

# IS/MND Appendix A

---

Air Quality, Greenhouse Gas  
Emissions, and Energy Technical  
Report

# Camino Largo Residential Project

Air Quality, Greenhouse Gas Emissions,  
and Energy Technical Report

December 2021 | 02951.00013.001

*Submitted to:*

**City of Vista  
Community Development Department**  
200 Civic Center Drive  
Vista, CA 92084-6275

*Prepared for:*

**California West Communities**  
5927 Priestly Drive, Suite 110  
Carlsbad, CA 92008

*Prepared by:*

**HELIX Environmental Planning, Inc.**  
7578 El Cajon Boulevard  
La Mesa, CA 91942

# Camino Largo Residential Project

## Air Quality, Greenhouse Gas Emissions, and Energy Technical Report

*Submitted to:*

**City of Vista**  
**Community Development Department**  
200 Civic Center Drive  
Vista, CA 92084-6275

*Prepared for:*

**California West Communities**  
5927 Priestly Drive, Suite 110  
Carlsbad, CA 92008

*Prepared by:*

**HELIX Environmental Planning, Inc.**  
7578 El Cajon Boulevard  
La Mesa, CA 91942

December 2021 | 02951.00013.001

# TABLE OF CONTENTS

---

<b><u>Section</u></b>	<b><u>Page</u></b>
EXECUTIVE SUMMARY .....	ES-1
1.0 INTRODUCTION.....	1
1.1 Purpose of the Report.....	1
1.2 Project Location .....	1
1.3 Project Description .....	1
1.4 Construction Activities and Phasing .....	1
1.4.1 Construction Best Management Practices .....	2
2.0 AIR QUALITY.....	3
2.1 Air Quality Regulatory Setting .....	3
2.1.1 Air Pollutant Descriptors and Terminology .....	3
2.1.2 Federal Regulations .....	5
2.1.3 State Regulations .....	8
2.1.4 Local Regulations .....	9
2.1.5 SDAPCD Attainment Plan.....	9
2.1.6 San Diego Air Pollution Control District Rules and Regulations .....	9
2.2 Air Quality Existing Conditions.....	10
2.2.1 Climate/Meteorology .....	11
2.2.2 Existing Air Quality.....	11
2.2.3 Sensitive Receptors.....	12
2.3 Air Quality Methodology .....	12
2.3.1 Construction Emissions.....	13
2.3.2 Operational Emissions .....	16
2.4 Air Quality Significance Criteria .....	16
2.5 Air Quality Impact Analysis .....	17
2.5.1 Issue 1: Consistency with the Regional Air Quality Plan.....	17
2.5.2 Issue 2: Cumulatively Considerable Net Increase of Nonattainment Criteria Pollutants.....	19
2.5.3 Issue 3: Impacts to Sensitive Receptors.....	20
2.5.4 Issue 4: Odors .....	23
3.0 GREENHOUSE GAS EMISSIONS .....	24
3.1 GHG Setting.....	24
3.1.1 Climate Change Overview.....	24
3.1.2 Greenhouse Gases .....	24
3.2 GHG Regulatory framework.....	26
3.2.1 Federal GHG Regulations .....	26
3.2.2 California GHG Regulations.....	27
3.2.3 Regional GHG Policies and Plans .....	31
3.2.4 Local Greenhouse Gas Plans .....	32



# TABLE OF CONTENTS (cont.)

---

<b><u>Section</u></b>	<b><u>Page</u></b>
3.3	GHG Existing Conditions ..... 32
3.3.1	Worldwide and National GHG Inventory ..... 32
3.3.2	State GHG Inventories ..... 33
3.3.3	Regional GHG Inventory ..... 33
3.4	GHG Methodology ..... 34
3.4.1	Construction GHG Emissions ..... 34
3.4.2	Operational GHG Emissions ..... 35
3.5	GHG Significance Criteria ..... 36
3.6	GHG Impact Analysis ..... 38
3.6.1	Issue 1: Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. .... 38
3.6.2	Issue 2: Conflict with an applicable GHG reduction plan, policy, or regulation ..... 38
4.0	ENERGY ..... 39
4.1	Energy Regulatory Framework ..... 39
4.1.1	Federal Energy Regulations ..... 39
4.1.2	California Energy Regulations ..... 40
4.2	Energy Existing Conditions ..... 41
4.2.1	State Energy Supply ..... 41
4.3	Energy Methodology ..... 41
4.4	Energy Significance Criteria ..... 41
4.5	Energy Impact Analysis ..... 42
4.5.1	Issue 1: Result in the wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation. .... 42
4.5.2	Issue 2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency. .... 43
5.0	LIST OF PREPARERS ..... 43
6.0	REFERENCES ..... 44

# TABLE OF CONTENTS (cont.)

---

## LIST OF APPENDICES

- A CalEEMod Output
- B Energy Calculation Sheets

## LIST OF FIGURES

<b><u>No.</u></b>	<b><u>Title</u></b>	<b><u>Follows Page</u></b>
1	Regional Location.....	2
2	Project Vicinity.....	2
3	Site Plan.....	2

## LIST OF TABLES

<b><u>No.</u></b>	<b><u>Title</u></b>	<b><u>Page</u></b>
1	Summary of Common Sources and Human Health Effects of Criteria Air Pollutants.....	4
2	Ambient Air Quality Standards.....	6
3	San Diego Air Basin Attainment Status.....	7
4	Air Quality Monitoring Data.....	12
5	Anticipated Construction Schedule.....	14
6	Construction Equipment Assumptions.....	15
7	Screening-Level Thresholds for Air Quality Impact Analysis.....	17
8	Unmitigated Maximum Daily Construction Emissions.....	19
9	Operational Emissions.....	20
10	Global Warming Potentials and Atmospheric Lifetimes.....	26
11	California Greenhouse Gas Emissions by Sector.....	33
12	San Diego County GHG Emissions by Sector.....	34
13	Operational GHG Emissions.....	38
14	Construction Energy Use.....	42
15	Operational Energy Use.....	43

## ACRONYMS AND ABBREVIATIONS

---

AAM	Annual Arithmetic Mean
AB	Assembly Bill
ACM	asbestos containing material
amsl	above mean sea level
ANFO	ammonium nitrate/fuel oil
APN	Assessor's Parcel Number
Btu	British thermal unit
C <sub>2</sub> F <sub>6</sub>	hexafluoroethane
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CF <sub>4</sub>	tetrafluoromethane
CFC	chlorofluorocarbon
CH <sub>4</sub>	methane
City	City of Vista
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
DPM	diesel particulate matter
EMFAC	Mobile Source Emissions Inventory
EO	Executive Order
GHG	greenhouse gas
GWP	global warming potential
HFC	hydrofluorocarbon
HR	House of Representatives

## ACRONYMS AND ABBREVIATIONS (cont.)

---

IPCC	Intergovernmental Panel on Climate Change
kV	kilovolt
kW	kilowatt
kWhr	kilowatt-hour
LBP	lead-based paint
LCFS	Low Carbon Fuel Standard
LOS	Level of Service
LST	localized significance threshold
mg/m <sup>3</sup>	milligrams per cubic meter
MMBtu	million British thermal units
MMT	million metric tons
mpg	miles per gallon
mph	miles per hour
MPOs	Metropolitan Planning Organizations
MT	metric tons
MW	megawatt
MWh	megawatt hour
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NASA	National Aeronautics and Space Administration
NHTSA	National Highway Traffic Safety Administration
NO	nitrogen monoxide
NO <sub>2</sub>	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NO <sub>x</sub>	nitrogen oxides
O <sub>3</sub>	ozone
O&M	operations and maintenance
OEHHA	Office of Environmental Health Hazard Assessment
Pb	lead
PFC	perfluorocarbon
PM <sub>10</sub>	particulate matter less than 10 microns
PM <sub>2.5</sub>	particulate matter less than 2.5 microns
ppm	parts per million
PV	photovoltaic
ROG	reactive organic gas
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan

## ACRONYMS AND ABBREVIATIONS (cont.)

---

SANDAG	San Diego Association of Governments
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SF <sub>6</sub>	hexafluoride
SIP	State Implementation Plan
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
TAC	toxic air contaminant
UNFCCC	United Nations Framework Convention on Climate Change
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geologic Survey
VMT	vehicle miles traveled
VOC	volatile organic compound
WRCC	Western Regional Climate Center

## EXECUTIVE SUMMARY

This report presents an assessment of potential air quality, greenhouse gas (GHG), and energy impacts associated with the proposed Camino Largo Residential Project (project) located in the City of Vista (City), California. The report evaluates the potential for criteria air pollutant emissions, GHG emissions, and energy use impacts during the construction and operation of the project.

