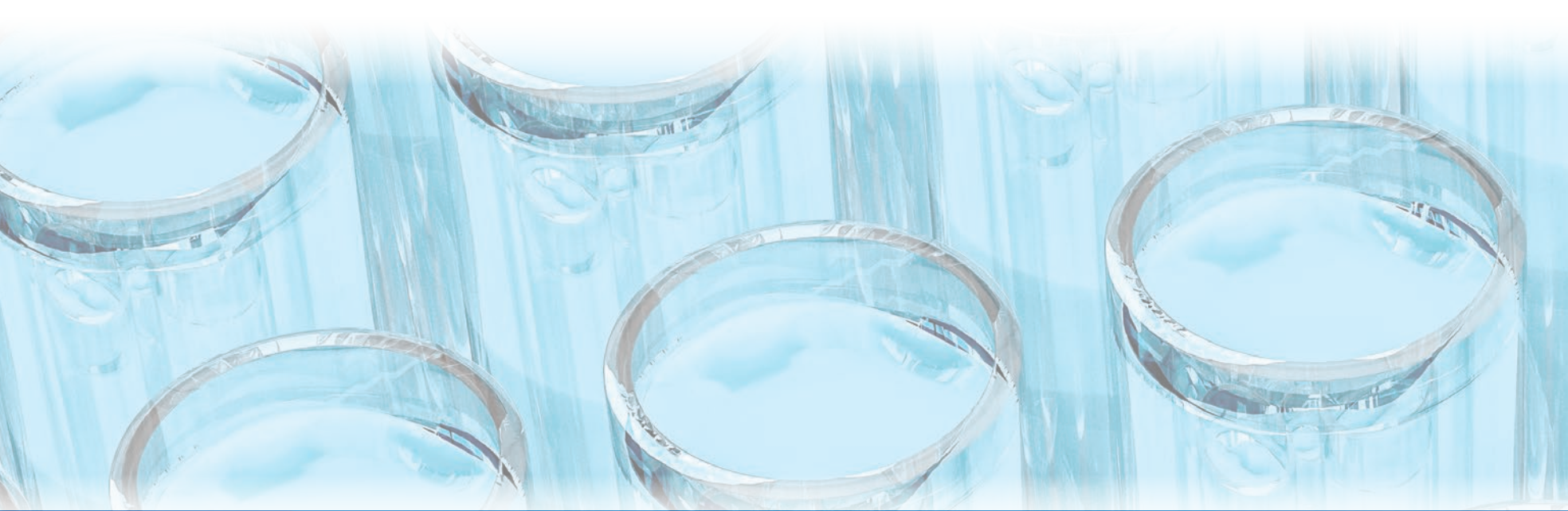
MENIFEE, MORENO VALLEY, NORTH CANYON LAKE, PERRIS					
Mills Filtration Plant		Perris Valley Wells ^J		Perris Filtration Plant	
Range	Average	Range	Average	Range	Average
NR	ND	0.34 - 0.37	0.36	NR	ND
2.0 - 12	5.5	0.48 - 2.9	1.7	ND - 15	4.3
54 - 59	56	NR	110	59 - 140	83
NR	120	NR	290	ND - 230	130
14 - 16	15	NR	88	13 - 70	25
3.9 - 4.4	4.1	NR	18	3.8 - 16	6.4
8.0 - 8.5	8.2	NR	22	7.4 - 25	12
NR	ND	NR	ND	NR	ND
NR	ND	NR	ND	NR	ND
1.8 - 2.2	2.0	NR	3.1	ND - 3.6	2.2
33 - 40	36	NR	83	31 - 100	61
NR	ND	--	--	--	--

FOOTNOTES

^H Unregulated contaminant monitoring spanned throughout 2019; the last sampling event occurred in first quarter of 2020.

^J Values are from blended Well 57 and raw well values from other wells in area. Well 57 is blended on site with Mills water to improve Total Dissolved Solids.

^Q Water hardness, measured in grains per gallon as calcium carbonate, is characterized by the following scale: 0 – 4.4 is soft, 4.4 – 8.8 is moderately hard, 8.8 – 17.5 is hard and greater than 17.5 is very hard.



RESULTS ARE AN INDICATOR OF WHETHER OR NOT YOUR DRINKING WATER MEETS HEALTH STANDARDS.

& WILDOMAR		MURRIETA		HEMET & SAN JACINTO				Major Sources in Drinking Water
Menifee and Perris Desalters		Skinner Filtration Plant		East Valley Wells		Hemet Filtration Plant		
Range	Average	Range	Average	Range	Average	Range	Average	
NR	ND	NR	ND	NR	ND	NR	ND	Naturally-occurring element
NR	ND	1.5 - 6.9	3.8	ND - 81	13	NR	ND	Leaching from natural deposits
33 - 61	46	54 - 87	86	110 - 170	140	61 - 93	74	Naturally-occurring carbonates; measures water's ability to neutralize acid
150 - 630	280	NR	120	ND - 230	ND	ND - 230	ND	Runoff/leaching from natural deposits; industrial wastes
31 - 45	40	33 - 39	36	34 - 87	53	13 - 35	19	Naturally-occurring mineral
5.8 - 8.8	7.8	8.1 - 9.6	8.9	5.6 - 16	8.8	3.6 - 11	5.3	Naturally-occurring; the sum of calcium and magnesium in the water
6.3 - 10	8.5	14 - 16	15	2.3 - 16	6.1	6.7 - 21	10	Naturally-occurring mineral
ND - 4	ND	NR	ND	NR	ND	NR	ND	Industrial chemical factory discharges; runoff or leaching from landfills; used in fire-retardant foams and various industrial processes
ND - ND*	2.8	NR	ND	NR	ND	NR	ND	Industrial chemical factory discharges; runoff or leaching from landfills; used in fire-retardant foams and various industrial processes
ND - 1.9	1.1	3.3 - 3.6	3.4	2.6 - 7.4	4.2	ND - 5.5	2	Naturally-occurring mineral
48 - 71	58	62 - 69	66	29 - 91	44	29 - 99	51	Naturally-occurring mineral
NR	5.6	NR	ND	--	--	--	--	Naturally occurring; industrial waste discharge

*An estimated value of 4.7 ppt was detected under a reporting limit of 20 ppt in January of 2019. Due to advances in technology and laboratory methods, detection limits for both PFOA and PFOS decreased from 20 ppt to 2 ppt. Values above an MDL but below a RL are estimates.

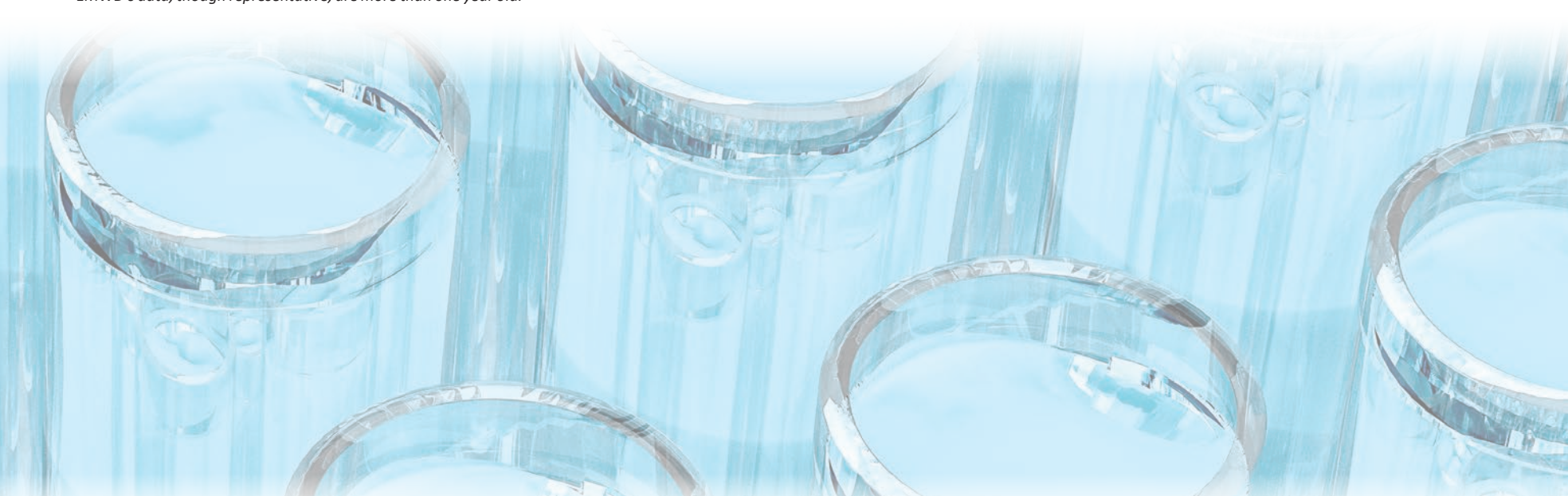
ND – Non-Detected

NR – No Range

The State Board allows EMWD to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Data presented is from sampling completed in 2019, unless otherwise indicated. Some of EMWD's data, though representative, are more than one year old.

EMWD supports science-based standards that provide health benefits to the public in an economically balanced manner. Should more stringent standards be set, EMWD will meet them. EMWD's water has met and will continue to meet all regulations.

Unregulated contaminant monitoring helps EPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.





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Your 2019 Water Quality

CONSUMER CONFIDENCE REPORT

Issued July 2020

DO YOU WANT A PAPER OR ELECTRONIC COPY OF THIS REPORT?

The choice is yours! It's easy to tell us how you want to receive future water quality reports, or if you would like to change your current delivery method.

Just use one of the following options:

1. Tell us on-line at www.emwd.org/CCR.
2. Call **951-928-3777, extension 3430**.

Public Meetings

EMWD's Board of Directors meetings are generally held on the 1st and 3rd Wednesdays of each month beginning at 9:00 a.m.

If you wish to attend a meeting, please call the Board Secretary during normal business hours at **951-928-3777, extension 4235** to confirm meeting dates or check the Board Meeting Calendar online at www.emwd.org/BoardMeetings.

For more information on this report, contact: Water Quality **(951) 928-3777, extension 3327** or visit www.emwd.org/WaterQuality.

Why You Should Read This Report

THIS YEAR'S DRINKING WATER QUALITY REPORT...

- Examines how EMWD ensures your drinking water is safe, high quality, and reliable.
- Provides science-based data and facts about the sources, quality, and safety of your drinking water.
- Explains how customers can always choose how they wish to receive future water quality reports.

Would You Like to Receive This Report in Spanish?

IF YOU WOULD LIKE TO OBTAIN THIS INFORMATION IN SPANISH, VISIT WWW.EMWD.ORG/CCR AND SELECT "ESPAÑOL" OR CALL (951) 928-3777 EXT. 4326 FOR A SPANISH COPY BY MAIL.

ESTE INFORME CONTIENE INFORMACIÓN IMPORTANTE CON SOBRE LA CALIDAD DE SU AGUA. SI USTED DESEA OBTENER INFORMACIÓN EN ESPAÑOL, VISITA WWW.EMWD.ORG/CCR Y SELECCIONE "ESPAÑOL" O LLAME (951) 928-3777, EXT. 4326 PARA SOLICITAR UNA COPIA POR CORREO.



May 11, 2021

California Regional Water Quality Control Board – Santa Ana Region (8)
Underground Storage Tank (UST) File Review Division
3737 Main Street, Suite #500
Riverside, CA 92501-3348
Phone (951) 782-4499
Fax (951) 781-6288
FileReview8@waterboards.ca.gov

RE: Environmental Files:

330-210-010, -011, -013, -065;330210003, 33021004, 33021005, 33021008,
26399 Murrieta Road, Menifee, CA; 26429 Murrieta Road, Menifee CA;
25931 Elm Street, Menifee CA
25981 Elm Street, Menifee, CA

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. We would like to know if any environmental files (UST, groundwater, wells, etc.) exist for this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you.

Sincerely,

Shilpa Sunil
Environmental Project Manager
Hillmann Consulting, LLC
ssunil@hillmannconsulting.com

Your Property. Our Priority.

1745 W. Orangewood Avenue, Suite 201, Orange, CA 92868
Telephone (714) 634-9500 Fax: (714) 634-9507



John Snyder
AGRICULTURAL COMMISSIONER/
SEALER OF WEIGHTS & MEASURES

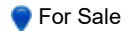
Riverside County

Agricultural Commissioner's Office
4080 Lemon Street, Room 19, PO Box 1089,
Riverside, CA 92502-1089
Phone: (951) 955-3045 FAX (951) 955-3047
<http://www.rivcoag.org>

REQUEST FOR PUBLIC RECORDS

A. REQUESTOR:		DATE:
COMPANY:		PHONE NUMBER (DAYTIME):
MAILING ADDRESS:	CITY/STATE:	ZIP CODE:
E-MAIL ADDRESS:		
B. I request the following records from the Riverside County Agricultural Commissioner's Office pertaining to: <input type="checkbox"/> WEIGHTS & MEASURES <input type="checkbox"/> PESTICIDE REGULATION <input type="checkbox"/> PEST EXCLUSION/NURSERY <input type="checkbox"/> Other Program - Please Specify: _____		
Please describe desired records in detail: _____ _____ _____ _____ _____		
(Attach Additional Sheet If Required)		
C. I request these records in the following format: <input type="checkbox"/> Review records in person No Fee <input type="checkbox"/> Fax records (existing format) No Fee <input type="checkbox"/> E-Mail records (existing format) No Fee <input type="checkbox"/> Copies \$.50 per page for first copy; \$.50 per copy for subsequent copies of same page (8½" x 11" size paper) <input type="checkbox"/> Data compilation, extraction, programming, reformatting \$_____ per hour		
Signature of Requestor: _____		

Please complete all boxes A - C Thank-you

**Owner Information**

Owner Name: **ROMERO MARIA E LVNG TRUST**
 Mailing Address: **25955 FLOYD AVE, SUN CITY CA 92585-9035 R030**
 Vesting Codes: **// RT**

Location Information

Legal Description: **1.03 ACRES NET IN PAR 4 PM 026/056 PM 7285**
 County: **RIVERSIDE, CA** APN: **330-210-013**
 Census Tract / Block: **427.31 / 1** Alternate APN: **330-210-013**
 Township-Range-Sect: Subdivision:
 Legal Book/Page: Map Reference: **/**
 Legal Lot: **4** Tract #:
 Legal Block: School District: **PERRIS UN**
 Market Area: **225** School District Name: **PERRIS UN**
 Neighbor Code: Munic/Township: **CITY OF MENIFEE**

Owner Transfer Information

Recording/Sale Date: **11/10/2020 / 10/16/2020** Deed Type: **GRANT DEED**
 Sale Price: 1st Mtg Document #:
 Document #: **556452**

Last Market Sale Information

Recording/Sale Date: **07/06/2001 / 04/30/2001** 1st Mtg Amount/Type: **\$72,000 / CONV**
 Sale Price: **\$90,000** 1st Mtg Int. Rate/Type: **/**
 Sale Type: **FULL** 1st Mtg Document #: **311983**
 Document #: **311982** 2nd Mtg Amount/Type: **/**
 Deed Type: **GRANT DEED** 2nd Mtg Int. Rate/Type: **/**
 Transfer Document #: Price Per SqFt: **\$62.50**
 New Construction: Multi/Split Sale:

Title Company: **LAWYERS TITLE**
 Lender: **GREENPOINT MTG FNDG**
 Seller Name: **GARDNER JERRY R**

Prior Sale Information

Prior Rec/Sale Date: **07/15/1998 / 06/25/1998** Prior Lender: **HEMET FED'L S&L**
 Prior Sale Price: **\$60,000** Prior 1st Mtg Amt/Type: **\$48,000 / CONV**
 Prior Doc Number: **291794** Prior 1st Mtg Rate/Type: **6.37 / FIXED RATE LOAN**
 Prior Deed Type: **GRANT DEED**

Property Characteristics

Gross Area: 1,440	Parking Type: DETACHED GARAGE	Construction:
Living Area: 1,440	Garage Area: 768	Heat Type: CENTRAL
Tot Adj Area: 1,440	Garage Capacity:	Exterior wall:
Above Grade:	Parking Spaces: 1	Porch Type:
Total Rooms:	Basement Area:	Patio Type:
Bedrooms: 2	Finish Bsmnt Area:	Pool:
Bath(F/H): 2 /	Basement Type:	Air Cond: CENTRAL
Year Built / Eff: 1978 /	Roof Type:	Style:
Fireplace: Y /	Foundation:	Quality:
# of Stories: 1	Roof Material: GRAVEL & ROCK	Condition:

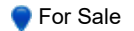
Other Improvements: **Building Permit**

Site Information

Zoning: **R-R** Acres: **1.03** County Use: **MH ON FOUNDATION (MF) (AT6)**
 Lot Area: **44,867** Lot Width/Depth: **x** State Use: **M02**
 Land Use: **MOBILE HOME** Res/Comm Units: **/** Water Type: **TYPE UNKNOWN**
 Site Influence: Sewer Type: **NONE**

Tax Information

Total Value: \$121,544	Assessed Year: 2020	Property Tax: \$1,362.40
Land Value: \$59,422	Improved %: 51%	Tax Area: 026199
Improvement Value: \$62,122	Tax Year: 2020	Tax Exemption:
Total Taxable Value: \$121,544		