The proposed project involves removal of an existing nursery operation and the construction of 46 two-story detached residential units. Although the project requires a General Plan Amendment, the buildout of the project would not conflict with the San Diego Air Pollution Control District's (SDAPCD's) 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County. Criteria pollutant and precursor pollutant emissions generated during project construction activities would not exceed the SDAPCD thresholds. Long-term operational emissions of criteria pollutants and precursors would not exceed the SDAPCD thresholds, and the impacts would be less than significant.

Construction and operation of the project would not expose sensitive receptors to substantial concentrations of toxic air contaminants (TACs), including diesel particulate matter (DPM) emissions from the use of construction equipment. The project's contribution to area traffic would not result in carbon monoxide (CO) hotspots. Impacts related to exposure of sensitive receptors to substantial pollutant concentrations would be less than significant.

Neither construction activities nor long-term operation of the project would be a source of objectionable odors that would adversely affect a significant number of persons, and odor impacts would be less than significant.

Implementation of the project would result in GHG emissions of 749.7 metric tons (MT) of carbon dioxide equivalents (CO<sub>2</sub>e) per year, including amortized construction and operational GHG emissions. The project's GHG emissions would be below the adjusted threshold of 966 MT CO<sub>2</sub>e (the City project level screening threshold, adjusted for the Senate Bill (SB) 32 GHG reduction mandates for the year 2024), and the GHG emissions impact would be less than significant. The project would not conflict with or obstruct implementation of GHG reduction plans, including the City's Climate Action Plan (CAP) and the California Air Resource Board's Climate Change Scoping Plan.

The project would comply with all applicable requirements of California's 2019 Title 24 Building Energy Efficiency Standards and California Green Building Standards (CALGreen), including the requirement for on-site solar electricity generation. The project would not result in wasteful or inefficient consumption of energy resources and the project would not conflict with a State or local plan for renewable energy or energy efficiency. Impacts related to energy use would be less than significant.

This page intentionally left blank

## 1.0 INTRODUCTION

### 1.1 PURPOSE OF THE REPORT

This report analyzes potential air quality, greenhouse gas (GHG) emissions, and energy usage impacts associated with the proposed Camino Largo Residential Project (project), which includes an evaluation of existing conditions in the project vicinity and an assessment of potential impacts associated with project construction and project operation. As appropriate, the analysis identifies measures that can be taken to avoid adverse air quality, GHG emissions, and energy usage impacts.

### 1.2 PROJECT LOCATION

The 9.3-acre project site (Assessor's Parcel Number [APN] 159-240-07) is located northeast of the intersection of North Santa Fe Avenue and Camino Largo in the City of Vista (City), south of the City's boundary with the County of San Diego. Guajome Adobe Park is located to the west and rural single-family residences and undeveloped land are to the south and east. See Figure 1, *Regional Location*, and Figure 2, *Project Vicinity*.

The existing site contains remnants of the former nursery, including hoop frames of the former greenhouses, palm trees in box planters, and piles of green waste. There is a structure that is associated with the former nursery operations located in the south-central portion of the site and trucks and machinery scattered throughout the site.

### 1.3 PROJECT DESCRIPTION

The proposed project involves the removal of the existing greenhouse and shed to construct 46 single-family residential units. The homes would range from 2,129 square feet to 2,374 square feet and extend to a height of no greater than 35 feet. Access would be provided by four private cul-de-sac drives that extend from Camino Largo. Resident parking would be provided via two-car garages and individual driveways with additional parking being provided along one side of each private drive. Two stormwater retention basins would be located onsite. One is located on the southwest corner of the site and another at the southeast edge of the site. See Figure 3, *Site Plan*. The project site's net density would be 46 units on 9.3 acres, which provides a gross density of 4.965 units per acre.

The project site has a General Plan land use designation of Rural Residential (RR) and would require a General Plan land use amendment to designate the site as Medium Low Density Residential (MDR) (10 dwelling units/acre). The project site would also require a zone change from Agricultural (A-1) to Residential (R-1-B 4,000-square foot lot).

### 1.4 CONSTRUCTION ACTIVITIES AND PHASING

The project would be constructed in one phase. Project construction activities would consist of demolition, site preparation, grading, installation underground utilities, internal street and parking area paving, building construction, and architectural coatings. Construction of the project would commence in April 2022 and be completed in approximately March 2023 for a total construction duration of approximately one year. A net export of approximately 44,130 cubic yards of soil and rock is anticipated during grading.



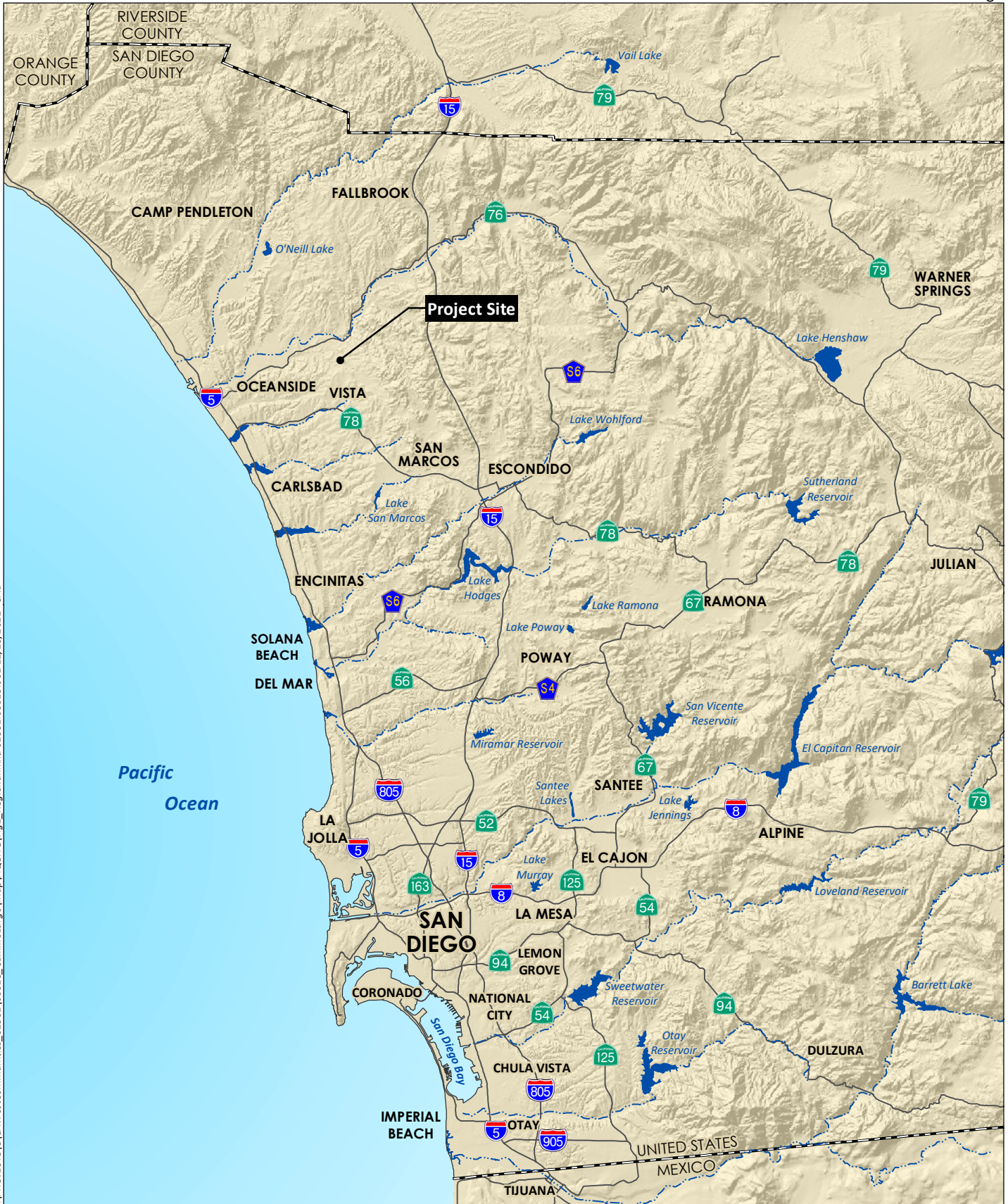
### 1.4.1 Construction Best Management Practices

The project would incorporate best management practices (BMPs) during construction to reduce emissions of fugitive dust. The San Diego Air Pollution Control District (SDAPCD) Rule 55 – Fugitive Dust Control states that no dust and/or dirt shall leave the property line. SDAPCD Rule 55 requires the following (SDAPCD 2009):

- (1) **Airborne Dust Beyond the Property Line:** No person shall engage in construction or demolition activity subject to this rule in a manner that discharges visible dust emissions into the atmosphere beyond the property line for a period or periods aggregating more than 3 minutes in any 60-minute period.
- (2) **Track-Out/Carry-Out:** Visible roadway dust as a result of active operations, spillage from transport trucks, erosion, or track-out/carry-out shall:
  - (i) be minimized by the use of any of the following or equally effective track-out/carry-out and erosion control measures that apply to the project or operation:
    - (a) track-out grates or gravel beds at each egress point;
    - (b) wheel-washing at each egress during muddy conditions, soil binders, chemical soil stabilizers, geotextiles, mulching, or seeding; and for outbound transport trucks;
    - (c) using secured tarps or cargo covering, watering, or treating of transported material; and
  - (ii) be removed at the conclusion of each workday when active operations cease, or every 24 hours for continuous operations. If a street sweeper is used to remove any track-out/carry-out, only PM<sub>10</sub>-efficient (particulate matter less than 10 microns) street sweepers certified to meet the most current South Coast Air Quality Management District (SCAQMD) Rule 1186 requirements shall be used. The use of blowers for removal of track-out/carry-out is prohibited under any circumstances.

The control measures listed below are the BMPs that the project would incorporate for dust control and are included in the modeling:

- A minimum of two applications of water shall be applied during grading between dozer/grader passes;
- Paving, chip sealing, or chemical stabilization of internal roadways shall be applied after completion of grading;
- Grading shall be terminated if winds exceed 25 miles per hour (mph);
- All exposed surfaces shall maintain a minimum soil moisture of 12 percent;
- Dirt storage piles shall be stabilized by chemical binders, tarps, fencing, or other erosion control; and
- Vehicle speeds shall be limited to 15 mph on unpaved roads.







Project Site



I:\PROJECTS\CAWestCommunities\_02951\00013\_Caminolargo\Map\AOGHG\Fig2\_Aerial.mxd 02951.00013.001\_12/14/2021 - SAB



Source: Aerial (NearMaps, 2019)



I:\PROJECTS\C\WestCommunities\_02951\00013\_CaminoLargo\Map\AQGH\G\Fig3\_SitePlan.mxd 02951.13.1 12/13/21\_SAB



Source: BHA, Inc. 2021

## 2.0 AIR QUALITY

### 2.1 AIR QUALITY REGULATORY SETTING

The project site is located within the San Diego Air Basin (SDAB). Air quality in the SDAB is regulated by the U.S. Environmental Protection Agency (USEPA) at the federal level, by the California Air Resources Board (CARB) at the state level, and by the SDAPCD at the regional level.

#### 2.1.1 Air Pollutant Descriptors and Terminology

##### 2.1.1.1 Criteria Air Pollutants

Criteria pollutants are defined by state and federal law as a risk to the health and welfare of the general public. In general, criteria air pollutants include the following compounds:

- Ozone (O<sub>3</sub>)
- Carbon monoxide (CO)
- Nitrogen dioxide (NO<sub>2</sub>)
- Particulate matter (PM), which is further subdivided:
  - Coarse PM, 10 microns or less in diameter (PM<sub>10</sub>)
  - Fine PM, 2.5 microns or less in diameter (PM<sub>2.5</sub>)
- Sulfur dioxide (SO<sub>2</sub>)
- Lead (Pb)

Criteria pollutants can be emitted directly from sources (primary pollutants; e.g., CO, SO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and lead), or they may be formed through chemical and photochemical reactions of precursor pollutants in the atmosphere (secondary pollutants; e.g., ozone, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>). PM<sub>10</sub> and PM<sub>2.5</sub> can be both primary and secondary pollutants. The principal precursor pollutants of concern are reactive organic gases ([ROGs] also known as volatile organic compounds [VOCs])<sup>1</sup> and nitrogen oxides (NO<sub>x</sub>).

The descriptions of sources and general health effects for each of the criteria air pollutants are shown in Table 1, *Summary of Common Sources and Human Health Effects of Criteria Air Pollutants*, based on information provided by the California Air Pollution Control Officers Association ([CAPCOA] 2021a). Specific adverse health effects on individuals or population groups induced by criteria pollutant emissions are highly dependent on a multitude of interconnected variables such as cumulative concentrations, local meteorology and atmospheric conditions, and the number and characteristics of exposed individuals (e.g., age, gender). Criteria pollutant precursors (ROG and NO<sub>x</sub>) affect air quality on a regional scale, typically after significant delay and distance from the pollutant source emissions. Health effects related to ozone and NO<sub>2</sub> are, therefore, the product of emissions generated by numerous sources throughout a region. Emissions of criteria pollutants from vehicles traveling to or from the project site (mobile emissions) are distributed nonuniformly in location and time throughout the region,

---

<sup>1</sup> CARB defines and uses the term ROGs while the USEPA defines and uses the term VOCs. The compounds included in the lists of ROGs and VOCs and the methods of calculation are slightly different. However, for the purposes of estimating criteria pollutant precursor emissions, the two terms are often used interchangeably.



wherever the vehicles may travel. As such, specific health effects from these criteria pollutant emissions cannot be meaningfully correlated to the incremental contribution from the project.

**Table 1**  
**SUMMARY OF COMMON SOURCES AND HUMAN HEALTH EFFECTS OF CRITERIA AIR POLLUTANTS**

<b>Pollutant</b>	<b>Major Man-Made Sources</b>	<b>Human Health Effects</b>
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO <sub>2</sub> )	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to climate change and nutrient overloading, which deteriorates water quality. Causes brown discoloration of the atmosphere.
Ozone (O <sub>3</sub> )	Formed by a chemical reaction between reactive organic gases (ROGs) and nitrogen oxides (NO <sub>x</sub> ) in the presence of sunlight. Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, gasoline storage and transport, solvents, paints, and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. Damages rubber, some textiles and dyes.
Particulate Matter (PM <sub>10</sub> and PM <sub>2.5</sub> )	Produced by power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles, and other sources.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Sulfur Dioxide (SO <sub>2</sub> )	A colorless, nonflammable gas formed when fuel containing sulfur is burned, when gasoline is extracted from oil, or when metal is extracted from ore. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid, which can damage marble, iron and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.
Lead	Metallic element emitted from metal refineries, smelters, battery manufacturers, iron and steel producers, use of leaded fuels by racing and aircraft industries.	Anemia, high blood pressure, brain and kidney damage, neurological disorders, cancer, lowered IQ. Affects animals, plants, and aquatic ecosystems.