**Owner Information**

Owner Name: **ROMERO MARIA E LIV TRUST**
 Mailing Address: **25955 FLOYD AVE, SUN CITY CA 92585-9035 R030**
 Vesting Codes: **// RT**

Location Information

Legal Description: **1.24 ACRES M/L IN POR PAR B AND PAR 1 PM 026/056 PM 7285**
 County: **RIVERSIDE, CA** APN: **330-210-010**
 Census Tract / Block: **427.31 / 1** Alternate APN: **330-210-010**
 Township-Range-Sect: Subdivision:
 Legal Book/Page: Map Reference: **/**
 Legal Lot: **B** Tract #:
 Legal Block: School District: **PERRIS UN**
 Market Area: **225** School District Name: **PERRIS UN**
 Neighbor Code: Munic/Township: **CITY OF MENIFEE**

Owner Transfer Information

Recording/Sale Date: **11/10/2020 / 10/16/2020** Deed Type: **GRANT DEED**
 Sale Price: 1st Mtg Document #:
 Document #: **556453**

Last Market Sale Information

Recording/Sale Date: **07/06/2001 / 04/30/2001** 1st Mtg Amount/Type: **\$88,000 / CONV**
 Sale Price: **\$110,000** 1st Mtg Int. Rate/Type: **7.25 / ADJ**
 Sale Type: **FULL** 1st Mtg Document #: **311981**
 Document #: **311980** 2nd Mtg Amount/Type: **/**
 Deed Type: **GRANT DEED** 2nd Mtg Int. Rate/Type: **/**
 Transfer Document #: Price Per SqFt: **\$76.39**
 New Construction: Multi/Split Sale:
 Title Company: **LAWYERS TITLE**
 Lender: **GREENPOINT MTG FNDG**
 Seller Name: **GARDNER JERRY R**

Prior Sale Information

Prior Rec/Sale Date: **07/15/1998 / 06/25/1998** Prior Lender: **HEMET FED'L S&L**
 Prior Sale Price: **\$80,000** Prior 1st Mtg Amt/Type: **\$76,000 / CONV**
 Prior Doc Number: **291799** Prior 1st Mtg Rate/Type: **7.12 / FIXED RATE LOAN**
 Prior Deed Type: **GRANT DEED**

Property Characteristics

Gross Area: **1,440** Parking Type: **DETACHED GARAGE** Construction:
 Living Area: **1,440** Garage Area: **780** Heat Type: **CENTRAL**
 Tot Adj Area: **1,440** Garage Capacity:
 Above Grade: Parking Spaces: **4** Exterior wall:
 Total Rooms: Basement Area: Porch Type:
 Bedrooms: **2** Finish Bsmnt Area: Patio Type:
 Bath(F/H): **2 /** Basement Type: Pool:
 Year Built / Eff: **1980 /** Roof Type: Air Cond: **CENTRAL**
 Fireplace: **Y /** Foundation: Style:
 # of Stories: **1** Roof Material: **GRAVEL & ROCK** Quality:
 Other Improvements: **Building Permit** Condition:

Site Information

Zoning: **R-R** Acres: **1.24** County Use: **MH ON FOUNDATION (MF) (AT6)**
 Lot Area: **54,014** Lot Width/Depth: **x** State Use: **M02**
 Land Use: **MOBILE HOME** Res/Comm Units: **/** Water Type: **TYPE UNKNOWN**
 Site Influence: Sewer Type: **NONE**

Tax Information

Total Value: **\$143,163** Assessed Year: **2020** Property Tax: **\$1,604.60**
 Land Value: **\$67,532** Improved %: **53%** Tax Area: **026199**
 Improvement Value: **\$75,631** Tax Year: **2020** Tax Exemption:
 Total Taxable Value: **\$143,163**

Owner Information

Owner Name: **SANTANA JOSE I RUIZ**
 Mailing Address: **25981 ELM ST, MENIFEE CA 92585-9535 R030**
 Vesting Codes: **//**

Location Information

Legal Description: **1.12 ACRES M/L IN POR PARS B & 3 PM 026/056 PM 7285**
 County: **RIVERSIDE, CA** APN: **330-210-062**
 Census Tract / Block: **427.28 / 1** Alternate APN: **330-210-062**
 Township-Range-Sect: Subdivision:
 Legal Book/Page: Map Reference: **/**
 Legal Lot: Tract #:
 Legal Block: School District:
 Market Area: School District Name:
 Neighbor Code: Munic/Township: **CITY OF MENIFEE**

Owner Transfer Information

Recording/Sale Date: **/** Deed Type:
 Sale Price: 1st Mtg Document #:
 Document #:

Last Market Sale Information

Recording/Sale Date: **03/04/2014 / 02/25/2014** 1st Mtg Amount/Type: **/**
 Sale Price: **\$185,000** 1st Mtg Int. Rate/Type: **/**
 Sale Type: **FULL** 1st Mtg Document #: **/**
 Document #: **81952** 2nd Mtg Amount/Type: **/**
 Deed Type: **GRANT DEED** 2nd Mtg Int. Rate/Type: **/**
 Transfer Document #: Price Per SqFt: **\$148.24**
 New Construction: Multi/Split Sale:
 Title Company: **EQUITY TITLE**
 Lender:
 Seller Name: **MAYES JERRY & PATRICIA**

Prior Sale Information

Prior Rec/Sale Date: **/** Prior Lender:
 Prior Sale Price: Prior 1st Mtg Amt/Type: **/**
 Prior Doc Number: Prior 1st Mtg Rate/Type: **/**
 Prior Deed Type:

Property Characteristics

Gross Area: **1,248** Parking Type: Construction:
 Living Area: **1,248** Garage Area: Heat Type:
 Tot Adj Area: Garage Capacity: Exterior wall:
 Above Grade: Parking Spaces: Porch Type:
 Total Rooms: Basement Area: Patio Type:
 Bedrooms: **3** Finish Bsmnt Area: Pool:
 Bath(F/H): **2 /** Basement Type: Air Cond:
 Year Built / Eff: **/** Roof Type: Style:
 Fireplace: **/** Foundation: Quality:
 # of Stories: Roof Material: **GRAVEL & ROCK** Condition:

Other Improvements: **Building Permit**

Site Information

Zoning: Acres: **1.12** County Use: **MH LOT WITH MH ON LPT (MO) (BN3)**
 Lot Area: **48,787** Lot Width/Depth: **x** State Use:
 Land Use: **MOBILE HOME** Res/Comm Units: **/** Water Type:
 Site Influence: Sewer Type:

Tax Information

Total Value: **\$207,359** Assessed Year: **2020** Property Tax: **\$2,232.92**
 Land Value: **\$72,574** Improved %: **65%** Tax Area: **026199**
 Improvement Value: **\$134,785** Tax Year: **2020** Tax Exemption: **HOMEOWNER**
 Total Taxable Value: **\$200,359**

Owner Information

Owner Name: **SALAS PETER JR**
 Mailing Address: **PO BOX 2268, SUN CITY CA 92586-1268 B014**
 Vesting Codes: **//**

Location Information

Legal Description: **1.19 ACRES M/L IN POR PAR B AND PAR 2 PM 026/056 PM 7285**
 County: **RIVERSIDE, CA** APN: **330-210-011**
 Census Tract / Block: **427.28 / 1** Alternate APN: **330-210-011**
 Township-Range-Sect: Subdivision:
 Legal Book/Page: Map Reference: **/**
 Legal Lot: Tract #:
 Legal Block: School District:
 Market Area: School District Name:
 Neighbor Code: Munic/Township: **CITY OF MENIFEE**

Owner Transfer Information

Recording/Sale Date: **08/18/1997 /** Deed Type: **PERSONAL REPRESENTATIVE'S DEED**
 1st Mtg Document #:
 Sale Price: **\$5,500**
 Document #: **296235**

Last Market Sale Information

Recording/Sale Date: **/** 1st Mtg Amount/Type: **/**
 Sale Price: 1st Mtg Int. Rate/Type: **/**
 Sale Type: 1st Mtg Document #: **/**
 Document #: 2nd Mtg Amount/Type: **/**
 Deed Type: 2nd Mtg Int. Rate/Type: **/**
 Transfer Document #: Price Per SqFt:
 New Construction: Multi/Split Sale:
 Title Company:
 Lender:
 Seller Name:

Prior Sale Information

Prior Rec/Sale Date: **/** Prior Lender:
 Prior Sale Price: Prior 1st Mtg Amt/Type: **/**
 Prior Doc Number: Prior 1st Mtg Rate/Type: **/**
 Prior Deed Type:

Property Characteristics

Gross Area: **1,440** Parking Type: Construction:
 Living Area: **1,440** Garage Area: Heat Type:
 Tot Adj Area: Garage Capacity: Exterior wall:
 Above Grade: Parking Spaces: Porch Type:
 Total Rooms: Basement Area: Patio Type:
 Bedrooms: **2** Finish Bsmnt Area: Pool:
 Bath(F/H): **2 /** Basement Type: Air Cond:
 Year Built / Eff: **/** Roof Type: Style:
 Fireplace: **/** Foundation: Quality:
 # of Stories: Roof Material: **GRAVEL & ROCK** Condition:

Other Improvements: **Building Permit**

Site Information

Zoning: Acres: **1.19** County Use: **MH LOT WITH MH ON ILT (MR) (AT5)**
 Lot Area: **51,836** Lot Width/Depth: **x** State Use:
 Land Use: **MOBILE HOME** Res/Comm Units: **/** Water Type:
 Site Influence: Sewer Type:

Tax Information

Total Value: **\$80,267** Assessed Year: **2020** Property Tax: **\$833.12**
 Land Value: **\$58,384** Improved %: **27%** Tax Area: **026199**
 Improvement Value: **\$21,883** Tax Year: **2020** Tax Exemption: **HOMEOWNER**
 Total Taxable Value: **\$73,267**



County of Riverside
DEPARTMENT OF ENVIRONMENTAL HEALTH

www.rivcoeh.org

**Environmental Protection & Oversight Division
Hazardous Materials Management Branch**

REQUEST FOR RECORDS

Requests for review of records are processed on a first come, first serve basis and the processing time is approximately 2-4 weeks. As required by California Public Records Act Section 6250 et seq., a response will be given within ten (10) business days to confirm receipt of your request.

Pursuant to California Government Code, Section 6254 (f), records of pending investigations and informant's names, addresses, and telephone numbers, will not be released.

For access to electronic records available online, visit the Public Information section at www.rivcoeh.org for more details.

REQUESTOR INFORMATION		
NAME:	DATE OF REQUEST:	
BUSINESS NAME (IF ANY):		
RETURN LEGAL MAILING ADDRESS:		
CITY:	STATE:	ZIP:
PHONE:		

The following information is required. List each street address separately.

	SITE STREET ADDRESS (NO APNs)	CITY
1.		
2.		
3.		
4.		
5.		
6.		
7.		

Requests must be made in writing and submitted by mail, email, or in person to the following office:

4065 County Circle Drive, Room 104, Riverside, CA 92503
Phone: (951) 358-5055
Email: DEHRecordsMgmt@rivcoeh.org
Mailing Address: P.O. Box 7909, Riverside, CA 92513-7909

For our office locations call us at (888) 722-4234 or visit our website at www.rivcoeh.org



U.S. Environmental Protection Agency

MyProperty

Environmental Databases Search

The search of EPA's Facility Registry System did not locate any records for the search criteria provided below:

Search Criteria:

Street Address: 25981 elm street

City, State: Menifee, CA

Query executed on: 05/25/2021 11:06 AM EST

Contact the appropriate state, tribal or local agencies if you seek additional information.

Disclaimer

The MyProperty reports are provided solely for informational purposes. They do not provide legal advice, have legally binding effect, or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits in regard to any person. EPA maintains the application to enhance public access to environmental information. This service has continual data updates, and we will correct errors brought to our attention, as appropriate.



May 11, 2021

State of California
Department of Toxic Substances Control
Region 4 – Cypress Regional Office
5796 Corporate Avenue
Cypress, CA 90630-4732
Phone (714) 484-5337
Fax (714) 484-5318
PubReqAct@dtsc.ca.gov

RE: Environmental Files:

330-210-010, -011, -013, -065;330210003, 33021004, 33021005, 33021008,
26399 Murrieta Road, Menifee, CA; 26429 Murrieta Road, Menifee CA;
25931 Elm Street, Menifee CA
25981 Elm Street, Menifee, CA

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we are requesting any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you.

Sincerely,

Shilpa Sunil
Environmental Project Manager
Hillmann Consulting, LLC
ssunil@hillmannconsulting.com

Your Property. Our Priority.

1745 W. Orangewood Avenue, Suite 201, Orange, CA 92868

Telephone (714) 634-9500 Fax: (714) 634-9507

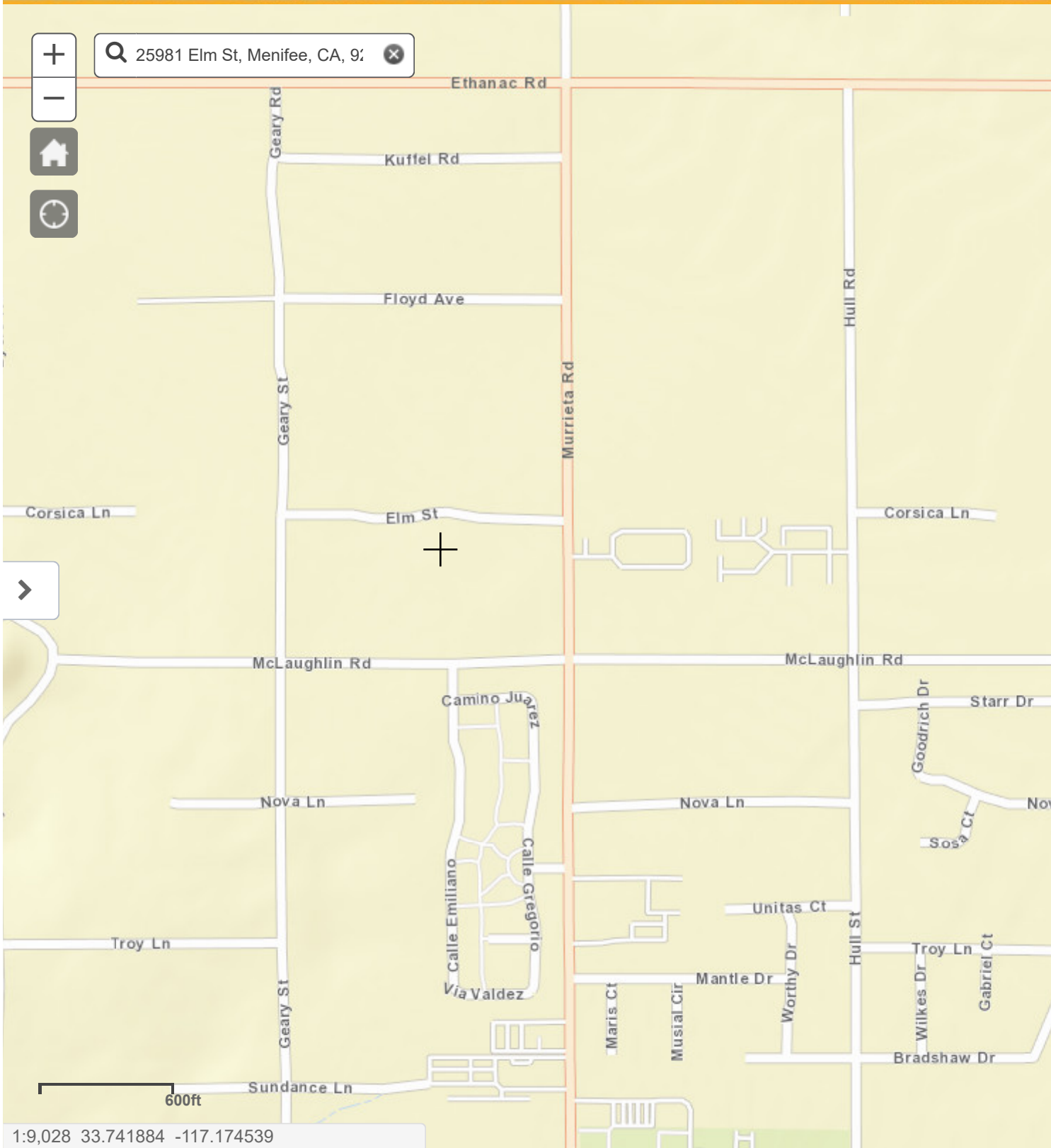
www.HillmannConsulting.com



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CalGEM GIS

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County of Riverside DEPARTMENT OF ENVIRONMENTAL HEALTH

www.rivcoeh.org

Environmental Protection & Oversight Division Hazardous Materials Management Branch

REQUEST FOR RECORDS

Requests for review of records are processed on a first come, first serve basis and the processing time is approximately 2-4 weeks. As required by California Public Records Act Section 6250 et seq., a response will be given within ten (10) business days to confirm receipt of your request.

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NAME:	DATE OF REQUEST:	
BUSINESS NAME (IF ANY):		
RETURN LEGAL MAILING ADDRESS:		
CITY:	STATE:	ZIP:
PHONE:		

The following information is required. List each street address separately.