Source: CAPCOA 2021a

### 2.1.1.2 Toxic Air Contaminants

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. TACs can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage, or short-term acute effects such as eye watering, respiratory irritation

(a cough), runny nose, throat pain, and headaches. TACs may be carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For carcinogenic TACs, there is no level of exposure that is considered safe, and impacts are evaluated in terms of overall relative risk expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

Diesel engines emit a complex mixture of air pollutants, including both gaseous and solid material. The solid material in diesel exhaust is referred to as diesel particulate matter (DPM). Almost all DPM is 10 microns or less in diameter, and 90 percent of DPM is less than 2.5 microns in diameter (CARB 2020a). Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung. In 1998, CARB identified DPM as a TAC based on published evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects. DPM has a notable effect on California's population—it is estimated that about 70 percent of total known cancer risk related to air toxics in California is attributable to DPM (CARB 2021a).

Asbestos is a mineral fiber that naturally occurs in some rock and soil. Long-term exposure to airborne asbestos fibers has been linked to major health effects including lung cancer; mesothelioma, a rare form of cancer that is found in the thin lining of the lung, chest, abdomen, and heart; and asbestosis, a serious progressive, long-term, non-cancer disease of the lungs (USEPA 2021a). Because of its fiber strength and heat resistance, asbestos has been used in a variety of building construction materials for insulation and as a fire retardant, primarily in buildings constructed before 1979. Asbestos fibers may be released into the air by the disturbance of asbestos containing material (ACM) during renovation and demolition activities; or during earth disturbing activities in areas where naturally occurring asbestos (NOA) is present in the rock or soil. NOA is not likely to be present in the soil and rock of San Diego County (California Department of Conservation 2000).

Lead is a naturally occurring metallic element that is found in small amounts in the earth's crust. In addition to its status as a criteria pollutant, lead is listed as a TAC because, depending on the level and duration of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems and the cardiovascular system. There is also a probable link between lead exposure and kidney cancer, brain cancer (gliomas), and lung cancer (USEPA 2021b). Lead particulate matter can be emitted during demolition and renovation activities that disturb materials that contains lead-based paint (LBP), most typically found in structures built before 1978.

## **2.1.2 Federal Regulations**

### **2.1.2.1 Clean Air Act**

Air quality is defined by ambient air concentrations of specific pollutants identified by the USEPA to be of concern with respect to the health and welfare of the general public. The USEPA is responsible for enforcing the Federal Clean Air Act (CAA) of 1970 and its 1977 and 1990 Amendments. The CAA required the USEPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. In response, the USEPA established both primary and secondary standards for several criteria pollutants, which are introduced above. Table 2, *Ambient Air Quality Standards*, shows the federal and state ambient air quality standards (AAQS) for these pollutants.

**Table 2**  
**AMBIENT AIR QUALITY STANDARDS**

Pollutant	Averaging Time	California Standards	Federal Standards	
			Primary <sup>1</sup>	Secondary <sup>2</sup>
O <sub>3</sub>	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	–	–
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )	0.070 ppm (137 µg/m <sup>3</sup> )	Same as Primary
PM <sub>10</sub>	24 Hour	50 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	Same as Primary
	AAM	20 µg/m <sup>3</sup>	–	Same as Primary
PM <sub>2.5</sub>	24 Hour	–	35 µg/m <sup>3</sup>	Same as Primary
	AAM	12 µg/m <sup>3</sup>	12.0 µg/m <sup>3</sup>	15.0 µg/m <sup>3</sup>
CO	1 Hour	20 ppm (23 mg/m <sup>3</sup> )	35 ppm (40 mg/m <sup>3</sup> )	–
	8 Hour	9.0 ppm (10 mg/m <sup>3</sup> )	9 ppm (10 mg/m <sup>3</sup> )	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m <sup>3</sup> )	–	–
NO <sub>2</sub>	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )	100 ppb (188 µg/m <sup>3</sup> )	–
	AAM	0.030 ppm (57 µg/m <sup>3</sup> )	0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary
SO <sub>2</sub>	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )	75 ppb (196 µg/m <sup>3</sup> )	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m <sup>3</sup> )
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )	–	–
Lead	30-day Avg.	1.5 µg/m <sup>3</sup>	–	–
	Calendar Quarter	–	1.5 µg/m <sup>3</sup>	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m <sup>3</sup>	
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	No Federal Standards	No Federal Standards
Sulfates	24 Hour	25 µg/m <sup>3</sup>	No Federal Standards	No Federal Standards
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	No Federal Standards	No Federal Standards



Pollutant	Averaging Time	California Standards	Federal Standards	
			Primary <sup>1</sup>	Secondary <sup>2</sup>
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	No Federal Standards	No Federal Standards

Source: CARB 2016

<sup>1</sup> National Primary Standards: The levels of air quality necessary, within an adequate margin of safety, to protect the public health.

<sup>2</sup> National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

O<sub>3</sub> = ozone; ppm = parts per million; µg/m<sup>3</sup> = micrograms per cubic meter; PM<sub>10</sub> = large particulate matter;

AAM = Annual Arithmetic Mean; PM<sub>2.5</sub> = fine particulate matter; CO = carbon monoxide; mg/m<sup>3</sup> = milligrams per cubic meter;

NO<sub>2</sub> = nitrogen dioxide; SO<sub>2</sub> = sulfur dioxide; km = kilometer; – = No Standard.

The CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. CARB has established the more stringent California Ambient Air Quality Standards (CAAQS) for the six criteria pollutants through the California Clean Air Act of 1988 (CCAA), and has established CAAQS for additional pollutants, including sulfates, hydrogen sulfide (H<sub>2</sub>S), vinyl chloride, and visibility-reducing particles. Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are “nonattainment areas” for that pollutant. Effective July 2, 2021, the San Diego Air Basin (SDAB) was classified as a Severe 15 nonattainment area for the 2015 8-hour NAAQS for ozone (USEPA 2021c). The SDAB is an attainment area for the NAAQS for all other criteria pollutants including PM<sub>10</sub> and PM<sub>2.5</sub>. The SDAB is currently classified as a nonattainment area under the CAAQS for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub> (SDAPCD 2021a). Table 3, *San Diego Air Basin Attainment Status*, lists the federal and state attainment status of the SDAPCD for criteria pollutants.

**Table 3**  
**SAN DIEGO AIR BASIN ATTAINMENT STATUS**

Pollutant	State of California Attainment Status	Federal Attainment Status
Ozone (1-hour)	(No federal standard)	Nonattainment
Ozone (8-hour)	Nonattainment	Nonattainment
Coarse Particulate Matter (PM <sub>10</sub> )	Unclassifiable <sup>1</sup>	Nonattainment
Fine Particulate Matter (PM <sub>2.5</sub> )	Attainment	Nonattainment
Carbon Monoxide (CO)	Attainment	Attainment
Nitrogen Dioxide (NO <sub>2</sub> )	Attainment	Attainment
Lead	Attainment	Attainment
Sulfur Dioxide (SO <sub>2</sub> )	Attainment	Attainment
Sulfates	Attainment	No Federal Standard
Hydrogen Sulfide	Unclassified	No Federal Standard
Visibility Reducing Particles	Unclassified	No Federal Standard

Source: SDAPCD 2021a

<sup>1</sup> At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.