	SITE STREET ADDRESS (NO APNs)	CITY
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4065 County Circle Drive, Room 104, Riverside, CA 92503
Phone: (951) 358-5055
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Mailing Address: P.O. Box 7909, Riverside, CA 92513-7909

For our office locations call us at (888) 722-4234 or visit our website at www.rivcoeh.org

APPENDIX G

PROJECT PERSONNEL QUALIFICATIONS



Shilpa Sunil

Environmental
Project Manager

EDUCATION:

M.S. Environmental
Engineering
University of
California, Irvine

B.S. Environmental
Engineering
University of Mysore
(SJCE), Mysore, India

CERTIFICATIONS:

OSHA/ 10-hr
Certification
CEQA Certification

YEARS OF EXPERIENCE:

With Hillmann: 1
years
Total: 9 years

PROFESSIONAL EXPERIENCE:

Ms. Sunil is an Environmental Professional with 9 years of experience in Environmental Engineering. Ms. Sunil is experienced in supporting several areas of Hillmann's practice including coordination of projects, project scope creation, investigatory projects, and corrective plan implementation.

As an Environmental Project Manager, Ms. Sunil has experience writing reports for site remediation for commercial property owners and preparing respective groundwater monitoring reports. She also writes Phase I and Phase II Environmental Site Assessments and Investigation reports as well as Supplemental Site Investigation Reports. She has experience working in a variety of buildings including multifamily residential properties, commercial office buildings, retail shopping centers, gasoline service stations, hotels, dry cleaning plants, auto repair shops, industrial buildings, aerospace manufacturers, plating facilities, and various manufacturing operations.

Representative experience includes:

Environmental Engineer, John L. Hunter and Associates, Inc:

From 2015 to 2017, Ms. Sunil worked as an Environmental Engineer for John L. Hunter and Associates. Her responsibilities included reviewing Water Quality Management Plans, grading & drainage plans and conducting site verification inspections. She reviewed Standard Urban Storm Water Mitigation Plans; utilized SWRCB SMARTS database, assisted in Industrial Waste Plan review. She performed detailed review of grading plans, design specifications, hydro modifications analysis, and Storm Water Best Management Practice (BMP) calculations. She assisted with annual report preparation as part of NPDES permit requirements. Additionally, Ms. Sunil was responsible for reviewing work of private Professional Engineers for compliance with City standards and she assisted in determining engineering requirements for new developments.

Engineering Tech II, Orange County Public Works- OC Engineering:

From July 2013 to December 2014, Ms. Sunil worked as an Engineer for Orange County Public Works. In this position, she reviewed permits requests, provided support of capital improvement and maintenance projects, and integrated environmental values into capital improvement projects by verifying the implementation of the federal National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA).

Staff Aid II, Orange County Public Works- OC Road, Capital Projects:

From July 2012- July 2013, Ms. Sunil served as a Staff Aid for Orange County. In this position, she was responsible for the preparation of Water Quality Management Plans and Micro Station Drafting. She provided detailed review of grading plans, design specifications, hydro modification analysis, and Storm Water Best Management Practice Calculations. She assisted with annual report preparation as part of NPDES permit requirements.



Staff Aid II, Orange County Road, Traffic Engineering: From March 2010 to July 2012, Ms. Sunil was a Staff Aid for the Orange County Road and Traffic Engineering team. She performed traffic investigation, assisted the traffic committee and aided in work order preparation. She analyzed traffic flows, parking issues, and intersection capacities. Ms. Sunil provided written and verbal responses to residents of unincorporated Orange County.

Assistant Engineer, RBF Consulting, Irvine, CA: From August 2007 to January 2010, Ms. Sunil was an Assistant Engineer at RBF Consulting where she conducted comprehensive evaluations of watersheds including National Pollution Discharge Elimination Systems (NPDES) compliance, incorporated BMPs, assisted public and private sector clients with NPDES compliance services, and prepared and reviewed Storm Water Pollution Prevention Plans and Water Quality Management Plans.



J. Ryan Terwilliger

Operational Manager, West Coast

EDUCATION:

B.S. Environmental Science, University of Southern California, Los Angeles, CA

CERTIFICATION:

Cal-OSHA Certified Asbestos Consultant
CDPH Accredited Lead
Inspector/Assessor/ Project Monitor

CA Certified Site Surveillance Technician

OSHA 40 - Hr HAZWOPER

YEARS OF EXPERIENCE:

With Hillmann: 4 years

Total: 8 years

PROFESSIONAL EXPERIENCE:

Mr. Terwilliger is responsible for business operations, fiscal management and field staff management for Hillmann's California Office. He also performs asbestos surveys and investigations to identify asbestos and lead materials associated with occupational hazards. He supervises work practices and controls in accordance with job specifications, current EPA, OSHA and State Regulations for Asbestos remediation projects in commercial, industrial and multi-family residential buildings. Mr. Terwilliger performs IAQ, mold and moisture investigations in commercial, industrial and residential facilities nationwide. He also performs awareness training for asbestos, lead and microbial agents. Mr. Terwilliger provides litigation support consultation.

Representative Experience Includes:

Tishman Speyer Properties, Various locations: Hillmann has provided the complete environmental program for Tishman Speyer's properties since 1987. Our services include environmental health and safety, industrial hygiene, phase I environmental site assessments, asbestos surveys, air monitoring, bid administration, O&M programs and indoor air quality programs on various commercial, industrial and multi-family residential properties. Mr. Terwilliger is an Environmental Scientist on this contract, conducting on-site environmental services including phase I site assessments and NPDES water quality testing.

Westfield – Environmental Program, Various locations:

Since 2000, Hillmann has been providing an environmental program encompassing environmental health and safety, Phase I environmental site assessments, asbestos and lead surveys, air monitoring, bid administration and O&M programs, industrial hygiene and indoor air quality programs, and hazardous materials assessments on their mall properties throughout the county. Mr. Terwilliger is an Environmental Scientist on this contract performing industrial hygiene services that include indoor air quality monitoring, Phase I environmental site assessments, asbestos and lead surveys.

Brookfield Office Properties, Various sites, CA: Hillmann has been providing hazardous materials surveys, development abatement specifications, and managing the oversight activities during the abatement at various Brookfield owned sites throughout California. Mr. Terwilliger functions as a Project Manager for this contract.

California Department of Transportation, Central Valley and Northern CA: Hillmann has been performing asbestos and Lead-based Paint Surveys for the California Department of Transportation. Performed comprehensive asbestos containing materials and lead-based paint surveys of residential and commercial buildings that were slated for demolition and generated report of findings in order to aid the Department of Transportation (DOT) in facilitating the road improvement programs and building renovations throughout the



Central Valley area. Also during the abatement of asbestos from DOT owned buildings, provided contractor oversight and air monitoring services for regulatory compliance.

Verizon, Various Sites, CA. Hillmann conducted hazardous materials surveys, development abatement specifications, and project monitoring during abatement at various Verizon owned sites throughout California. Mr. Terwilliger functioned as the Project Manager.

Public Storage, Los Angeles, CA: Hillman performed comprehensive asbestos, lead-based paint and universal waste materials survey of commercial and industrial buildings throughout Southern California. Hazardous materials surveys were conducted prior to renovation for the storage units. Mr. Terwilliger developed abatement specifications and managed the abatement activities during the renovations of the buildings. He functioned as the Project Manager on this contract.



LIMITED PHASE II SUBSURFACE INVESTIGATION REPORT



Murrieta Road and Ethanac Road
Menifee, CA 92585

Prepared For:

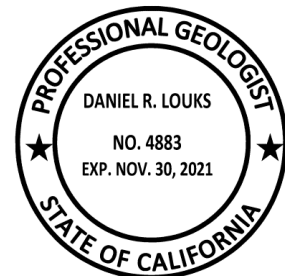
Alan Sharp
c/o EPD Solutions
3161 Michelson Drive, Suite 425
Irvine, CA 92612

Hillmann Project Number C3-8570

Ugr vgo dgt 1, 2021

Hillmann Consulting, LLC

Dan Louks
Professional Geologist 4883



Your Property. Our Priority.

1745 W. Orangewood Avenue, Suite 201, Orange, CA 92868
Telephone (714) 634-9500 Fax: (714) 634-9507 Toll free: (800) 232-4326
www.HillmannConsulting.com



September 1, 2021

Mr. Alan Sharp
c/o EPD Solutions
3161 Michelson Drive, Suite 425
Irvine, CA 92612

RE: Limited Phase II Subsurface Investigation Report
Murrieta Road and Ethanac Road
Menifee, California 92585
Hillmann Project Number: C3-8570

Dear Mr. Sharp:

Hillmann Consulting, LLC, is pleased to provide this Limited Phase II Subsurface Investigation Report prepared for the above referenced Property.

This report is for the exclusive use of the entities named on the front cover, its affiliates, designates and assignees, rating agencies, prospective bond holders and bond holders, and no other party shall have any right to rely on any service provided by Hillmann Consulting, LLC, without prior written consent.

We appreciate the opportunity to provide environmental due diligence services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact our office at 714-634-9500.

Regards,
Hillmann Consulting, LLC

Stephen Bartlett
Senior Project Manager

Your Property. Our Priority.

1745 W. Orangewood Avenue, Suite 201, Orange, CA 92868
Telephone (714) 634-9500 Fax: (714) 634-9507 Toll free: (800) 232-4326
www.HillmannConsulting.com

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1.0 INTRODUCTION / BACKGROUND

Hillmann Consulting, LLC (Hillmann) conducted a Limited Phase II Subsurface Investigation at the site, located at Murrieta Road and Ethanac Road. The Property consists of several rectangular shaped parcels located south of the intersection of Murrieta Road and Ethanac Road in Menifee, California. The Property occupies approximately twenty-nine (29) acres of land located in a rural developed area characterized by a mix of commercial properties and single-family homes.

During a previous Phase I, approximately one-hundred stockpiles of unknown origin were identified on the western side of the Property. Due to the unknown origin of these stockpiles, there was a concern about possible contaminants from off-site sources.

During a Phase II conducted by Hillmann in August 2021, Hillmann collected twenty-five (25) individual samples and analyzed for OCPs, Title 22 Metals, VOCs, and TPHcc from twenty-five (25) stockpiles throughout the Property, additionally one sample was analyzed for PAHs. Results of the analysis indicated no detectable levels of OCPs, TPHcc, or PAHs in stockpiles sampled. VOC results indicated low levels of two (2), two (2) Butanone and Acetone in nine (9) and eleven (11) stockpiles respectively, however these did not exceed conservative screening levels for residential applications. For residential applications, results of Title 22 Metals analysis indicated low background levels of metals that did not exceed acceptable screening levels for residential applications.

2.0 GEOLOGY/HYDROGEOLOGY

According to drilling logs, the stockpile soil primarily consists of coarse sandy loam. Groundwater was not encountered during soil sampling.

3.0 SITE INVESTIGATION

On August 16, 2021 Hillmann collected twenty-five (25) shallow soil samples from different stockpiles on the Property. The samples were collected using a hand auger tool or soil sampling spatula, and were completed from 2.0 to 3.0 feet below grade. Soil samples collected were preserved for analysis in laboratory jars, sealed with Teflon tape and plastic end caps, wrapped in aluminum foil and stored on ice. A total of twenty-five (25) soil samples were submitted for laboratory analysis for organo-chlorine pesticides (OCP) by EPA Method 8081A, Title 22 Metals by EPA Method 6010B, Total Petroleum Hydrocarbons by EPA Method 8015M, Volatile Organic Compounds (VOCs) by EPA Method 8260B, and Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270C. A&R Laboratories of Ontario, California analyzed the samples. The soil sample locations are indicated on **Figure 1**.

3.1 Laboratory Results

Results of OCP, TPHcc, and PAH analysis indicated no detectable levels in samples collected. Results of VOC analysis indicated low levels of two (2), two (2) Butanone and Acetone. Results of heavy metal analysis indicated the samples had low background levels of barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc.

The detected compounds were compared to Regional Screening Levels (RSLs) developed by EPA which are based on human health toxicity factors for residential and commercial settings. Results of the OCP, TPHcc, and PAH analysis indicated no detectable levels. These results are summarized in **Table 1**. The results from heavy metal analysis indicate the samples had low, background levels of metals, which did not exceed the applicable RSLs for residential applications. These results are summarized in **Table 2**. The results from VOC analysis indicate the samples had low levels of two (2), two (2) Butanone and Acetone which did not exceed the applicable RSLs for residential applications. These results are summarized in **Table 3**. The laboratory report is included as **Appendix A**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The site occupies approximately 28-acres of land, that is being considered for development. A recent site visit indicated the presence of approximately one-hundred soil stockpiles of unknown origin which had the potential for contaminants from an off-site source. Based on these factors Hillmann recommended that a soil sampling investigation that included sampling of approximately twenty-five stockpiles for pesticides, TPHcc, VOCs, PAHs and Title 22 Metals. Hillmann collected twenty-five (25) individual samples and analyzed for OCPs, TPHcc, VOCs, PAHs, and Title 22 Metals. Results of OCP, TPHcc, and PAH analysis indicated no detectable levels in samples collected. Results of VOC analysis indicated low levels of two (2), two (2) Butanone and Acetone. The results from heavy metal analysis indicate the samples had low, background levels of metals, which did not exceed the applicable RSLs for residential applications.

Hillmann recommends no further investigation at this time.

5.0 LIMITATIONS

This Subsurface Investigation was performed in accordance with generally and currently accepted engineering practices and principles. Although the data in this report is indicative of subsurface conditions in areas investigated, no further conclusions regarding the absence or presence of subsurface contamination in other areas of the site should be construed or inferred other than those expressly stated in this report. The conclusions made are based on information obtained from field observations, independent laboratory analytical results, and from current and relevant Federal, State, regional, and local agencies.

TABLE 1
Summary of Pesticide Soil Sampling Results (mg/Kg)

Sample ID	4,4 DDD	4,4 DDE	4,4 DDT	Dieldrin	Other OCP
S-1-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-2-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-3-3.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-4-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-5-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-6-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-7-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-8-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-9-3.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-10-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-11-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-12-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-13-3.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-14-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-15-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-16-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-17-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-18-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-19-3.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-20-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-21-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND

Sample ID	4,4 DDD	4,4 DDE	4,4 DDT	Dieldrin	Other OCP
S-22-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-23-2.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-24-2.5'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
S-25-3.0'	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND (<0.0020)	ND
Residential RSL	2.3	2.0	1.9	0.034	Var.
Commercial RSL	9.6	9.3	8.5	0.14	Var.

Notes: Refer to Table 2 for heavy metal results summary. OCP - Organo-Chlorine Pesticides. ND - Not Detected NM – Not Measured. EPA Regional Screening Levels (RSLs) are human health risk-based screening levels used by EPA and DTSC in residential and commercial settings. Please refer to lab report for complete results.

TABLE 2
Summary of Heavy Metal Results (mg/Kg)

Sample ID	Barium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
S-1-2.5'	102	11.6	4.05	9.58	2.13	3.64	42.3	28.1
S-2-2.0'	133	14.5	5.33	8.40	3.34	4.50	46.7	21.2
S-3-3.0'	140	14.4	5.59	8.60	3.59	4.67	47.5	21.9
S-4-2.0'	137	14.3	5.69	8.30	3.97	4.40	48.4	23.4
S-5-2.5'	115	13.0	4.96	8.34	3.72	4.10	42.6	21.6
S-6-2.0'	131	14.5	5.94	9.13	3.82	5.07	48.1	21.2
S-7-2.5'	104	13.5	4.67	8.69	3.87	4.29	41.6	20.2
S-8-2.0'	129	14.7	5.29	12.4	2.86	4.60	52.8	36.8
S-9-3.0'	125	13.6	4.93	12.0	2.60	4.30	50.8	36.0
S-10-2.5'	105	13.9	5.13	8.41	3.27	4.49	43.8	19.0
S-11-2.0'	138	13.9	5.08	11.6	2.43	4.52	52.5	34.8
S-12-2.5'	117	13.0	4.91	11.7	2.51	4.26	50.6	35.8
S-13-3.0'	128	13.2	5.00	12.2	2.74	4.51	52.0	34.1
S-14-2.5'	147	14.2	5.16	12.1	2.40	4.35	53.3	36.4
S-15-2.0'	126	14.0	5.14	12.4	2.55	4.66	52.7	37.1
S-16-2.5'	125	13.6	5.15	11.9	2.75	4.30	51.9	35.5
S-17-2.0'	109	14.1	5.20	9.08	3.41	4.55	46.6	19.9
S-18-2.5'	145	14.2	5.49	12.5	2.60	4.70	54.9	33.3
S-19-3.0'	132	13.5	5.09	11.4	2.48	4.29	51.3	32.8
S-20-2.5'	120	13.2	4.92	12.0	2.67	4.18	50.5	34.9
S-21-2.0'	162	20.4	6.80	15.1	2.32	5.98	70.5	45.2
S-22-2.5'	155	18.9	6.20	14.2	2.30	5.64	65.3	42.6

Sample ID	Barium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
S-23-2.0'	151	18.9	6.04	14.3	2.49	5.49	66.1	43.6
S-24-2.5'	136	17.5	5.75	13.3	1.93	5.15	61.0	40.4
S-25-3.0'	159	20.4	6.57	15.2	2.27	6.07	70.5	47.2
Residential RSL	15,000	36,000	23	3,100	80	490*	390*	23,000
Industrial RSL	220,000	170,000	350	47,000	320	3,100*	1,000*	350,000

Notes: ND - Not Detected. EPA Regional Screening Levels (RSLs) are human health risk-based screening levels used by EPA and DTSC in residential and commercial settings. DTSC Background Concentration is based on statistical study of sites throughout southern California. This concentration may be used as a screening level for anthropogenic and naturally occurring levels of arsenic in soil in southern California.* - Values modified by DTSC HHRA Note 3. Please refer to lab report for complete result

TABLE 3
Summary of Soil Sampling Results (mg/Kg)

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	2, 2 Butanone	Acetone	Other VOC	TPHg
Sampled August 16, 2021								
S-1-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-2-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-3-3.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-4-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.034	ND<0.10	ND	ND<0.20
S-5-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-6-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.033	ND<0.10	ND	ND<0.20
S-7-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-8-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.038	0.15	ND	ND<0.20
S-9-3.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.042	0.15	ND	ND<0.20
S-10-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-11-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-12-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.036	0.14	ND	ND<0.20
S-13-3.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	0.12	ND	ND<0.20
S-14-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-15-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.041	0.17	ND	ND<0.20

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	2, 2 Butanone	Acetone	Other VOC	TPHg
S-16-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.039	0.16	ND	ND<0.20
S-17-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.037	ND<0.10	ND	ND<0.20
S-18-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-19-3.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	0.11	ND	ND<0.20
S-20-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	0.12	ND	ND<0.20
S-21-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-22-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	ND<0.10	ND	ND<0.20
S-23-2.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	0.10	ND	ND<0.20
S-24-2.5'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	ND<0.0313	0.11	ND	ND<0.20
S-25-3.0'	ND<0.004	ND<0.005	ND<0.005	ND<0.005	0.032	0.15	ND	ND<0.20
Residential RSL	0.33*	1,100*	5.8	580	27,000	61,000	--	82
Commercial RSL	1.4*	5,400*	25	2,500	190,000	670,000	--	420

FIGURES



LEGEND

-  Soil Borings
-  Quadrant Lines

FIGURE 1A
 GENERAL SITE PLAN
 Ethanac Road and Murrieta Road
 Menifee, California

APPENDIX A

Laboratory Reports



A & R Laboratories, Inc.

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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President
08/20/2021 9:59:45

Laboratory Job No. (Certificate of Analysis No.)

2108-00125

Project Name / No.

SHARP-MURIETTA C3-8570

Dates Sampled (from/to)

08/16/21 To 08/16/21

Dates Received (from/to)

08/16/21 To 08/16/21

Dates Reported (from/to)

08/20/21 To 8/20/2021

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
S-4-2.0'	2-Butanone (MEK)	0.034		mg/Kg	0.0313	S-6-2.0'	2-Butanone (MEK)	0.033		mg/Kg	0.0313
S-8-2.0'	2-Butanone (MEK)	0.038		mg/Kg	0.0313	S-8-2.0'	Acetone	0.15		mg/Kg	0.10
S-9-3.0'	2-Butanone (MEK)	0.042		mg/Kg	0.0313	S-9-3.0'	Acetone	0.15		mg/Kg	0.10
S-12-2.5'	2-Butanone (MEK)	0.036		mg/Kg	0.0313	S-12-2.5'	Acetone	0.14		mg/Kg	0.10
S-13-3.0'	Acetone	0.12		mg/Kg	0.10	S-15-2.0'	2-Butanone (MEK)	0.041		mg/Kg	0.0313
S-15-2.0'	Acetone	0.17		mg/Kg	0.10	S-16-2.5'	2-Butanone (MEK)	0.039		mg/Kg	0.0313
S-16-2.5'	Acetone	0.16		mg/Kg	0.10	S-17-2.0'	2-Butanone (MEK)	0.037		mg/Kg	0.0313
S-19-3.0'	Acetone	0.11		mg/Kg	0.10	S-20-2.5'	Acetone	0.12		mg/Kg	0.10
S-23-2.0'	Acetone	0.10		mg/Kg	0.10	S-24-2.5'	Acetone	0.11		mg/Kg	0.10
S-25-3.0'	2-Butanone (MEK)	0.032		mg/Kg	0.0313	S-25-3.0'	Acetone	0.15		mg/Kg	0.10



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CERTIFICATE OF ANALYSIS

2108-00125

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 S-1-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/16/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/16/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	119		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	102		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	11.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	4.05		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	9.58		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.13		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	3.64		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	42.3		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	28.1		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV

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ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 S-1-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	145		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	143		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Invoice No.	92637
Cust #	H080
Permit Number	
Customer P.O.	C3-8570

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 S-1-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 S-1-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 S-1-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	108		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	96		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	86		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 002 S-2-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/16/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/16/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	112		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	133		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.33		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	8.40		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.34		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.50		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB

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RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 S-2-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	46.7		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	21.2		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								

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SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 S-2-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Tetrachloro-m-xylene	136		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	122		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 S-2-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 S-2-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	98		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	93		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 003 S-3-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/16/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/16/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	112		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 S-3-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	140		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.4		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.59		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	8.60		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.59		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.67		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	47.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	21.9		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 S-3-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	118		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	116		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 S-3-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 S-3-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	104		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	99		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	93		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 004 S-4-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/16/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 S-4-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/16/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	109		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	137		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.3		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.69		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	8.30		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.97		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.40		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	48.4		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	23.4		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 S-4-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	150		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	121		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 S-4-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.034		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 S-4-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Date Reported 08/20/21
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Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 S-4-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	97		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	94		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 005 S-5-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/16/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/16/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	106		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	115		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.0		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	4.96		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	8.34		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.72		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.10		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 S-5-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	42.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	21.6		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	120		%REC	EPA 8081A/8082		50-150	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 S-5-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Decachlorobiphenyl	120		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 S-5-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

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HILLMANN GROUP
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ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 S-5-2.5'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
.....continued								
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	98		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 006 S-6-2.0'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/16/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/16/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	108		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 S-6-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Barium	131		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.94		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	9.13		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.82		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	5.07		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	48.1		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	21.2		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 S-6-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	150		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	150		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.033		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 S-6-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN

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Project: SHARP-MURIETTA

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Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 S-6-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	98		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	93		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 007 S-7-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/16/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/16/21	JEN

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Date Reported 08/20/21
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HILLMANN GROUP
 RYAN TERWILLIGER
 1745 W. ORANGEWOOD AVE.
 SUITE 201
 ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 S-7-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	112		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	104		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	4.67		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	8.69		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.87		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.29		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	41.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	20.2		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 S-7-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	114		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	107		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 S-7-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 S-7-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 S-7-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
[VOC Surrogates]								
Dibromofluoromethane	106		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	99		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 008 S-8-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	114		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	129		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.7		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.29		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	12.4		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.86		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.60		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 S-8-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	52.8		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	36.8		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	125		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	117		%REC	EPA 8081A/8082		50-150	08/17/21	JEN

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 S-8-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.15		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.038		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 S-8-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 S-8-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	94		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	89		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 009 S-9-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	107		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	125		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 S-9-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	4.93		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	12.0		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.60		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.30		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	50.8		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	36.0		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 S-9-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	119		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	118		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.15		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.042		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 S-9-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 S-9-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	109		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	93		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	84		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 010 S-10-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 S-10-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	109		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	105		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.9		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.13		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	8.41		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.27		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.49		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	43.8		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	19.0		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 S-10-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	120		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	118		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 S-10-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 S-10-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 S-10-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Dibromofluoromethane	104		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	98		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 011 S-11-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	120		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	138		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.9		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.08		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	11.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.43		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.52		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 011 S-11-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Vanadium	52.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	34.8		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	142		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	129		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 011 S-11-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 011 S-11-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 011 S-11-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	108		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	94		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	87		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 012 S-12-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	112		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	117		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 S-12-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.0		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	4.91		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	11.7		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.51		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.26		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	50.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	35.8		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 S-12-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	135		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	135		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.14		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.036		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Date Reported	08/20/21
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Invoice No.	92637
Cust #	H080
Permit Number	
Customer P.O.	C3-8570

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SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 S-12-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 S-12-2.5'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
.....continued								
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	107		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	93		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	86		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 013 S-13-3.0'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV

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Project: SHARP-MURIETTA

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Date Received 08/16/21
Invoice No. 92637
Cust # H080
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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 S-13-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	113		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	128		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.2		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.00		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	12.2		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.74		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.51		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	52.0		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	34.1		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 S-13-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	132		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	132		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.12		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 S-13-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Date Reported 08/20/21
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Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 S-13-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	106		%REC	EPA 8260B		70-130	08/17/21	JEN

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ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 S-13-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Toluene-D8	92		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	87		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 014 S-14-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	101		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	147		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.2		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.16		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	12.1		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.40		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.35		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	53.3		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB

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Invoice No. 92637
Cust # H080
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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 S-14-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Zinc	36.4		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	120		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	120		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 S-14-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 S-14-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 S-14-2.5'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
.....continued								
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	107		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	92		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	80		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 015 S-15-2.0'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	100		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	126		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB

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Project: SHARP-MURIETTA

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 S-15-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Chromium	14.0		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.14		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	12.4		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.55		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.66		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	52.7		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	37.1		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 S-15-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	132		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	124		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[PAHs by GCMS]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/18/21	JEN
Acenaphthene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Acenaphthylene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Anthracene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Benzo(a)anthracene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Benzo(a)pyrene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Benzo(b)fluoranthene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Benzo(g,h,i)perylene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Benzo(k)fluoranthene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Chrysene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Dibenzo(a,h)anthracene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Fluoranthene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Fluorene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Indeno(1,2,3-c,d)pyrene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
2-Methylnaphthalene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Naphthalene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Phenanthrene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
Pyrene	<0.25		mg/Kg	EPA 8270C	1.0	0.25	08/18/21	JEN
[Semi-Volatile Surrogates]								
2-Fluorophenol	105		%REC	EPA 8270C		10-160	08/18/21	JEN
Phenol-D5	80		%REC	EPA 8270C		10-160	08/18/21	JEN
Nitrobenzene-D5	90		%REC	EPA 8270C		10-160	08/18/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 S-15-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
2-Fluorobiphenyl	103		%REC	EPA 8270C		10-160	08/18/21	JEN
2,4,6-Tribromophenol	81		%REC	EPA 8270C		10-160	08/18/21	JEN
p-Terphenyl-D14	107		%REC	EPA 8270C		10-160	08/18/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.17		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.041		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 S-15-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Date Reported 08/20/21
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Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 S-15-2.0'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
.....continued								
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	112		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	94		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	86		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 016 S-16-2.5'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	100		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB

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Project: SHARP-MURIETTA

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Date Received 08/16/21
Invoice No. 92637
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Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 016 S-16-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	125		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.15		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	11.9		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.75		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.30		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	51.9		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	35.5		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
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Sample Matrix: Soil								
.....continued								
Endosulfan I	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	121		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	123		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.16		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.039		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 016 S-16-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 016 S-16-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	118		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	92		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	89		%REC	EPA 8260B		70-130	08/17/21	JEN

Sample: 017 **S-17-2.0'**

Sample Matrix: **Soil**

Date & Time Sampled: 08/16/21

[TPH Gasoline (C4-C12)]



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2108-00125

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 017 S-17-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	104		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	109		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.1		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.20		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	9.08		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	3.41		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.55		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	46.6		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	19.9		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV

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Date Reported 08/20/21
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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 017 S-17-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	125		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	115		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 017 S-17-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.037		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Cust # H080
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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 017 S-17-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 017 S-17-2.0'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
.....continued								
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	107		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	98		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 018 S-18-2.5'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	92		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	145		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	14.2		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.49		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	12.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.60		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.70		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
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ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 S-18-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	54.9		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	33.3		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 S-18-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Tetrachloro-m-xylene	132		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	116		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 S-18-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 S-18-2.5'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
.....continued								
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	109		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	93		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	85		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 019 S-19-3.0'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	103		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 S-19-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	132		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.09		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	11.4		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.48		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.29		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	51.3		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	32.8		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Project: SHARP-MURIETTA

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Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 S-19-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	114		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	102		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.11		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Project: SHARP-MURIETTA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 S-19-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 S-19-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	110		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	91		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	84		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 020 S-20-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 S-20-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	72		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	120		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	13.2		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	4.92		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	12.0		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.67		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	4.18		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	50.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	34.9		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 S-20-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	127		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	126		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.12		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 S-20-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 S-20-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 S-20-2.5' Sample Matrix: Soilcontinued							Date & Time Sampled: 08/16/21	
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	110		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	92		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	88		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 021 S-21-2.0' Sample Matrix: Soil							Date & Time Sampled: 08/16/21	
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	107		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	162		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	20.4		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	6.80		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	15.1		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.32		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	5.98		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 021 S-21-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	70.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	45.2		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	107		%REC	EPA 8081A/8082		50-150	08/17/21	JEN

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FDA#	2030513
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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 021 S-21-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Decachlorobiphenyl	108		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 021 S-21-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 021 S-21-2.0'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
.....continued								
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	113		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	90		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	83		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 022 S-22-2.5'					Date & Time Sampled:		08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	101		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 022 S-22-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Barium	155		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	18.9		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	6.20		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	14.2		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.30		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	5.64		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	65.3		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	42.6		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Sample: 022 S-22-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	116		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	96		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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LA City#	10261
ELAP#s	2789
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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 022 S-22-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN

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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 022 S-22-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	110		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	89		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	85		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 023 S-23-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN

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Cust # H080
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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 S-23-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	110		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	151		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	18.9		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	6.04		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	14.3		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.49		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	5.49		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	66.1		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	43.6		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 S-23-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	114		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	113		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.10		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 S-23-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 S-23-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 S-23-2.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
[VOC Surrogates]								
Dibromofluoromethane	107		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	91		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	85		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 024 S-24-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	112		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	136		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	17.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	5.75		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	13.3		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	1.93		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	5.15		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 024 S-24-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	61.0		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	40.4		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	116		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	108		%REC	EPA 8081A/8082		50-150	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 024 S-24-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.11		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 024 S-24-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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CERTIFICATE OF ANALYSIS

2108-00125

HILLMANN GROUP
RYAN TERWILLIGER
1745 W. ORANGEWOOD AVE.
SUITE 201
ORANGE, CA 92868

Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 024 S-24-2.5'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	109		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	90		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	84		%REC	EPA 8260B		70-130	08/17/21	JEN
Sample: 025 S-25-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		08/17/21	JEN
C4-C12	<0.50		mg/Kg	LUFT GC/MS	1.0	0.50	08/17/21	JEN
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		08/16/21	DV
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	08/18/21	JEN
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	08/18/21	JEN
[Surrogate]								
o-Terphenyl (OTP)	105		%REC	EPA 8015M		50-150	08/18/21	JEN
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/18/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Barium	159		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB

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Project: SHARP-MURIETTA

Date Reported 08/20/21
Date Received 08/16/21
Invoice No. 92637
Cust # H080
Permit Number
Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 S-25-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Chromium	20.4		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Cobalt	6.57		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Copper	15.2		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Lead	2.27		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Nickel	6.07		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/18/21	TLB
Vanadium	70.5		mg/Kg	EPA 6010B	1.0	0.500	08/18/21	TLB
Zinc	47.2		mg/Kg	EPA 6010B	1.0	5.00	08/18/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		08/18/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	08/18/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/16/21	DV
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN

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Cust # H080
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Customer P.O. C3-8570

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 S-25-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/17/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/17/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	08/17/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	132		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
Decachlorobiphenyl	117		%REC	EPA 8081A/8082		50-150	08/17/21	JEN
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		08/17/21	JEN
Acetone	0.15		mg/Kg	EPA 8260B	1.0	0.10	08/17/21	JEN
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	08/17/21	JEN
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	08/17/21	JEN
2-Butanone (MEK)	0.032		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 S-25-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	08/17/21	JEN
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	08/17/21	JEN
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Diisopropyl Ether (DIPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	08/17/21	JEN
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 S-25-3.0'							Date & Time Sampled: 08/16/21	
Sample Matrix: Soil								
.....continued								
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	08/17/21	JEN
[VOC Surrogates]								
Dibromofluoromethane	111		%REC	EPA 8260B		70-130	08/17/21	JEN
Toluene-D8	93		%REC	EPA 8260B		70-130	08/17/21	JEN
Bromofluorobenzene	84		%REC	EPA 8260B		70-130	08/17/21	JEN

Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director



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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications . The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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FDA#	2030513
LA City#	10261
ELAP#s	2789 2790 2122

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QUALITY CONTROL DATA REPORT

HILLMANN GROUP
 RYAN TERWILLIGER
 1745 W. ORANGEWOOD AVE.
 SUITE 201
 ORANGE, CA 92868

2108-00125

Date Reported 08/20/2021
 Date Received 08/16/2021
 Date Sampled 08/16/2021
 Invoice No. 92637
 Customer # H080
 Customer P.O. C3-8570