### **2.1.3 State Regulations**

#### **2.1.3.1 California Clean Air Act**

CARB has established the more stringent California Ambient Air Quality Standards (CAAQS) for the seven criteria air pollutants listed above through the California Clean Air Act of 1988 (CCAA), and has also established CAAQS for additional pollutants, including sulfates, hydrogen sulfide (H<sub>2</sub>S), vinyl chloride and visibility-reducing particles (see Table 2). Areas that do not meet the CAAQS for a particular pollutant are considered to be “nonattainment areas” for that pollutant. The SDAB is currently classified as a nonattainment area under the CAAQS for ozone (1-hour and 8-hour), PM<sub>10</sub>, and PM<sub>2.5</sub> (SDAPCD 2020a). The current state attainment status for the SDAB is provided in Table 3, above.

CARB is the state regulatory agency with the authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. The SDAPCD is responsible for developing and implementing the rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, developing of air quality management plans, and adopting and enforcing air pollution regulations for San Diego County.

#### **2.1.3.2 State Implementation Plan**

The CAA requires areas with unhealthy levels of ozone, inhalable particulate matter, carbon monoxide, nitrogen dioxide, and sulfur dioxide to develop plans, known as State Implementation Plans (SIPs). SIPs are comprehensive plans that describe how an area will attain the NAAQS. The 1990 amendments to the CAA set deadlines for attainment based on the severity of an area’s air pollution problem.

SIPs are not single documents—they are a compilation of new and previously submitted plans, programs (e.g., monitoring, modeling, permitting), district rules, state regulations and federal controls. Many of California’s SIPs rely on a core set of control strategies, including emission standards for cars and heavy trucks, fuel regulations and limits on emissions from consumer products. State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB forwards the SIP revisions to the USEPA for approval and publication in the Federal Register. The Code of Federal Regulations (CFR) Title 40, Chapter I, Part 52, Subpart F, Section 52.220 lists the items that are included in the California SIP (CARB 2009). At any one time, several California submittals are pending USEPA approval.

#### **2.1.3.3 California Energy Code**

California Code of Regulations (CCR) Title 24 Part 6, California’s Energy Efficiency Standards for Residential and Nonresidential Buildings, were first established in 1978 in response to a legislative mandate to reduce California’s energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for space and water heating) results primarily in GHG emissions. The California Energy Code is discussed in further detail in Section 3, below.

#### **2.1.3.4 Toxic Air Contaminants**

The Health and Safety Code (§39655, subd. (a)) defines a TAC as “an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health.” A substance that is listed as a hazardous air pollutant pursuant to

subsection (b) of Section 112 of the CAA (42 United States Code Sec. 7412[b]) is a TAC. Under State law, the California Environmental Protection Agency (CalEPA), acting through CARB, is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health.

#### **2.1.4 Local Regulations**

#### **2.1.5 SDAPCD Attainment Plan**

The SDAPCD and San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for the attainment and maintenance of the AAQS in the SDAB. The regional air quality plan for San Diego County is SDAPCD's 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County (Attainment Plan; SDAPCD 2020b). The Attainment Plan, which would be a revision to the state implementation plan (SIP), outlines SDAPCD's plans and control measures designed to attain the national ambient air quality standard (NAAQS) for ozone. These plans accommodate emissions from all sources, including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the USEPA and CARB, and the emissions and reduction strategies related to mobile sources are considered in the Attainment Plan and SIP.

The Attainment Plan relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in San Diego County, to estimate future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. The CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the cities and by the County of San Diego. While SANDAG collaborates with the SDAPCD on the development of the portion of the SIP applicable to the SDAB, the SDAPCD is the lead agency. As such, the SDAPCD is responsible for projecting all future mobile source emissions (using CARB's mobile source emissions inventory EMFAC).

#### **2.1.6 San Diego Air Pollution Control District Rules and Regulations**

Future development pursuant to the project would be required to comply with SDAPCD Rules and Regulations which require the incorporation of BMPs during construction to reduce emissions of fugitive dust.

##### **2.1.6.1 Rule 50 (Visible Emissions)**

Particulate matter pollution impacts the environment by decreasing visibility (haze). These particles vary greatly in shape, size and chemical composition, and come from a variety of natural and manmade sources. Some haze-causing particles are directly emitted to the air such as windblown dust and soot. Others are formed in the air from the chemical transformation of gaseous pollutants (e.g., sulfates, nitrates, organic carbon particles) which are the major constituents of PM<sub>2.5</sub>. These fine particles, caused largely by combustion of fuel, can travel hundreds of miles causing visibility impairment.

Visibility reduction is probably the most apparent symptom of air pollution. Visibility degradation is caused by the absorption and scattering of light by particles and gases in the atmosphere before it reaches the observer. As the number of fine particles increases, more light is absorbed and scattered,

resulting in less clarity, color, and visual range. Light absorption by gases and particles is sometimes the cause of discolorations in the atmosphere but usually does not contribute very significantly to visibility degradation. Scattering by particulates impairs visibility much more readily. SDAPCD Rule 50 (Visible Emissions) sets emission limits based on the apparent density or opacity of the emissions using the Ringelmann scale (SDAPCD 1997).

### **2.1.6.2 Rule 51 (Nuisance)**

SDAPCD Rule 51 (Nuisance) states that 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 the rule do not apply to odors emanating from agricultural operations in the growing of crops or raising of fowls or animals (SDAPCD 1976).

### **2.1.6.3 Rule 55 (Fugitive Dust Control)**

SDAPCD Rule 55 (Fugitive Dust Control) requires action be taken to limit dust from construction and demolition activities from leaving the property line. Similar to Rule 50 (Visible Emissions), Rule 55 (Fugitive Dust Control) places limits on the amount of visible dust emissions in the atmosphere beyond the property line. It further stipulates that visible dust on roadways as a result of track-out/carry-out shall be minimized through implementation of control measures and removed at the conclusion of each workday using street sweepers (SDAPCD 2009).

### **2.1.6.4 Rule 67.0.1 (Architectural Coatings)**

Construction of development within the Specific Plan is required to comply with SDAPCD Rule 67.0.1 (Architectural Coatings) which requires residential interior/exterior flat coatings to be less than or equal to 50 grams per liter VOC content and interior/exterior non-flat coatings to be less than or equal to 100 grams per liter VOC content (SDAPCD 2015).

### **2.1.6.5 Rule 1206 (Asbestos Removal, Renovation, and Demolition)**

Demolition activities for the removal of existing structures on the project site would be required to comply with SDAPCD Rule 1206 (Asbestos Removal, Renovation, and Demolition) which requires a facility survey to determine the presence or absence of ACM, regardless of the age of the facility (SDAPCD 2017).

## **2.2 AIR QUALITY EXISTING CONDITIONS**

The project site is located in a generally suburban residential area 2.25 miles north of the City center. Topographically, there is an east-west trending ridge situated in the north central portion of the project site. Elevations on the project site range from 362 feet above mean sea level (amsl) at the top of the ridge to 296 amsl in the southwestern corner of the property adjacent to Camino Largo. The project currently contains 10,600 square feet of greenhouses and sheds. Land uses surrounding the project site include the existing single-family homes to the south and east of the project. To the north is a nursery and one home and one trailer. To the west across N. Santa Fe Avenue is farmland and the Guajome Adobe (see Figure 2).

## 2.2.1 Climate/Meteorology

The climate in southern California, including the SDAB, is controlled largely by the large-scale meteorological condition that dominates the west coast of the United States: a seasonally semi-permanent high-pressure cell centered over the northeastern Pacific Ocean, called the Pacific high, which keeps most storms from affecting the California coast. Areas within 30 miles of the coast in the San Diego region, including the project site, experience moderate temperatures and comfortable humidity.