Project: SHARP-MURIETTA

Method # EPA 6010B

QC Reference # 98014 Date Analyzed: 8/18/2021 Technician: TLB

Samples 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	99	101	2.3	86	85	0.9
Arsenic	98	99	1.3	86	86	0.1
Barium	101	101	0.3	101	105	0.7
Beryllium	98	98	0.3	100	100	0.4
Cadmium	100	101	0.9	84	84	0.3
Chromium	99	100	0.9	63	66	2.2
Cobalt	99	100	0.7	82	82	0.2
Copper	102	104	1.3	103	105	1.0
Lead	100	100	0.8	77	77	0.4
Molybdenum	99	100	1.2	93	94	0.5
Nickel	99	99	0.4	82	82	0.2
Selenium	99	100	0.7	76	75	0.4
Silver	102	103	1.2	83	84	1.4
Thallium	101	102	0.9	83	87	4.5
Vanadium	100	102	1.3	97	100	1.0
Zinc	99	100	0.4	77	77	0.0

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

QC Reference # 98015 Date Analyzed: 8/18/2021 Technician: TLB

Samples 021 022 023 024 025

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	108	108	0.3	88	89	1.2
Arsenic	112	111	0.3	80	80	0.7
Barium	110	111	0.9	98	104	0.8
Beryllium	102	103	0.3	97	98	1.1
Cadmium	109	108	1.2	83	84	0.7
Chromium	104	104	0.3	83	84	0.5
Cobalt	108	107	1.2	79	80	0.6
Copper	120	121	0.4	104	105	0.8
Lead	107	106	0.5	73	73	0.9
Molybdenum	109	108	0.7	92	92	0.6
Nickel	108	106	1.4	78	79	0.4
Selenium	111	109	1.1	76	77	1.3
Silver	103	103	0.1	82	83	0.9
Thallium	114	116	1.7	78	77	0.5
Vanadium	113	114	0.5	95	99	1.0
Zinc	105	104	0.9	76	78	0.8

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

Method # EPA 7471A

QC Reference # 98044 Date Analyzed: 8/18/2021 Technician: KZ

Samples 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020



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FDA#	2030513
LA City#	10261
ELAP#s	2789
	2790
	2122

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QUALITY CONTROL DATA REPORT

HILLMANN GROUP
 RYAN TERWILLIGER

2108-00125

Date Reported 08/20/2021
 Date Received 08/16/2021
 Date Sampled 08/16/2021

Project: SHARP-MURIETTA

Method #	EPA 7471A																									
QC Reference #	98044										Date Analyzed:	8/18/2021					Technician:	KZ								
Samples	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020						
Results											LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges									
																						LCS %REC	LCS %RPD	SPIKE %RPD		
Mercury											91	88	3	85	91	6								75 - 125	0 - 25	0 - 25
QC Reference #	98045										Date Analyzed:	8/18/2021					Technician:	KZ								
Samples	021	022	023	024	025																					
Results											LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Ranges									
																							LCS %REC	LCS %RPD	SPIKE %RPD	
Mercury											82	88	6	91	97	6								75 - 125	0 - 25	0 - 25

Method #	EPA 8015M																					
QC Reference #	98049										Date Analyzed:	8/18/2021					Technician:	JEN				
Samples	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015							
Results											LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	BLKSRR%REC	Control Ranges						
																	LCS %REC	SPIKE %RPD	BLKSRR%REC			
C13-C22 o-Terphenyl (OTP)											109	106	103	3	104		70 - 130	0 - 25	50 - 150			
QC Reference #	98050										Date Analyzed:	8/18/2021					Technician:	JEN				
Samples	016	017	018	019	020	021	022	023	024	025												
Results											LCS %REC	Control Ranges										
												LCS %REC										
C13-C22											97	70 - 130										

Method #	EPA 8081A																					
QC Reference #	98046										Date Analyzed:	8/17/2021					Technician:	JEN				
Samples	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020		
Results											LCS %REC	Control Ranges										
												LCS %REC										
4,4'-DDT											70	50 - 130										
Aldrin											102	50 - 140										
Dieldrin											98	70 - 130										
Endrin											70	70 - 150										
gamma-BHC											81	50 - 150										
Heptachlor											63	50 - 150										
QC Reference #	98051										Date Analyzed:	8/17/2021					Technician:	JEN				
Samples	021	022	023	024	025																	



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QUALITY CONTROL DATA REPORT

HILLMANN GROUP
 RYAN TERWILLIGER

2108-00125

Date Reported 08/20/2021
 Date Received 08/16/2021
 Date Sampled 08/16/2021

Project: SHARP-MURIETTA

Method # EPA 8081A

QC Reference # 98051 Date Analyzed: 8/17/2021 Technician: JEN

Samples 021 022 023 024 025

Results

LCS %REC

4,4'-DDT	60
Aldrin	108
Dieldrin	105
Endrin	70
gamma-BHC	90
Heptachlor	72

Control Ranges

LCS %REC

50 - 130
 50 - 140
 70 - 130
 70 - 150
 50 - 150
 50 - 150

Method # EPA 8081A/8082

QC Reference # 98046 Date Analyzed: 8/17/2021 Technician: JEN

Samples 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020

No QC recoveries reported.

QC Reference # 98051 Date Analyzed: 8/17/2021 Technician: JEN

Samples 021 022 023 024 025

No QC recoveries reported.

Method # EPA 8260B

QC Reference # 97998 Date Analyzed: 8/17/2021 Technician: JEN

Samples 001 002 003 004 005 006 007

Results

LCS %REC SPIKE %REC SPIKE %DUP SPIKE %RPD BLKSRR%R EC

1,1-Dichloroethene	96	108	92	16	
Benzene	103	118	102	16	
Bromofluorobenzene					100
Chlorobenzene	108	121	104	17	
Dibromofluoromethan					100
Toluene	107	136	108	28	
Toluene-D8					99
Trichloroethene	104	118	97	21	

Control Ranges

LCS %REC SPIKE %RPD BLKSRR%REC

50 - 150 0 - 30
 50 - 150 0 - 30
 50 - 150 0 - 30 50 - 150
 50 - 150 0 - 30 50 - 150
 50 - 150 0 - 30 50 - 150

QC Reference # 98027 Date Analyzed: 8/17/2021 Technician: JEN

Samples 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025

Results

LCS %REC SPIKE %REC BLKSRR%R EC

1,1-Dichloroethene	82	96	
Benzene	91	108	
Bromofluorobenzene			99
Chlorobenzene	96	110	
Dibromofluoromethan			103
Toluene	93	109	
Toluene-D8			99
Trichloroethene	89	105	

Control Ranges

LCS %REC BLKSRR%REC

50 - 150
 50 - 150
 50 - 150 50 - 150
 50 - 150 50 - 150
 50 - 150 50 - 150

Method # EPA 8270C

QC Reference # 98055 Date Analyzed: 8/18/2021 Technician: JEN



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QUALITY CONTROL DATA REPORT

2108-00125

HILLMANN GROUP
 RYAN TERWILLIGER

Date Reported 08/20/2021
 Date Received 08/16/2021
 Date Sampled 08/16/2021

Project: SHARP-MURIETTA

Method #	EPA 8270C									
QC Reference #	98055		Date Analyzed: 8/18/2021				Technician: JEN			
Samples	015									
Results	LCS %REC	LCS %DUP	LCS %RPD		Control Ranges		LCS %REC	LCS %RPD		
Acenaphthene	63	78	15		47 - 145		0 - 25			
Pyrene	63	75	12		30 - 140		0 - 25			

Method #	LUFT GC/MS									
QC Reference #	98031		Date Analyzed: 8/16/2021				Technician: JEN			
Samples	001 002 003 004 005 006 007									
Results	LCS %REC	LCS %DUP	LCS %RPD		Control Ranges		LCS %REC	LCS %RPD		
C4-C12	98	92	6		70 - 130		0 - 25			

QC Reference #	Date Analyzed: 8/17/2021										Technician: JEN									
Samples	008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025																			
Results	LCS %REC	LCS %DUP	LCS %RPD		Control Ranges		LCS %REC	LCS %RPD												
C4-C12	91	89	2		70 - 130		0 - 25													

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

Chain of Custody Record

AR Lab Job #

AR LABORATORIES, Inc.

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Fax: 951.779.0344

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Project No:		Project Name:		Please Circle Analyses Requested												Turn-Around Time					
C3-8570		Sharp - Murietta		<input checked="" type="checkbox"/> Carbon Chain <input type="checkbox"/> Diesel, Fuel Screen, <input type="checkbox"/> Gas only <input type="checkbox"/> BTEX/MBE Only <input type="checkbox"/> 418.1 (TRPH), 413.2, 1664 <input type="checkbox"/> VOLs <input type="checkbox"/> GC or GCMS Volatiles by 5035* <input type="checkbox"/> GCMS: 8260B, 8021B, 624, 524.2 <input type="checkbox"/> GCMS: MBE Conf. Only, BTEX/Oxygenates Only <input type="checkbox"/> GCMS: 8270C, 625 <input type="checkbox"/> 8084: Pesticides, PCBs, Pest/PCB <input checked="" type="checkbox"/> Metals: Title 22 (CAM), RCRA, PP <input type="checkbox"/> pH, TDS, TSS, Conductivity <input type="checkbox"/> Flashpoint, Hex Cr												<input type="checkbox"/> 24 Hr. RUSH* <input type="checkbox"/> 48 Hr. RUSH* <input checked="" type="checkbox"/> Normal TAT					
Project Manager:		Phone:		Address:		*Requires PRIOR approval, additional charges apply												Requested due date: _____			
Stephen Bartlett		714-634-9500		1745 W. Orangewood Avenue, Suite 201 Orange, CA 92868																	
Client Name:		Address:		Remarks/Special Instructions																	
(Report and Billing)		(Report and Billing)																			
Hillmann Consulting LLC																					
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	8015M: Diesel, Fuel Screen, 8015M: Gas only	8021B: BTEX/MBE Only	418.1 (TRPH), 413.2, 1664	GC or GCMS Volatiles by 5035*	GCMS: 8260B, 8021B, 624, 524.2	GCMS: MBE Conf. Only, BTEX/Oxygenates Only	GCMS: 8270C, 625	8084: Pesticides, PCBs, Pest/PCB	Metals: Title 22 (CAM), RCRA, PP	pH, TDS, TSS, Conductivity	Flashpoint, Hex Cr	Remarks/Special Instructions			
1	S-1-2.5'	8/16/21		Soil	Stockpile 1	(glass)	X														
2	S-2-2.0'						X														
3	S-3-3.0'						X														
4	S-4-2.0'						X														
5	S-5-2.5'						X														
6	S-6-2.0'						X														
7	S-7-2.5'						X														
8	S-8-2.0'						X														
9	S-9-3.0'						X														
10	S-10-2.5'						X														
1) Relinquished by: (Sampler's Signature)		Date:	Time:	3) Relinquished by:		Date:	Time:	To be completed by Laboratory personnel:										Sample Disposal			
2) Received by:		Date:	Time:	4) Received by:		Date:	Time:	<input type="checkbox"/> Samples chilled? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field <input type="checkbox"/> Custody seals? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> All sample containers intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input type="checkbox"/> Hand carried										<input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input type="checkbox"/> Lab disposal			
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.		5) Relinquished by:		Date:	Time:	6) Received for Laboratory by:		Date:	Time:											Sample Locator No.	
Laboratory Notes:								8/16 12:50													

AR LABORATORIES, Inc.

Chain of Custody Record

AR Lab Job #

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 Fax: 951.779.0344

www.arlaboratories.com info@arlaboratories.com

Project No: C3-8570		Project Name: Sharp - Murietta					Please Circle Analyses Requested										Turn-Around Time <input type="checkbox"/> 24 Hr. RUSH* <input type="checkbox"/> 48 Hr. RUSH* <input checked="" type="checkbox"/> Normal TAT *Requires PRIOR approval, additional charges apply Requested due date: _____				
Project Manager: Stephen Bartlett		Phone: 714-634-9500		Fax:			Carbon Chain	8015M: Diesel, Fuel Screen,	8015M: Gas only	8021B: BTEX/MBE Only	418.1 (TRPH), 413.2, 1664	GC or GCMS Volatiles by 5035*	GCMS: 8260B, 8021B, 624, 524.2	GCMS: MBE Conf. Only, BTEX/Oxygenates Only	GCMS: 8270C, 625	8080: Pesticides, PCBs, Pest/PCB			Metals: Title 22 (CAM), RCRA, PP	pH, TDS, TSS, Conductivity	Flashpoint, Hex Cr
Client Name: (Report and Billing) Hillmann Consulting LLC		Address: (Report and Billing) 1745 W. Orangewood Avenue, Suite 201 Orange, CA 92868																		Remarks/Special Instructions	
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type															
11	S-11-2.0'	8/14/20		Soil	Stalk P.O.C 11	19															
12	S-12-2.0'					12															
13	S-13-3.0'					13															
14	S-14-2.5'					14															
15	S-15-2.0'					15															
16	S-16-2.5'					16															
17	S-17-2.0'					17															
18	S-18-2.5'					18															
19	S-19-3.0'					19															
20	S-20-2.5'					20															
1) Relinquished by: (Sampler's Signature) <i>[Signature]</i>		Date:	Time:	3) Relinquished by:		Date:	Time:	To be completed by Laboratory personnel: Samples chilled? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field Custody seals? <input type="checkbox"/> Yes <input type="checkbox"/> No All sample containers intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input type="checkbox"/> Hand carried										Sample Disposal <input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input type="checkbox"/> Lab disposal			
2) Received by:		Date:	Time:	4) Received by:		Date:	Time:														
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.						5) Relinquished by:		Date:	Time:												
						6) Received for Laboratory by:		Date:	Time:												
Laboratory Notes:													Sample Locator No.								

AR LABORATORIES, Inc.

Chain of Custody Record

AR Lab Job #

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Fax: 951.779.0344

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info@arlaboratories.com

Please Circle Analyses Requested

Project No: C3-8570		Project Name: Sharp - Murietta					8015M: Diesel, Fuel Screen, Carbon Chain 8015M: Gas only 8021B: BTEX/MIBE Only 418.1 (TRPH), 413.2, 1664 GC or GCMS Volatiles by 5035* GCMS: 8260B, 8021B, 624, 524.2 GCMS: MIBE Conf. Only, BTEX/Oxygenates Only GCMS: 8270C, 625 8080C: Pesticides, PCBs, Pest/PCB Metals: Title 22 (CAM), RCRA, PP pH, TDS, TSS, Conductivity Flashpoint, Hex Cr	Turn-Around Time												
Project Manager: Stephen Bartlett		Phone: 714-634-9500		Fax:		<input type="checkbox"/> 24 Hr. RUSH* <input type="checkbox"/> 48 Hr. RUSH* <input checked="" type="checkbox"/> Normal TAT		*Requires PRIOR approval, additional charges apply												
Client Name: (Report and Billing) Hillmann Consulting LLC		Address: (Report and Billing) 1745 W. Orangewood Avenue, Suite 201 Orange, CA 92868						Requested due date: _____												
Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	8015M: Diesel, Fuel Screen, Carbon Chain	8015M: Gas only	8021B: BTEX/MIBE Only	418.1 (TRPH), 413.2, 1664	GC or GCMS Volatiles by 5035*	GCMS: 8260B, 8021B, 624, 524.2	GCMS: MIBE Conf. Only, BTEX/Oxygenates Only	GCMS: 8270C, 625	8080C: Pesticides, PCBs, Pest/PCB	Metals: Title 22 (CAM), RCRA, PP	pH, TDS, TSS, Conductivity	Flashpoint, Hex Cr	Remarks/Special Instructions	
21	S-21 - 2.0'	8/16/08		Soil	Stallpile 21	1 9145	X				X									
22	S-22 - 2.5'				22		X				X									
23	S-23 - 2.0'				23		X				X									
24	S-24 - 2.5'				24		X				X									
25	S-25 - 3.0'				25		X				X									
1) Relinquished by: (Sampler's Signature) <i>Stephen Bartlett</i>		Date:	Time:	3) Relinquished by:		Date:	Time:	To be completed by Laboratory personnel:		Sample Disposal										
2) Received by:		Date:	Time:	4) Received by:		Date:	Time:	<input type="checkbox"/> Samples chilled? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field <input type="checkbox"/> Custody seals? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> All sample containers intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input type="checkbox"/> Hand carried		<input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input type="checkbox"/> Lab disposal										
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.		5) Relinquished by:		6) Received for Laboratory by:		Date:	Time:			Sample Locator No.										
Laboratory Notes:				<i>[Signature]</i>		Date:	Time:													



Sample Acceptance Checklist

CLIENT: Hillmann Consulting

WORK ORDER NUMBER: 2108-125

Temperature: (Criteria: 0.0°C-6.0°C)

Sample Temp. (w/CF) °C(w/CF) 3.0°C

- Sample(s) outside temperature criteria: PM contacted by :
 - Sample(s) outside temperature criteria, but received on ice/chilled on same day of sampling.
 - Sample(s) received at ambient temperature; placed on ice for transport by courier.
- Ambient Temperature Air Filter

CUSTODY SEAL:

Cooler	<input type="checkbox"/>	Present and Intact	<input type="checkbox"/>	Present and Not Intact	<input checked="" type="checkbox"/>	Not Present
Sample(s)	<input type="checkbox"/>	Present and Intact	<input type="checkbox"/>	Present and Not Intact	<input checked="" type="checkbox"/>	Not Present

Sample Condition:

	Yes	No	N/A
Was a COC received	X		
Were sample IDs present?	∅		
Were sampling dates & times present?	X		
Was a relinquished signature present?	X		
Were the tests required clearly indicated?	X		
Were all samples sealed in plastic bags?			∅
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were correct containers used for the tests required?	∅		
Was a sufficient amount of samples sent for tests indicated?	∅		
Was there headspace in VOA vials?			X
Were the containers labeled with correct preservatives?			∅

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: [Signature]

Date: 8/16/21



NOTICE OF SCOPING MEETING & PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT

To: State Clearinghouse, Property Owners, Responsible and Trustee Agencies/Interested Organizations and Individuals

From: City of Menifee

Subject: Notice of Preparation (NOP) and Public Scoping Meeting Notice for a Draft Environmental Impact Report (DEIR) for the proposed “Murrieta Road Warehouse” Project; Planning Case No. DEV2022-017, and Major Plot Plan No. PLN22-0179

Scoping Meeting: To be held in-person on **Tuesday, November 28, 2023, at 5 p.m.**
Additional information provided below (EIR Public Scoping Meeting)

Comment Period: Tuesday, November 7, 2023, through Thursday, December 7, 2023

Notice of Preparation of a Draft Environmental Impact Report (DEIR):

The City of Menifee (City) will serve as the Lead Agency under the California Environmental Quality Act (CEQA) and will be responsible for the preparation of a DEIR for the Project referenced above. The DEIR will evaluate the potential significant environmental impacts that may result from the Project, a planned warehouse building and associated infrastructure on 28.27 gross-acres. Project-related improvements would occur on a site generally located southwest of the interstate 215/Ethanac Road interchange in the northwestern part of the City of Menifee, County of Riverside, State of California. The Project site is generally bounded by a 300 foot wide Southern California Edison utility corridor and McLaughlin Road to the south, existing single-family homes to the north, Murrieta Road to the east, and Geary Street to the west. The site is identified by Assessor’s Parcel Numbers (APN) 330-210-010, -011, -013, -062 and 330-560-001 through 330-560-040, 330-570-001 through 330-570-033, and 330-571-001 through 330-571-005. Refer to **Figure 1, Local Vicinity Map**.