Temperature inversion layers (inversions; layers of warmer air over colder air) affect air quality conditions significantly because they influence the mixing depth (i.e., the vertical depth in the atmosphere available for diluting air contaminants near the ground). The highest air pollutant concentrations in the SDAB generally occur during inversions. During the summer, air quality problems in the SDAB are created due to the interaction between the ocean surface and the lower layer of the atmosphere, creating a moist marine layer. An upper layer of warm air mass forms over the cool marine layer, preventing air pollutants from dispersing upward. Additionally, hydrocarbons (VOCs) and NO<sub>x</sub> react under the strong, abundant sunlight in the San Diego region, creating smog. Light, daytime winds, predominantly from the west, further aggravate the condition by driving the air pollutants inland, toward the foothills. During the fall and winter, air quality problems are created due to CO and NO<sub>x</sub> emissions. High NO<sub>x</sub> levels usually occur during autumn or winter, on days with summer-like conditions.

The predominant wind direction in the vicinity of the project site is from the southwest and the average wind speed is approximately six mph; Iowa Environmental Mesonet [IEM] 2021). The annual average maximum temperature in the project area is approximately 74 degrees Fahrenheit (°F), and the annual average minimum temperature is approximately 52°F. Total precipitation in the project area averages approximately 13 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer (Western Regional Climate Center [WRCC] 2021).

## 2.2.2 Existing Air Quality

The SDAPCD operates a network of ambient air monitoring stations throughout the San Diego region. The nearest air monitoring station closest to the project site is at Camp Pendleton/Oceanside, approximately 6 miles to the west. The closest air monitoring station with data for PM<sub>10</sub> and PM<sub>2.5</sub> is the San Diego-Kearny Villa Road monitoring station, approximately 28 miles south of the project site. The ambient pollutant concentrations collected at the stations during the last three available years (2018 through 2020) are shown in Table 4, *Air Quality Monitoring Data*. The data indicates exceedance of the state/federal 8-hour ozone standards on three days in 2020. No other air quality standards were determined to be exceeded from 2018 to 2020.

**Table 4**  
**AIR QUALITY MONITORING DATA**

Pollutant Standard	2018	2019	2020
<i>Ozone (O<sub>3</sub>) – Camp Pendleton Station</i>			
Maximum concentration 1-hour period (ppm)	0.084	0.075	0.094
Maximum concentration 8-hour period (ppm)	0.58	0.064	0.074
Days above 1-hour state standard (>0.09 ppm)	0	0	0
Days above 8-hour state/federal standard (>0.070 ppm)	0	0	3
<i>Coarse Particulate Matter (PM<sub>10</sub>) – San Diego-Kearney Villa Road Station</i>			
Maximum 24-hour concentration (µg/m <sup>3</sup> )	38.0	*	*
Measured Days above 24-hr state standard (>50 µg/m <sup>3</sup> )	0	*	*
Measured Days above 24-hr federal standard (>150 µg/m <sup>3</sup> )	0	*	*
Annual average (µg/m <sup>3</sup> )	18.4	*	*
Exceed state annual standard (20 µg/m <sup>3</sup> )	No	*	*
<i>Fine Particulate Matter (PM<sub>2.5</sub>) – San Diego-Kearney Villa Road Station</i>			
Maximum 24-hour concentration (µg/m <sup>3</sup> )	32.2	16.2	47.5
Measured Days above 24-hour federal standard (>35 µg/m <sup>3</sup> )	0	0	2
Annual average (µg/m <sup>3</sup> )	8.3	7.0	8.7
Exceed state and federal annual standard (12 µg/m <sup>3</sup> )	No	No	No
<i>Nitrogen Dioxide (NO<sub>2</sub>) – Camp Pendleton Station</i>			
Maximum 1-hour concentration (ppm)	0.048	0.053	0.058
Days above state 1-hour standard (0.18 ppm)	0	0	0
Days above federal 1-hour standard (0.100 ppm)	0	0	0
Annual average (ppm)	*	0.005	0.006
Exceed annual federal standard (0.053 ppm)	No	*	No
Exceed annual state standard (0.030 ppm)	No	*	No

Source: CARB 2021b

ppb = parts per billion; ppm = parts per million; µg/m<sup>3</sup> = micrograms per cubic meter, \* = insufficient data available.

### 2.2.3 Sensitive Receptors

CARB and the Office of Environmental Health Hazard Assessment (OEHHA) have identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, infants (including in utero in the third trimester of pregnancy), and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis (CARB 2005; OEHHA 2015). Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved and are referred to as sensitive receptors. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers.

The closest existing sensitive receptors to the project site are single-family homes located adjacent to the project site to the south, north, and west. The closest existing school is the Guajome Park Academy, located at 2000 N Santa Fe Avenue, approximately 966 feet (0.18 mile) southwest of the project site.

## 2.3 AIR QUALITY METHODOLOGY

Air emissions from mobile, area, and energy sources were calculated using CalEEMod, version 2020.4.0. CalEEMod is a computer model used to estimate air emissions resulting from land development projects

throughout the state of California. CalEEMod was developed by CAPCOA in collaboration with the California air quality management and pollution control districts, primarily the SCAQMD. The calculation methodology, source of emission factors used, and default data is described in the CalEEMod User's Guide, and Appendices A, D, and E (CAPCOA 2021b).

In brief, CalEEMod is a computer model that estimates criteria air pollutant and greenhouse gas emissions from mobile (i.e., vehicular) sources, area sources (fireplaces, woodstoves, and landscape maintenance equipment), energy use (electricity and natural gas used in space heating, ventilation, and cooling; lighting; and plug-in appliances), water use and wastewater generation, and solid waste disposal. Emissions are estimated based on land use information input to the model by the user.

In the first module, the user defines the specific land uses that will occur at the project site. The user also selects the appropriate land use setting (urban or rural), operational year, location, climate zone, and utility provider. The input land uses, size features, and population are used throughout CalEEMod in determining default parameters and calculations in each of the subsequent modules. The input land use information consists of land use subtypes (such as the residential subtypes of single-family residential and multi-family medium-rise residential) and their unit or square footage quantities.

Subsequent modules include construction (including off-road vehicle emissions), mobile (on-road vehicle emissions), area sources (architectural coatings [painting], consumer products [cleansers, aerosols, solvents]), water and wastewater, and solid waste. Each module comprises multiple components including an associated mitigation module to account for further reductions in the reported baseline calculations. Other inputs include trip generation rates, trip lengths, vehicle fleet mix (percentage autos, trucks, etc.), trip distribution (percent work to home, etc.), duration of construction phases, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters.

In various places the user can input additional information and/or override the default assumptions to account for project- or location-specific parameters. For this assessment, the default parameters were not changed unless otherwise noted. The CalEEMod output files are included in Appendix A to this report.

## **2.3.1 Construction Emissions**

### **2.3.1.1 Construction Activities**

Construction emissions were estimated based on the timeline provided by the project applicant, which assumes construction would begin in April 2022 and would be completed in March 2023, for a total construction period of approximately 12 months. The quantity, duration, and intensity of construction activity influence the amount of construction emissions and related pollutant concentrations that occur at any one time. As such, the emission forecasts provided herein reflect a specific set of conservative assumptions based on the expected construction scenario wherein a relatively large amount of construction activity is occurring in a relatively intensive manner. Because of this conservative assumption, actual emissions could be less than those forecasted. If construction is delayed or occurs over a longer time period, emissions could be reduced because of (1) a more modern and cleaner-burning construction equipment fleet mix than assumed in CalEEMod, and/or (2) a less intensive buildout schedule (i.e., fewer daily emissions occurring over a longer time interval).

Construction activities would include demolition, site preparation, grading, installation underground utilities, internal street and parking area paving, building construction, and architectural coatings.

Construction is assumed to occur five days per week with equipment operating up to eight hours per day. The construction schedule assumed in the modeling is shown in Table 5, *Anticipated Construction Schedule*.