Project Description:

Plot Plan No. PLN22-0179 - The Murrieta Road Warehouse (herein after “proposed Project” or “Project”) consists of vacant land that has been disturbed from previous agricultural activities and previous development. The site is vegetated by unplanned, non-native grasses as well as sparse shrubs. The site is relatively flat throughout. The Project would include the construction of a concrete tilt-up building that would total approximately 517,720-square foot (SF) and proposes a structural height of approximately 55 feet, 409 automobile parking spaces, and 194 truck trailer parking spaces. The environmental analysis includes a development buffer in order to account for final design changes, equivalent to three percent of the building square footage, or 15,532 SF, which would result in a building area of 533,252 SF (including 20,320 square feet of office space, 505,932 SF of warehouse space, and 7,000 square feet of mezzanine). Associated facilities and improvements of the Project include landscaping, lighting, and related on-site and off-site improvements (roadway improvements, sewer, storm drain, utilities) including paving of Geary Street from the Project site to Ethanac Road. Reference **Figure 2, Site Plan**, illustrates the proposed site plan without the three percent development buffer.

Potential Environmental Effects:

The following environmental effects are anticipated to be addressed in the DEIR: Agriculture, Air Quality, Biological Resources, Cultural Resources, Energy, Greenhouse Gases, Hazards and Hazardous Materials, Hydrology/Water Quality, Land Use/Planning, Noise, Public Services, Transportation/Traffic, Tribal Cultural Resources, and Utilities/Service Systems, and Wildfire.

The Project site is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 (California Department of Toxic Substances Control list of various hazardous sites).

Agency/Public Comments:

This transmittal constitutes the official NOP for the proposed Project DEIR and serves as a request for environmental information that you or your organization believe should be included or addressed in the proposed DEIR document. Please be sure to address the scope and content of environmental information or issues that may relate to your agency's statutory responsibilities in connection with the proposed Project.

EIR Public Scoping Meeting:

Notice is hereby given that the City of Menifee, Community Development Department will hold a Scoping meeting for the general public and any interested agencies regarding the proposed DEIR addressing the proposed Project. The Scoping meeting will be held on **Tuesday, November 28, 2023, at 5:00 p.m.** The scoping meeting will be held at:

City of Menifee City Hall, City Council Chambers
29844 Haun Road
Menifee, CA 92586

Purpose of the Notice of Preparation:

The purpose of this NOP is to fulfill legal notification requirements and inform the public, and CEQA Responsible and Trustee Agencies, that a DEIR is being prepared for the proposed Project by the City. This NOP solicits agency and interested party concerns regarding the potential environmental effects of implementing the proposed Project at the Project location. CEQA encourages early consultation with private persons and organizations that may have information or may be concerned with any potential adverse environmental effects related to physical changes in the environment that may be caused by implementing the project. Responses to the NOP that specifically focus on potentially significant environmental issues are of particular interest to the City of Menifee. All comment letters to this NOP will be included in the appendices to the EIR. The content of the responses will help guide the focus and scope of the EIR in accordance with State CEQA Guidelines.

Public Comment Period:

Based on the time limits defined by CEQA, the 30-day public review/comment period on the Notice of Preparation will commence on **November 7, 2023, and conclude on December 7, 2023, at 5:00 p.m.** Materials for the Project may be downloaded from the City's website:

<https://www.cityofmenifee.us/325/Environmental-Notices-Documents>

Materials for the Project are also available for review at:

City of Menifee City Hall
Community Development Department
29844 Haun Road
Menifee, CA 92586

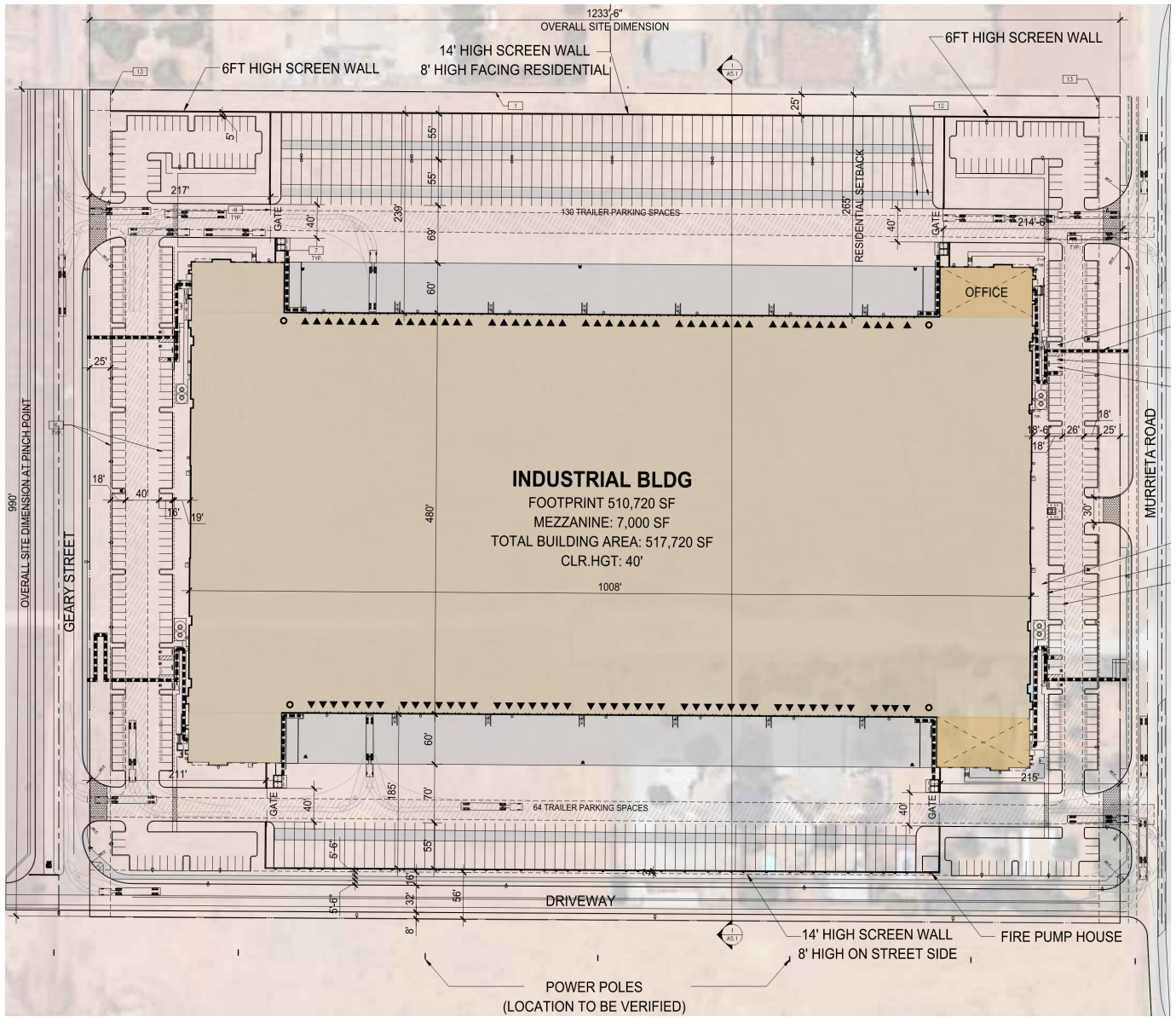
Any responses must be submitted to the City of Menifee, Community Development Department at the earliest possible date, but no later than the **December 7, 2023**, deadline. Comments must be submitted in writing, or via email, to:

Brett Hamilton, Senior Planner
City of Menifee, Community Development Department
29844 Haun Road
Menifee, CA 92586
(951) 723-3747
bhamilton@cityofmenifee.us

Figure 1
Local Vicinity Map



**Figure 2
Site Plan**





CITY OF PERRIS

DEVELOPMENT SERVICES DEPARTMENT
PLANNING DIVISION

135 N. "D" Street, Perris, CA 92570-2200
TEL: (951) 943-5003 FAX: (951) 943-8379

December 7, 2023

Brett Hamilton
City of Menifee
Community Development Department
29844 Haun Road
Menifee, CA 92586

SUBJECT: City of Perris Comments on the Notice of Scoping Meeting and Preparation of a Draft Environmental Impact Report – Murrieta Road Warehouse - DEV2022-017, and Major Plot Plan 22-0179 – Located west of Murrieta Road, east of Geary Street, north of McLaughlin Road, and south of Ethanac Road

Dear Mr. Hamilton:

The City of Perris appreciates the opportunity to comment on the 517,720 square foot industrial Project in Menifee on approximately 28.27 acres of land located on the west of Murrieta Road, east of Geary Street, north of McLaughlin Road, and south of Ethanac Road. The Proposed Project is located east of the existing Monument Ranch residential development in the City of Perris and approximately 1,800 feet south of Green Valley Specific Plan (GVSP) also in the City of Perris. The GVSP is a master-planned community totaling 1,269 acres of land envisioned to have 3,460 single-family detached homes, 750 multi-family units, 42.3 acres of business and professional office space, 72.7 acres of commercial retail, 108.7 acres of industrial, 24 acres for three school sites, and 51.1 acres of public parks.

Although there are some industrial zones in the GVSP, they are located adjacent to the Perris Valley Airport north of the San Jacinto River, which has land use density limitations. All the development in the GVSP south of the San Jacinto River to Ethanac Road is residential, with some commercial development west of the I-215 Freeway. In addition, there are six residential tracts comprised of 1,241 residential units, which are anticipated to start this year in phases. Therefore, no industrial development in the City of Perris is allowed to utilize Ethanac Road or Goetz Road as a truck route due to the sensitivity of residential land uses along these two roadways.

The City has concerns with this project as it is out of character with the surrounding residential areas in Menifee and the City of Perris. The City provides the below comments in light of the Project's proximity to the City of Perris residential neighborhood and concerns with potential truck traffic on Ethanac Road:

1. **California Environmental Quality Act (CEQA)** - The Project needs to address the cumulative impact of all the proposed projects within a 1.5-mile radius of the proposed site to analyze, mitigate, and disclose all environmental impacts from the Proposed Project pursuant to the California Environmental Quality Act (CEQA). The CEQA document should particularly evaluate impacts on the residential land uses, land use compatibility, truck circulation, traffic impacts, and noise impacts. In addition, A Health Risk Assessment is required under the *Sierra Club v. City of Fresno* case to evaluate health impacts on nearby residents.

Please provide future notices prepared for the Project pursuant to the California Environmental Quality Act (“CEQA”) under any provision of Title 7 of the California Government Code governing California Planning and Zoning Law which includes: notices of any public hearing held pursuant to CEQA, and notices of any scoping meeting held pursuant to Public Resources Code Section 21083.9.

2. **1,800-Foot Property Owners Notification** - Due to nearby sensitive uses, it is requested that property owner notification within at least 1,800-feet of the project site is provided to ensure that all individuals who could potentially be impacted are provided an opportunity to comment.
3. **Land Use Inconsistency with Surrounding Areas** - The proposed industrial development is incompatible with the residential development in both the City of Perris and Menifee as on the south side of McLaughlin Road, the west side of Goetz Road, and the north side of Ethanac Road, are all designated for low-density residential development.
4. **Truck Circulation Route** – The developer should be required to prepare a Truck Circulation Plan to ensure consistency with the recently approved City of Perris Truck Route. Any truck access should be on McLaughlin Road to Barrett Avenue to Ethanac Road to access the I-215 Freeway due to proximity to residential land uses on the north side of Ethanac Road. In addition, it should be noted that the existing median on Ethanac Road is within Perris City limits and is not designed for truck queuing. In addition, since it does not appear to be any landscaped median required on McLaughlin Road, truck traffic is better suited for this roadway.
5. **Transportation** - Prior to further proceedings, to ensure consistency, the right-of-way widths, and alignments of Ethanac Road and Murrieta Road shall be coordinated with the roadway designation as classified per City of Perris’ General Plan. The correlation will determine the extent of roadway and intersection improvements at the intersection of Murrieta Road and Ethanac Road to accommodate the traffic impacts related to the project’s passenger vehicle trips.
 - a. Both a full Traffic Impact Study and VMT Analysis are required for this project. The traffic analysis shall be consistent with the Menifee Economic Development Corridor - Master Plan Circulation Study, which is currently in the scoping phase.
 - b. A traffic study scoping agreement should be submitted to the City of Perris to ensure the study follows the City of Perris guidelines/procedures in addition to those for the City of Menifee.
 - c. The City of Menifee should be notified that there is no truck traffic allowed on Ethanac Road west of Barnett Road as indicated in the most recent City of Perris approved truck

routes exhibit (see Appendix A). The traffic study needs to separate the trip distribution patterns for passenger vehicles and trucks, and prohibit trucks from utilizing Ethanac Road west of Barnett Road.

- d. The traffic study and DEIR need to assess all the proposed Menifee warehouse projects located in the vicinity of the project, most notably those included within the Menifee Economic Development Corridor-Northern Gateway (EDC-NG) area. Additionally, the traffic consultant needs to coordinate with City of Perris planning staff to obtain a list of Perris cumulative projects for use in the traffic study. There are also projects located to the east within the City of San Jacinto that could also impact the I-215 ramp intersections along Ethanac Road. Intersections within the City of Perris need to be assessed based upon the City's criteria as shown in Appendix B.
- e. The traffic study needs to address the realignment of Barnett Road to align with Case Road as part of the study. Appropriate mitigation will be needed to assess the traffic impacts and queuing because of the currently offset intersections between Barnett Road and Case Road along Ethanac Road.
- f. With all the proposed Menifee projects within the Menifee Economic Development Corridor-Northern Gateway (EDC-NG) area, traffic queuing along Ethanac Road from Murietta Road to the I-215 northbound ramps are of concern. The traffic study and DEIR need to address queuing issues in this area as it may affect traffic operations.
- g. The traffic study needs to address potential modifications to the existing I-215 freeway interchange at Ethanac Road because of this project and others that affect this interchange.

Prior to further proceedings, to ensure consistency, the right-of-way widths and alignments of Ethanac Road and Murrieta Road shall be coordinated with the roadway designation as classified per City of Perris' General Plan. The correlation will determine the extent of roadway and intersection improvements at the intersection of Murrieta Road and Ethanac Road to accommodate the traffic impacts related to the project's passenger vehicle trips. The Traffic Impact Analysis (TIA) should include an analysis of the intersection of Ethanac Road and Murrieta Road. Listed below are City of Perris' roadway designations for Ethanac Road and Murrieta Road.

- Ethanac Road is classified as an Expressway (184'/134') with a 14 foot wide raised landscaped median.
- Murrieta Road is classified as a Secondary Arterial (94'/70') with a 14 foot wide raised landscaped median.

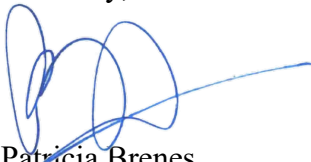
It shall be noted that trucks are not permitted to travel on Ethanac Road west of Barnett Road. Trucks, accessing I-215 from Ethanac Road, should use Barnett Road; and for truck access to the project site, a collector roadway, with a minimum 66-foot-wide right-of-way, be provided along the north side of the SCE easement from Barnett Avenue to Byers Road. Also, Barnett Road at Ethanac Road shall be aligned with Case Road and improved to ultimate design for an

efficient full turn signalized intersection. Based on the results, appropriate improvements will need to be identified. Upon completion of the Draft Traffic Impact Analysis, please provide the City with a copy to review and comment.

6. **Noise.** An acoustical/noise analysis shall be prepared to mitigate noise impacts from the Project resulting from construction and operation in proximity to the residential development surrounding the site, and along the west side of Goetz Road and the south side of Ethanac Road.

The City of Perris thanks you for considering these comments. Please feel free to contact me at (951) 943-5003, ext. 355, if you have any questions or would like to discuss the above concern in further detail.

Sincerely,



Patricia Brenes
Planning Manager

cc: Clara Miramontes, City Manager
Wendell Bugtai, Assistant City Manager
Robert Khuu, City Attorney
Kenneth Phung, Developments Services Director
John Pourkazemi, City Engineer



November 28, 2023

Brett Hamilton, Senior Planner
City of Menifee
29844 Haun Road
Menifee, CA 92586

RE: Murrieta Road Warehouse Project, SCH #2023110162

Dear Mr. Hamilton:

Thank you for the opportunity to provide comments on the Notice of Preparation for the Murrieta Road Warehouse Project. While the logistics industry is an important component of our modern economy, warehouses can bring various environmental impacts to the communities where they are located. For example, diesel trucks visiting warehouses emit nitrogen oxide (NO_x)—a primary precursor to smog formation and a significant factor in the development of respiratory problems like asthma, bronchitis, and lung irritation—and diesel particulate matter (a subset of fine particulate matter that is smaller than 2.5 micrometers)—a contributor to cancer, heart disease, respiratory illnesses, and premature death.¹ Trucks and on-site loading activities can also be loud, bringing disruptive noise levels during 24/7 operation that can cause hearing damage after prolonged exposure.² The hundreds, and sometimes thousands, of daily truck and passenger car trips that warehouses generate can contribute to traffic jams, deterioration of road surfaces, traffic accidents, and unsafe conditions for pedestrians and bicyclists. Depending on the circumstances of an individual project, warehouses may also have other environmental impacts.

To help lead agencies avoid, analyze, and mitigate warehouses' environmental impacts, the Attorney General Office's Bureau of Environmental Justice has published a document containing best practices and mitigation measures for warehouse projects. We have attached a

¹ California Air Resources Board, Nitrogen Dioxide & Health, <https://ww2.arb.ca.gov/resources/nitrogen-dioxide-and-health> (NO_x); California Air Resources Board, Summary: Diesel Particulate Matter Health Impacts, <https://ww2.arb.ca.gov/resources/summary-diesel-particulate-matter-health-impacts>; Office of Environmental Health Hazard Assessment and American Lung Association of California, Health Effects of Diesel Exhaust, <https://oehha.ca.gov/media/downloads/calenviroscreen/indicators/diesel4-02.pdf> (DPM).

² Noise Sources and Their Effects, <https://www.chem.purdue.edu/chemsafety/Training/PPETrain/dblevels.htm> (a diesel truck moving 40 miles per hour, 50 feet away, produces 84 decibels of sound).

November 28, 2023

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copy of this document to this letter, and it is also available online.³ We encourage you to consider the information in this document as you prepare the draft environmental impact report for this project.

Priority should be placed on avoiding land use conflicts between warehouses and sensitive receptors and on mitigating the impacts of any unavoidable land use conflicts. However, even projects located far from sensitive receptors may contribute to harmful regional air pollution, so you should consider measures to reduce emissions associated with the project to help the State meet its air quality goals. A distant warehouse may also impact sensitive receptors if trucks must pass near sensitive receptors to visit the warehouse.

The Bureau will continue to monitor proposed warehouse projects for compliance with the California Environmental Quality Act and other laws. We are available to discuss as you prepare the draft environmental impact report and consider how to guide warehouse development in your jurisdiction. Please do not hesitate to contact the Environmental Justice Bureau at ej@doj.ca.gov if you have any questions.

Sincerely,



CHRISTIE VOSBURG
Supervising Deputy Attorney General

For ROB BONTA
Attorney General

³ <https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf>.



Hans W. Kernkamp, General Manager-Chief Engineer

SENT VIA EMAIL ONLY

bhamilton@cityofmenifee.us

November 28, 2023

Brett Hamilton, Senior Planner
City of Menifee (City), Community Development Department
29844 Haun Road
Menifee, CA 92586

RE: Notice of Preparation (NOP) and Public Scoping Meeting Notice for a Draft Environmental Impact Report (DEIR) for the proposed "Murrieta Road Warehouse" Project; Planning Case No. DEV2022-017, and Major Plot Plan No. PLN22-0179

Dear Mr. Hamilton,

The Riverside County Department of Waste Resources (RCDWR) has reviewed the NOP addressing a DEIR for the proposed Murrieta Road Warehouse Project (Project). The Project includes various applications to allow for the construction of a concrete tilt-up building that would total approximately 517,720-square foot (SF) and proposes a structural height of approximately 55 feet, 409 automobile parking spaces, and 194 truck trailer parking spaces. The environmental analysis includes a development buffer in order to account for final design changes, equivalent to three percent of the building SF, or 15,532 SF, which would result in a building area of 533,252 SF (including 20,320 SF of office space, 505,932 SF of warehouse space, and 7,000 SF of mezzanine),

The RCDWR offers the following comments for your consideration while preparing the Project's final EIR:

1. Construction of the Project may generate a substantial quantity of construction and demolition (C&D) waste. Should a large quantity of C&D waste, that is unable to be recycled, be brought to a County landfill for disposal, it could exceed the landfill's daily permitted capacity, thus a violation of state regulations.¹ To assess waste impacts, the DEIR should consider quantitatively analyzing this potential solid waste impact and discuss feasible mitigation programs/regulatory compliance.

Note: CalRecycle's website may be helpful to determine the Project's waste generation:

<https://www2.calrecycle.ca.gov/WasteCharacterization/General/Rates>

2. The following information can be useful in the analysis of the solid waste impacts:
 - a) Solid waste generated within the Project area is collected by WMI, with the bulk of recyclable waste and green waste delivered to the Moreno Valley Solid Waste Recycling

¹ Title 40, Vol. 41 C.F.R § 243.203 *et seq.* (1976).

and Transfer Station (MVTs) for processing. The facility is located at 17700 Indian Street in Moreno Valley. It is permitted for a 2,500 tons per day (tpd) operation.

- b) The waste hauler may utilize the El Sobrante, Lamb Canyon, and/or the Badlands Landfill for disposal. Descriptions of the local landfills are provided below:

El Sobrante Landfill:

The El Sobrante Landfill is located east of Interstate 15 and Temescal Canyon Road to the south of the City of Corona and Cajalco Road at 10910 Dawson Canyon Road. The landfill is owned and operated by USA Waste of California, a subsidiary of Waste Management, Inc., and encompasses 1,322 acres, of which 645 acres are permitted for landfill operation. The El Sobrante Landfill has a total disposal capacity of approximately 209.9 million cubic yards and can receive up to 70,000 tons per week (tpw) of refuse. USA Waste must allot at least 28,000 tpw for County refuse. The landfill's permit allows a maximum of 16,054 tons per day (tpd) of waste to be accepted into the landfill, due to the limits on vehicle trips. If needed, 5,000 tpd must be reserved for County waste, leaving the maximum commitment of Non-County waste at 11,054 tpd. Per the 2021 Annual Report, the landfill had a remaining in-County disposal capacity of approximately 50.1 million tons.² In 2022, the El Sobrante Landfill accepted a daily average of 10,646 tons with a period total of approximately 3,278,846 tons. The landfill is expected to reach capacity in approximately 2057.

Lamb Canyon Landfill:

The Lamb Canyon Landfill is located between the City of Beaumont and City of San Jacinto at 16411 Lamb Canyon Road (State Route 79), south of Interstate 10 and north of Highway 74. The landfill is owned and operated by Riverside County. The landfill property encompasses approximately 1,189 acres, of which 703.4 acres encompass the current landfill permit area. Of the 703.4-acre landfill permit area, approximately 144.6 acres are permitted for waste disposal. The landfill is currently permitted to receive 5,000 tpd of MSW for disposal and 500 tpd for beneficial reuse. The site has an estimated total disposal capacity of approximately 21.1 million tons.³ As of January 1, 2023 (beginning of day), the landfill has a total remaining capacity of approximately 7.3 million tons.⁴ The current landfill remaining disposal capacity is estimated to last, at a minimum, until approximately 2032.⁵ From January 2022 to December 2022, the Lamb Canyon Landfill accepted a daily average of 1,969 tons with a period total of approximately 606,481 tons. Landfill expansion potential exists at the Lamb Canyon Landfill site.

Badlands Landfill:

The Badlands Landfill is located northeast of the City of Moreno Valley at 31125 Ironwood Avenue and accessed from State Highway 60 at Theodore Avenue. The landfill is owned and operated by Riverside County. The existing landfill encompasses 1,168.3 acres, with

² 2021 El Sobrante Landfill Annual Report- Based on 125,193,774 tons remaining capacity (40% for in-county waste).

³ GASB 18_2022 – Engineering Estimate for total landfill capacity

⁴ GASB 18_2022 & SiteInfo

⁵ SWFP # 33-AA-0007

a total disturbance area of 278 acres, of which 150 acres are for refuse disposal. Landfill expansion potential exists at the Badlands Landfill site. Under the 2022 Solid Waste Facility Permit (SWFP), the permitted disturbance area increased from 278 acres to 811 acres, and the refuse disposal area increased from 150 acres to 409 (in multiple stages). The landfill is currently permitted to receive 5,000 tpd of MSW for disposal and 300 tpd for beneficial reuse. The site has an estimated total capacity of approximately 82.3 million tons.⁶ As of January 1, 2023 (beginning of day), the landfill had a total remaining disposal capacity of approximately 3.5 million tons.⁷ Under the 2022 SWFP, the landfill would have a remaining disposal capacity estimated to last, at a minimum, until approximately 2059.⁸ From January 2022 to December 2022, the Badlands Landfill accepted a daily average of 2,660 tons with a period total of approximately 819,166 tons.

3. Additionally, you may wish to consider incorporating the following measures to help reduce the Project's anticipated solid waste impacts and enhance efforts to comply with the State's mandate (AB 75) of 50% solid waste diversion from landfilling⁹:

- The use of mulch and/or compost in the development and maintenance of landscaped areas within the project boundaries is recommended. Recycle green waste through either onsite composting of grass, i.e., leaving the grass clippings on the lawn, or sending separated green waste to a composting facility.
- Consider xeriscaping and the use of drought tolerant low maintenance vegetation in all landscaped areas of the project.
- Hazardous materials are not accepted at the Riverside County landfills. Any hazardous wastes, including paint, used during construction must be properly disposed of at a licensed facility in accordance with local, state and federal regulations. For further information regarding the determination, transport, and disposal of hazardous waste, please contact the Riverside County Department of Health, Environmental Protection and Oversight Division, at 1.888.722.4234.
- AB 341 focuses on increased commercial waste recycling as a method to reduce greenhouse gas (GHG) emissions.¹⁰ The regulation requires businesses and organizations that generate four or more cubic yards of waste per week and multifamily units of 5 or more, to recycle. A business shall take at least one of the following actions in order to reuse, recycle, compost, or otherwise divert commercial solid waste from disposal:
 - Source separate recyclable and/or compostable material from solid waste and donate or self-haul the material to recycling facilities.
 - Subscribe to a recycling service with waste hauler.
 - Provide recycling service to tenants (if commercial or multi-family complex).

⁶ SWFP # 33-AA-0006

⁷ GASB_18_2022 & SiteInfo

⁸ SWFP # 33-AA-0006

⁹ A.B. 75, Chapter 764, 1999-2000 Strom-Martin, (Cal. 1999).

¹⁰ A.B. 341, Chapter 476, 2011-2012 Chesbro, (Cal. 2011).

- Demonstrate compliance with requirements of California Code of Regulations Title 14.

For more information, please visit:

<http://www.rcwaste.org/business/recycling/mcr>

- AB 1826 requires businesses and multifamily complexes to arrange for organic waste recycling services.¹¹ Those subject to AB 1826 shall take at least one of the following actions in order to divert organic waste from disposal:
 - Source separate organic material from all other recyclables and donate or self-haul to a permitted organic waste processing facility.
 - Enter into a contract or work agreement with gardening or landscaping service provider or refuse hauler to ensure the waste generated from those services meet the requirements of AB 1826.
- Demonstrate compliance with SB 1383 which establishes regulations to reduce organics waste disposal and went into effect on January 1, 2022.¹² This law establishes methane emissions reduction targets in a statewide effort to reduce emissions of short-lived climate pollutants caused by organics waste disposal.

Thank you for including RCDWR in the review process. Please continue to include the RCDWR in future transmittals. Please email me at kaavila@rivco.org if you have any questions regarding the above comments.

Sincerely,



Katherine Avila
Urban/Regional Planner I

Cc: Kinika Hesterly, RCDWR

DM# 323120

¹¹ A.B. 1826, Chapter 727, 2013-2014 Chesbro, (Cal. 2014).

¹² A.B 1383, Chapter 395, 2015-2016 Lara, (Cal. 2016).

JASON E. UHLEY
General Manager-Chief Engineer



1995 MARKET STREET
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www.rcflood.org
253807

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

November 27, 2023

City of Menifee
Planning Division
29714 Haun Road, Building A
Menifee, CA 92586

Attention: Brett Hamilton

Re: DEV 2022-017, PLN 22-0179, Murrieta Road
Warehouse, APNs 330-210-010, 330-210-011,
330-210-013, 330-210-062; 330-560-001 through
330-560-040; 330-570-001 through 330-570-033
and 330-571-001 through 330-571-005

The Riverside County Flood Control and Water Conservation District (District) does not normally recommend conditions for land divisions or other land use cases in incorporated cities. The District also does not plan check City land use cases or provide State Division of Real Estate letters or other flood hazard reports for such cases. District comments/recommendations for such cases are normally limited to items of specific interest to the District including District Master Drainage Plan facilities, other regional flood control and drainage facilities which could be considered a logical component or extension of a master plan system, and District Area Drainage Plan fees (development mitigation fees). In addition, information of a general nature is provided.

The District's review is based on the above-referenced project transmittal, received November 6, 2023. The District **has not** reviewed the proposed project in detail, and the following comments do not in any way constitute or imply District approval or endorsement of the proposed project with respect to flood hazard, public health and safety, or any other such issue:

- This project would not be impacted by District Master Drainage Plan facilities, nor are other facilities of regional interest proposed.
- This project involves District proposed Master Drainage Plan facilities, namely, Romoland Master Drainage Plan Line A-12. The District will accept ownership of such facilities on written request by the City. The Project Applicant shall enter into a cooperative agreement establishing the terms and conditions of inspection, operation, and maintenance with the District and any other maintenance partners. Facilities must be constructed to District standards, and District plan check and inspection will be required for District acceptance. Plan check, inspection, and administrative fees will be required. All regulatory permits (and all documents pertaining thereto, e.g., Habitat Mitigation and Monitoring Plans, Conservation Plans/Easements) that are to be secured by the Applicant for both facility construction and maintenance shall be submitted to the District for review. The regulatory permits' terms and conditions shall be approved by the District prior to improvement plan approval, map recordation, or finalization of the regulatory permits. There shall be no unreasonable constraint upon the District's ability to operate and maintain the flood control facility(ies) to protect public health and safety.
- If this project proposes channels, storm drains larger than 36 inches in diameter, or other facilities that could be considered regional in nature and/or a logical extension a District's facility, the District would consider accepting ownership of such facilities on written request by the City. The Project Applicant shall enter into a cooperative agreement establishing the terms and conditions of inspection, operation, and maintenance with the District and any other maintenance partners. Facilities must be constructed to District standards, and District plan check and inspection will be required for District acceptance. Plan check, inspection, and administrative fees will be required. The regulatory permits' terms and conditions shall be approved by the District prior to improvement plan approval, map recordation, or finalization of the regulatory permits. There

Re: DEV 2022-017, PLN 22-0179, Murrieta Road
Warehouse, APNs 330-210-010, 330-210-011, 330-210-013, 330-210-062; 330-560-001 through 330-560-040; 330-570-001 through 330-570-033 and 330-571-001 through 330-571-005

253807

shall be no unreasonable constraint upon the District's ability to operate and maintain the flood control facility(ies) to protect public health and safety.

- This project is located within the limits of the District's Homeland/Romoland Line A Area Drainage Plan for which drainage fees have been adopted; applicable fees should be paid by cashier's check or money order only to the Flood Control District or City prior to issuance of grading permits. Fees to be paid should be at the rate in effect at the time of issuance of the actual permit.
- An encroachment permit shall be obtained for any construction related activities occurring within District right of way or facilities, namely, Romoland Master Drainage Plan Line A-14. If a proposed storm drain connection exceeds the hydraulic performance of the existing drainage facilities, mitigation will be required. For further information, contact the District's Encroachment Permit Section at 951.955.1266.
- The District's previous comments dated July 22, 2022 are still valid.