**Table 5  
ANTICIPATED CONSTRUCTION SCHEDULE**

Construction Activity	Construction Period Start	Construction Period End	Construction Period Number of Working Days
Demolition	4/1/2022	4/14/2022	10
Site Preparation	4/1/2022	9/30/2022	131
Grading	5/1/2022	5/31/2022	22
Utilities	6/1/2022	7/31/2022	43
Paving	8/1/2022	8/14/2022	10
Building Construction	9/1/2022	2/28/2023	129
Architectural Coatings	3/1/2023	3/28/2023	20

Source: Camino Largo; CalEEMod

The modeling assumes that no VOC containing coatings will be used. This also complies with SDAPCD Rule 67, as described in Section 2.1.4, limiting the VOC content of architectural coatings to 50 g/L for flat coating and 100 g/L for non-flat coatings and pavement traffic marking. Interior paint was assumed to be flat coatings and exterior paint was assumed to be non-flat coatings. The modeling also assumes fugitive dust control in accordance with the SDAPCD Rule 55 and the BMPs, described in Section 1.4.1, specifically watering exposed areas twice per day, enforcing a 15-mph speed limit on unpaved surfaces, and maintaining a minimum moisture content of 12 percent for unpaved roads.

### **2.3.1.2 Construction Off-Road Equipment**

Construction would require the use of heavy off-road equipment. Construction equipment estimates are based on default values in CalEEMod, Version 2020.4.0 with additional equipment added for excavation for underground utilities, based on assumptions used for similar projects. Table 6, *Construction Equipment Assumptions*, presents a summary of the assumed equipment that would be involved in each stage of construction.



**Table 6  
CONSTRUCTION EQUIPMENT ASSUMPTIONS**

<b>Equipment</b>	<b>Horsepower</b>	<b>Number</b>	<b>Hours/Day</b>
<b><i>Demolition</i></b>			
Concrete/Industrial Saws	81	1	8
Excavators	158	3	8
Rubber Tired Dozers	247	2	8
<b><i>Site Preparation</i></b>			
Rubber Tired Dozers	247	3	8
Tractors/Loaders/Backhoes	97	4	8
<b><i>Grading</i></b>			
Excavators	158	1	8
Graders	187	1	8
Rubber Tired Dozers	247	1	8
Tractors/Loaders/Backhoes	97	3	8
<b><i>Underground Utilities</i></b>			
Excavators	158	1	8
Plate Compactors	8	1	4
Rough Terrain Forklifts	100	1	4
Rubber Tired Loaders	203	1	8
Trenchers	78	1	8
Tractors/Loaders/Backhoes	97	3	8
<b><i>Paving</i></b>			
Pavers	130	2	8
Paving Equipment	132	2	8
Rollers	80	2	8
<b><i>Building Construction</i></b>			
Cranes	231	1	8
Forklifts	89	3	8
Generator Sets	84	1	7
Tractors/Loaders/Backhoes	97	3	8
Welders	46	1	8
<b><i>Architectural Coating</i></b>			
Air Compressors	78	1	6

Source: CalEEMod

### 2.3.1.3 Construction On-Road Trips

Worker commute trips and vendor delivery trips were modeled based on CalEEMod defaults. Worker trips are anticipated to vary between 3 and 20 trips per day, depending on construction activity. Haul truck trips were based on the building area to be demolished, vegetation estimates from aerial images, and the grading plan cut/fill estimate. Approximately 48 total haul truck trips are anticipated during demolition, 5,516 total haul truck trips during grading. The CalEEMod default worker, vendor and haul trip distances were used in the model.

## **2.3.2 Operational Emissions**

### **2.3.2.1 Area Source Emissions**

Area sources include emissions from landscaping equipment, the use of consumer products, the reapplication of architectural coatings for maintenance, and hearths. Emissions associated with area sources were estimated using the CalEEMod default values with the exception of hearths—the project will not include wood burning stoves or fireplaces, or natural gas fireplaces.

### **2.3.2.2 Energy Emissions**

Development within the project would use electricity for lighting, heating and cooling. Natural gas and electricity will be supplied by San Diego Gas and Electric.

The gas-fired devices that may be utilized for the project include furnaces, hot water heaters, stoves, and ovens. As with all fossil fuel combustion, the substances emitted include greenhouse gases, criteria pollutants, and toxic substances.

Electricity generation typically entails the combustion of fossil fuels, including natural gas and coal, which is then transmitted to end users. A building's electricity use is thus associated with the off-site or indirect emission of GHGs at the source of electricity generation (power plant) and is included in the GHG analysis in Section 3, below.

### **2.3.2.3 Vehicular (Mobile) Sources**

Operational emissions from mobile source emissions are associated with vehicle trip generation and trip length. Based on the project trip generation rate from the Local Mobility Analysis, the project would generate 460 average daily trips (Linscott, Law & Greenspan, Engineers [LLG] 2021). The CalEEMod default trip distances and purposes were used in the modeling.

## **2.4 AIR QUALITY SIGNIFICANCE CRITERIA**

Thresholds used to evaluate potential air quality and odor impacts are based on applicable criteria in the State's California Environmental Quality Act (CEQA) Guidelines Appendix G. A significant air quality and/or odor impact could occur if the implementation of the proposed project would:

- Conflict with or obstruct implementation of the San Diego Attainment Plan or applicable portions of the SIP; or
- Result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is non-attainment under an applicable NAAQS or CAAQS; or
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors adversely affecting a substantial number of people).

To determine whether the project would result in a cumulatively considerable net increase of PM<sub>10</sub>, PM<sub>2.5</sub>, or the ozone precursors NO<sub>x</sub> and VOCs, emissions were evaluated based on the quantitative

emission thresholds established by the SDAPCD. As part of its air quality permitting process, the SDAPCD has established thresholds in Rule 20.2 for the preparation of Air Quality Impact Assessments (SDAPCD 2019).

For CEQA purposes, these screening criteria were used as numeric methods to determine if the project would result in a significant impact to air quality or an adverse effect on human health. The screening thresholds are shown in Table 7, *Screening-level Thresholds for Air Quality Impact Analysis*.

**Table 7  
SCREENING-LEVEL THRESHOLDS FOR AIR QUALITY IMPACT ANALYSIS**

Pollutant	Total Emissions		
<b>Construction Emissions (Pounds/Day)</b>			
Respirable Particulate Matter (PM <sub>10</sub> )	100		
Fine Particulate Matter (PM <sub>2.5</sub> )	67		
Oxides of Nitrogen (NO <sub>x</sub> )	250		
Oxides of Sulfur (SO <sub>x</sub> )	250		
Carbon Monoxide (CO)	550		
Volatile Organic Compounds (VOCs)	137		
<b>Operational Emissions</b>			
	<b>Pounds per Hour</b>	<b>Pounds per Day</b>	<b>Tons per Year</b>
Respirable Particulate Matter (PM <sub>10</sub> )	---	100	15
Fine Particulate Matter (PM <sub>2.5</sub> )	---	67	10
Oxides of Nitrogen (NO <sub>x</sub> )	25	250	40
Oxides of Sulfur (SO <sub>x</sub> )	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds	---	3.2	0.6
Volatile Organic Compounds (VOC)	---	137	15
<b>Toxic Air Contaminant Emissions</b>			
Excess Cancer Risk	1 in 1 million 10 in 1 million with T-BACT		
Non-Cancer Hazard	1.0		

Source: SDAPCD 2019

T-BACT = Toxics-Best Available Control Technology

SDAPCD Rule 51 (Nuisance) prohibits emissions from any source whatsoever in such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. It is generally accepted that the considerable number of persons requirement in Rule 51 is normally satisfied when 10 different individuals/households have made separate complaints within 90 days. Odor complaints from a “considerable” number of persons or businesses in the area would be a significant, adverse odor impact.

## 2.5 AIR QUALITY IMPACT ANALYSIS

### 2.5.1 Issue 1: Consistency with the Regional Air Quality Plan

The Attainment Plan outlines SDAPCD’s plans, and control measures designed to attain the NAAQS for ozone. In addition, the SDAPCD relies on the SIP, which includes the SDAPCD’s plans and control measures for attaining the ozone NAAQS. These plans accommodate emissions from all sources,

including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the CalEPA and CARB, and the emissions and reduction strategies related to mobile sources are considered in the Attainment Plan and SIP.