GENERAL INFORMATION

This project may require a National Pollutant Discharge Elimination System (NPDES) permit from the State Water Resources Control Board. Clearance for grading, recordation, or other final approval should not be given until the City has determined that the project has been granted a permit or is shown to be exempt.

If this project involves a Federal Emergency Management Agency (FEMA) mapped floodplain, then the City should require the applicant to provide all studies, calculations, plans, and other information required to meet FEMA requirements, and should further require that the applicant obtain a Conditional Letter of Map Revision (CLOMR) prior to grading, recordation, or other final approval of the project and a Letter of Map Revision (LOMR) prior to occupancy.

The project proponent shall bear the responsibility for complying with all applicable mitigation measures defined in the California Environmental Quality Act (CEQA) document (i.e., Negative Declaration, Mitigated Negative Declaration, Environmental Impact Report) and/or Mitigation Monitoring and Reporting Program, if a CEQA document was prepared for the project. The project proponent shall also bear the responsibility for complying with all other federal, state, and local environmental rules and regulations that may apply. The CEQA document should include 1) a description and environmental analysis of any new flood control facility(ies) that will be constructed as part of the project or existing flood control facility(ies) that will be impacted as a result of the project and 2) MSHCP consistency determinations, particularly with sections 6.1.2, 6.1.3, 6.1.4, 6.3.2, 7.3.7, 7.5.3 and appendix C of the MSHCP. Please note that if a Draft CEQA document is submitted, the Final adopted or certified CEQA document will also need to be provided to the District prior to final District acceptance of any flood control facility(ies).

If a natural watercourse or mapped floodplain is impacted by this project, the City should require the applicant to obtain a Section 1602 Agreement from the California Department of Fish and Wildlife and a Clean Water Act Section 404 Permit from the U.S. Army Corps of Engineers, or written correspondence from these agencies indicating the project is exempt from these requirements. A Clean Water Act Section 401 Water Quality Certification may be required from the local California Regional Water Quality Control Board prior to issuance of the Corps 404 permit.

Very truly yours,



AMY MCNEILL
Engineering Project Manager

Attachment

EM:ju



12/07/2023

VIA EMAIL ONLY

Brett Hamilton, Senior Planner
Community Development Department
City of Menifee
29844 Haun Road
Menifee, CA 92586
bhamilton@cityofmenifee.us

RE: NOP Comments for the Murrieta Road Warehouse Project

Dear Mr. Hamilton,

The comments are submitted on behalf of Californians Allied for a Responsible Economy ("CARE CA") regarding the Notice of Preparation ("NOP") of a Draft Environmental Impact Report ("DEIR") for Murrieta Road Warehouse Project ("the Project"). CARE CA understands that the proposed Project includes the development of an approximately 517,720-square foot speculative warehouse building.

The goal of an EIR is to provide decisionmakers and the public with detailed information about the effects of a proposed project on the environment, how significant impacts will be minimized and alternatives to the project (Pub. Res. Code § 21002.2). We, therefore, respectfully request a complete analysis of all identified impacts, imposition of all feasible mitigation and study of a reasonable range of alternatives. In addition, we wish to provide the following comments:

Industrial Uses: We encourage the City to study all reasonably foreseeable uses including higher intensity uses such as cold storage and subsequent potential use of transportation refrigeration units (TRUs) during project operations. The uses should be clearly quantified so that the full potential impacts of the Project, such as air quality, GHG emissions, public health risk and other environmental effects are comprehensively evaluated.

Air Quality & Public Health: The Project will have high daily volumes of heavy-duty diesel truck traffic, transportation refrigeration units (TRUs), and on-site equipment (e.g., backup generators, forklifts, and yard tractors) that will pollute the air with toxic diesel emissions and expose communities to further air pollution and climate change.

The Initial Study (IS) claims that "the outdoor cargo handling equipment used during loading, and unloading of trailers (e.g., yard trucks, hostlers, yard goats, pallet jacks, forklifts) would be

non-diesel powered, per contemporary industry standards.” (IS p. 27.) We disagree that non-diesel powered cargo-handling equipment is industry standard. Furthermore, the tenant is unknown and there are no statutory regulations or requirements that ensure future tenants will use such equipment. Therefore, the air quality analysis must assume use of diesel-powered equipment.

The City should make all efforts to minimize air quality effects to the greatest extent possible. In this regard, the Air Quality analysis should also be based on actual emissions data from existing similar sized warehouse projects rather than computer generated estimates and address the impacts of particulate matter from the diesel trucks on the health of the public.

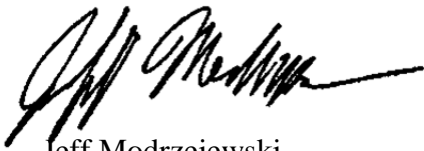
A Statement of Overriding Considerations should be considered only after ALL feasible mitigation measures are included in the MMRP.

Greenhouse Gas Emissions: To determine the significance of the Project’s GHG, we urge the City to adopt quantitative thresholds that embody climate change’s existential threat to humankind and provide detailed discussion on the Applicant’s plan to offset the Project’s GHG emissions. We can always do more to slow down global warming.

Thank you for the opportunity to submit NOP comments. Please provide all sources and referenced materials when the DEIR is made available. Again, CARE CA respectfully requests under CEQA full analysis of the environmental impacts, feasible mitigation, and reasonable alternatives to the Project.

We look forward to reviewing and commenting on the DEIR.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Modrzejewski", with a long horizontal flourish extending to the right.

Jeff Modrzejewski
Executive Director

From: [Brett Hamilton](#)
To: [Konnie Dobrev](#)
Cc: [Sam Kelley](#); jmclaughlin@aresmgmt.com
Subject: FW: Murrieta warehouse project
Date: Monday, December 11, 2023 7:15:28 AM

[NON-EPD]

From: Kelly DeChristopher <kellydmovesu@gmail.com>
Sent: Thursday, December 7, 2023 8:50 PM
To: Brett Hamilton <bhamilton@cityofmenifee.us>
Subject: Murrieta warehouse project

You don't often get email from kellydmovesu@gmail.com. [Learn why this is important](#)

[CAUTION]: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I with my 3 children and wife live on Floyd ave. We bought this home a little over 3 years ago to live our rural living dreams.

The location is perfect because I also share this street with my Parents, sister and a mother in law. 5 houses total. We have chickens a large garden and are planning on cross fencing for goats. My kids are able to ride their bikes to play with cousins or visit Grandmas. It really has been a dream. Now that all seems to be in jeopardy with this planned warehouse project. Below are some bullet points that are specifically troubling for us.

Quality of life for my family, and children

24 hour truck neighborhood traffic near residential.

Devaluation of my home is a HUGE ONE

Geary shouldn't be a two lane road while our homes our still here. Limit the traffic by making it an exit only for the warehouse or better yet do not allow traffic to go through our residential neighborhood at all

Unwanted traffic on our maintained private maintained road.

Smog caused by this and future projects

Completely surrounding our residential homes with future projects sure to follow.

Rain run off and flooding

Destroying our residential rural neighborhood atmosphere.

Cutting my side of the street off from children to be able to continue to enjoy our neighborhood.

I feel like Menifee wants us to be miserable so we are likely to move or sell for less to wanting developers. We are being betrayed by our representatives. Our neighborhood is being treated like commercial and not the rural residential that it currently is.

Kelly DeChristopher

Realtor

Cell: 951-966-8250

Email: Kellydmovesu@gmail.com

25655 Floyd Ave.

Menifee, Ca. 92585

Fax: 951-346-3144

Mr. and Mrs. DeChristopher
25810 Floyd Ave. Menifee, 92585
951-733-6896

To Brett Hamilton, Senior Planner

Regarding the **Murrieta warehouse road project**, my wife and I live at the corner of Floyd Avenue and Geary Rd. Our names are Fernand and Kim DeChristopher. We purchased our home 23 years ago. We had the option of living in other more urban areas, but we chose to live in a more country like environment. Since, the city of Menifee has taken it upon themselves to rezone the northern most section of Menifee, where we currently live and have invested for our future. We are now in the Economic Corridor. I understand this is best for the city and it's always about money, tax revenue etc. We were told by the representative for the developer in the last meeting that this project will go in and lead us to believe that there was nothing we as homeowners living in this area would be able to do about preventing the project from happening. I thought to myself that was not a true statement, because anything could happen to delay or cancel the project. For example, a lawsuit. The city of Menifee realizes what type of impact this will have on the residence of this community, but from my understanding it's a process that you need to get through so the groundwork can begin.

Some of our biggest concerns are as follows.

1. Menifee wants our area to be developed. You also know we were all in escrow with the Panettoni development group. Why can't the city work with another developer to purchase our homes so that we don't have to deal with all the negativity this Murieta Road project will bring? This project, as you realize, will hinder our way of life. This would allow homeowners to purchase another property so that we could continue living the live style we have invested in.
2. Living right on the corner of Floyd Ave and Geary Rd, we will be impacted in a very negative way. Geary Rd is a dirt road and has very little traffic. Floyd Ave is a gravel road and is used mostly by the residents. We feel it would be important to dead end Floyd Ave at Geary Rd. to lessen the heavy traffic and street noise. Also,

there should be a sign at Murrieta Rd and Floyd Ave stating that Floyd isn't a through street. We were told the project would be in operation 24 hours a day and 7 days a week.

3. We would expect there to be at least a 25-foot set back from our property to Geary Rd. It seems you would also be required to build a soundproof wall along the west side of our parcel.

4. Floyd Ave is maintained by the residents and if the project does move forward, the developer should be responsible to pave Floyd Ave bring in sewer, curbs should be installed, and the developer / Menifee should be responsible for payment to hook our homes to the sewer.

If the project is completed our way of life will be destroyed. Noise, traffic, air quality and as a real estate broker I know it will bring down our property values. My wife and I are seniors and worked for years to build equity in our property for our retirement and this project will affect our retirement tremendously. It's not so easy to sell a home to a buyer when it must be disclosed to them that they may be surrounded by Industrial buildings.

The city of Menifee needs to do what's right and work with other developers and purchase the remaining homes that will be negatively affected by the developments and use this economic corridor for what it was proposed for.

Please email and Mail us a copy of the NOP

Chrismovesu@gmail.com

Concerned Residents,

Fernand and Kim DeChristopher

WE APPRECIATE YOUR PARTICIPATION

EIR Scoping Meeting Comment Form

Murrieta Road Warehouse Project
City of Menifee, California

The City of Menifee requests your participation in the planning process for this project. Your comments will assist us in addressing your concerns in the Environmental Impact Report (EIR).

You may submit your comments at the November 28, 2023, scoping meeting or, if you prefer, you can mail or e-mail your comments to the City of Menifee:

Mail/Delivery: Brett Hamilton, Senior Planner
City of Menifee Community Development Department
829844 Haun Road
Menifee, CA 92586

E-mail: bhamilton@cityofmenifee.us

For your convenience, three specific questions are listed to help organize your comments. (Note that this is a two-sided form).

1. What specific environmental impact issues would you like to see addressed in the EIR?

Traffic Issues, Noise Issues, Air Pollution
Issues, Quality of Life, Property Values,
Operating Hours

2. What specific suggestions do you have to avoid or reduce one or more environmental impacts of this project?

Move the project. Too many problems
in current location.

3. What is your preferred method of learning about future meetings and obtaining additional information about this project?

Newspaper Notices

Direct Mail

Website

Other (Please specify) email: pharwick@yahoo.com

4. Would you like us to e-mail you a copy of the NOP? Yes No

Your Name: Peter Harwick

Mailing Address: 25910 Camino Juarez

Telephone Number: 951-301-3680

E-mail: pharwick@yahoo.com

Group You Represent: President - Casa Murrieta
Estates HOA

Chris and Virginia Vender
25845 Floyd Ave.
Menifee Ca 92585

December 6th, 2023

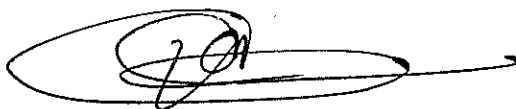
Brett Hamilton, Senior Planner City of Menifee
829844 Haun Rd.
Menifee Ca 92586
bhamilton@cityofmenifee.us

Dear Mr. Hamilton,

We are writing this letter to express our serious concerns regarding the project near Floyd Ave. As you can see by our address we are both homeowners on this street. Our first concern is that the building is going up 25 feet from our backyard fence. With this plan you will be severely dropping our home's resale value even more than the majority homes on the street. The equity we have in our home is the investment we have in our future as it is for most homeowners. Also with a warehouse building that close will come with loud noises, truck pollution, and traffic. Per the city proposal at the meeting we were told Floyd would be used as a pass through street causing people to use our street as a detour and not be paved. It only makes sense that if Menifee is putting together a project that will cause more traffic for residents they would at the very least pave that road. Our dirt road can barely handle the traffic it has now. In addition this should include blocking off Floyd from Geary so that drivers will not be using our dirt road and would help negate some of the traffic. Floyd becoming a through street is also extremely concerning as our door is not far from the street. This is unsafe for our children and animals.

As you continue to develop we respectfully request that you consider these concerns in your planning. It only makes sense that since Menifee designated this area as an Economic Corridor knowing this will have a big impact on the residents that it be used the way it was intended. So we ask that you consider this and work with developers in buying our property as well. Or the city of Menifee should compensate us for the value loss in our properties as this project is taking away at least 20% of the home value and this is our family's investment.

Thank you for your consideration to this project,



Chris Vender



Virginia Vender

WE APPRECIATE YOUR PARTICIPATION

EIR Scoping Meeting Comment Form

Murrieta Road Warehouse Project City of Menifee, California

The City of Menifee requests your participation in the planning process for this project. Your comments will assist us in addressing your concerns in the Environmental Impact Report (EIR).

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E-mail: bhamilton@cityofmenifee.us

For your convenience, three specific questions are listed to help organize your comments. (Note that this is a two-sided form).

1. What specific environmental impact issues would you like to see addressed in the EIR?

1. NOISE 2. TRAFFIC 3. FLOOD CONTROL 4. MURRIETA TRAFFIC CONTROL 5. GEARY PAVING 6. LARGE WALLS BEHIND OUR HOMES. 7. TAKING OUR PROPERTY TO HAVE GEARY'S NIGHT LIGHTING. 9. AIR QUALITY 10. TRUCK ACCESS ONLY FROM MURRIETA. ITS DIFFICULT ENOUGH WITH THE LONG LINE OF TRAFFIC GOING NORTH (NO TURN LANES) - NOW ADD TRUCKS..

2. What specific suggestions do you have to avoid or reduce one or more environmental impacts of this project?

1. PAVING GEOTZ RD. VEHICLES ALREADY CUTTING THRU TO FLOYD AVE TO AVOID SIGNAL AND NO TURN LANES AT MURRIETA AND ETHANAC. PAVING ONLY OPENS UP ACCESS TO OUR PRIVATE ROAD. WE MAINTAIN - NOT THE CITY OF MENIFEE.

* How does this warehouse project propose to mitigate the impact to our neighborhood?

3. What is your preferred method of learning about future meetings and obtaining additional information about this project?

Newspaper Notices

Direct Mail

Website

Other (Please specify) _____

All of Above

4. Would you like us to e-mail you a copy of the NOP? Yes No

Your Name:

ADRIENNE VENDER

Mailing Address:

25820 FLOYD AVE MENIFEE 92855

Telephone Number:

951-657-3009

E-mail:

AVENDER @ USA.NET

Group You Represent:

19 HOMES ON FLOYD AVE

5 HOMES ARE FAMILY MEMBERS

USA NET

New Message

From: "Adrienne Vender" <avender@usa.net>

To: Brett Hamilton, Senior Planner

0 Items

'''

Subject:

TO CC BCC

Cc: Bob Karwin, District 1, Councilman

Bcc:

Save Sent Send as HTML Read Receipt --- Stationery --- Priority: Normal

Dear Brett,

On a side note, we 19 residents on Floyd Ave, have lived here for over 20 yers. Knowing that Ethanac Road would be a thoroughfare to the 15 freeway. The property adjacent would be zoned commercial. Two streets away. Our beautiful one acre properties, our forever homes, we put in separate garages, metal buildings, horse corrals, pools etc. Not one of us was informed that we had been rezoned. The city of Perris choose to put in homes. They also sued Menifee, no once, but twice so not to have warehouses on Ethanac Road. We all have been approached to sell our properties. Finally after much heartache, we were offered a sizeable amount and were all were under contract. That fell through after the lawsuits. Now, the Menifee Road Warehouse Project, not anywhere near Ethanac, has been proposed. It is right behind our houses and would deeply impact our neighborhood with traffic, noise, lights, trucks etc. Not to include the fact our neighborhood would be boxed in and the values of our homes would decrease significantly. We are requesting information on a compplete impact of all the projects they propose including the City's Good Neighbor Policy.
Thank you.

Adrienne Vender
25920 Floyd Ave
Menifee, CA 92585
951-687-3009

Click the "Browse" button to locate the file you need, and select it. The file path will appear in the attachment field. Next, click "Attach" to attach the selected file to your message. When you send your message, the attached file is automatically enclosed.

Attach Remove

Attachment: no file selected