The Attainment Plan relies on information from CARB and SANDAG, including projected growth in the San Diego County, and mobile, area, and all other source emissions to project future emissions and determine from that the strategies necessary for the reduction of stationary source emissions through regulatory controls. CARB's mobile source emission projections and SANDAG's growth projections are based on population, employment and transportation trends, and land use plans developed by the local governments. Accordingly, projects that propose development that is consistent with the population and employment growth anticipated by these land use plans would be consistent with the Attainment Plan. If a project proposes development that results in growth greater than that anticipated in the adopted land use plans and SANDAG's growth projections upon which the Attainment Plan is based, the project may conflict with the Attainment Plan and SIP and could have a potentially significant impact on air quality. This situation would warrant further analysis to determine if the project and the surrounding projects would exceed the growth projections used in the Attainment Plan for the specific subregional area.

The project site is designated as R-R and would require a General Plan Amendment to MDR to accommodate the 46 single family residences. The City has recognized the potential for the project site to accommodate denser residential land uses as is demonstrated in the parcel-specific analysis of potential housing sites that the City prepared to identify underutilized sites designated for residential or mixed-use development to meet the Regional Housing Needs Allocation (RHNA) targets for the 2021-2029 planning period. This analysis, which is also included as Appendix B to the City's General Plan Housing Element Update, did not allocate a residential density to the site, but did identify the parcel as suitable for residential development (City 2021).

Specifically, the RHNA for the 2021-2029 planning period assigned Vista a new housing need of 2,561 units. As stated in the Housing Element Update, to address the current shortfall in capacity for potential housing development the City will process zoning amendments for sufficient sites with appropriate densities during 2022-2024 to fully accommodate the City's remaining housing need. Rezoned sites will be selected from the candidate sites as identified in the parcel specific analysis and will comply with the requirements of Government Code §65583.2(h) and (i), that outlines the stipulations for suitable housing sites.

By developing an underutilized site and helping the City meet its housing needs, the project would be consistent with the growth assumption used to develop the region's Attainment Plan. As such, residential growth in the City as a result of the project, and the related changes in regional emissions, are accounted for in the SIP, which is crafted to bring the basin into attainment for all criteria pollutants. Additionally, as detailed in Section 2.5.2, below, the project would not result in any construction or operational period emissions in exceedance of established thresholds. Therefore, the proposed project would not conflict with or obstruct implementation of the Attainment Plan and impacts would be less than significant.

## 2.5.2 Issue 2: Cumulatively Considerable Net Increase of Nonattainment Criteria Pollutants

The project would generate criteria pollutants in the short-term during construction and the long-term during operation. To determine whether a project would result in a cumulatively considerable net increase in criteria pollutant emissions that would violate an air quality standard or contribute substantially to an existing or projected air quality violation, a project’s emissions are evaluated based on the quantitative emission thresholds established by the SDAPCD (as shown in Table 7).

### 2.5.2.1 Construction Criteria Pollutant and Precursor Emissions

The project’s temporary construction emissions were estimated using CalEEMod as described in Section 2.3. The results of the modeling of the project’s construction emissions of criteria pollutants and ozone precursors are shown in Table 8, *Maximum Daily Construction Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the SDAPCD thresholds. The complete CalEEMod output is provided in Appendix A to this report.

**Table 8  
MAXIMUM DAILY CONSTRUCTION EMISSIONS**

Construction Phase	Pollutant Emissions (pounds per day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Demolition	2.6	25.7	20.6	<0.1	2.3	1.3
Site Preparation	3.2	33.1	19.7	<0.1	19.8	11.4
Grading	1.9	20.9	15.3	<0.1	8.2	4.3
Paving	1.1	11.1	14.6	<0.1	0.6	0.5
Utilities	1.4	14.1	15.4	<0.1	0.7	0.7
Building Construction - 2022	1.7	15.6	16.4	<0.1	0.8	0.8
Building Construction - 2023	1.6	14.4	16.2	<0.1	0.7	0.7
Architectural Coatings - 2023	0.2	1.3	1.8	<0.1	0.1	0.1
<b>Maximum Daily Emissions<sup>1</sup></b>	<b>6.4</b>	<b>94.7</b>	<b>46.2</b>	<b>0.2</b>	<b>33.2</b>	<b>17.4</b>
<i>SDAPCD Thresholds</i>	<i>137</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>67</i>
<b>Exceed Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod; USEPA AP-42 (output data is provided in Appendices A and B)

<sup>1</sup> CalEEMod automatically calculates the maximum daily emissions based on overlapping phases for each year. For this project, the maximum daily emissions would occur in 2022 during the demolition, site preparation, and some grading activities overlap.

VOC = volatile organic compound; NO<sub>x</sub> = nitrogen oxides; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides;

PM<sub>10</sub> = particulate matter 10 microns or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter;

SDAPCD = San Diego County Air Pollution Control District

As shown in Table 8, the project’s temporary construction-related criteria pollutant and precursor emissions would be below the SDAPCD’s significance thresholds. Therefore, the project’s construction activities would not result in a cumulatively considerable net increase of criteria pollutants that would violate any air quality standard or contribute substantially to an existing or projected air quality violation. Therefore, the project’s construction activities would not result in a cumulatively considerable net increase of criteria pollutants that would violate any air quality standard or contribute substantially to an existing or projected air quality violation, and the impact would be less than significant.

### 2.5.2.2 Operation Criteria Pollutant and Precursor Emissions

The project’s long-term maximum daily and annual operational emissions were estimated using CalEEMod as described in Section 2.3. The results of the modeling of the project’s operational emissions of criteria pollutants and precursors are shown in Table 9, *Operational Emissions*. The data are presented as the maximum anticipated daily emissions and annual emissions for comparison with the SDAPCD thresholds. The complete CalEEMod output is provided in Appendix A to this report.

**Table 9  
OPERATIONAL EMISSIONS**

Source	Pollutant Emissions					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Daily Emissions (pounds per day)<sup>2</sup></b>						
Area	1.9	<0.1	3.8	<0.1	<0.1	<0.1
Energy	<0.1	0.3	0.1	<0.1	<0.1	<0.1
Mobile	1.5	1.8	15.1	<0.1	3.6	1.0
<b>Total Project Emissions<sup>1</sup></b>	<b>3.4</b>	<b>2.2</b>	<b>19.0</b>	<b>&lt;0.1</b>	<b>3.7</b>	<b>1.0</b>
<i>SDAPCD Daily Thresholds</i>	<i>137</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>67</i>
<b>Exceed Daily Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Annual Emissions (tons per year)</b>						
Area	0.3	<0.1	0.3	<0.1	<0.1	<0.1
Energy	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mobile	0.3	0.3	2.7	<0.1	0.2	0.2
<b>Total Project Emissions<sup>1</sup></b>	<b>0.6</b>	<b>0.4</b>	<b>3.1</b>	<b>&lt;0.1</b>	<b>0.2</b>	<b>0.2</b>
<i>SDAPCD Annual Thresholds</i>	<i>15</i>	<i>40</i>	<i>100</i>	<i>40</i>	<i>15</i>	<i>10</i>
<b>Exceed Annual Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod (output data is provided in Appendix A)

<sup>1</sup> Totals may not sum due to rounding.

<sup>2</sup> Winter emissions are very slightly higher for most substances.

VOC = volatile organic compound; NO<sub>x</sub> = nitrogen oxides; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides;

PM<sub>10</sub> = particulate matter 10 microns or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter;

SDAPCD = San Diego County Air Pollution Control District

As shown in Table 9 the project’s long-term emissions of criteria pollutants and precursors would not exceed the SDAPCD daily or annual screening thresholds. Therefore, the project’s operational activities would not result in a cumulatively considerable net increase of criteria pollutants that would violate any air quality standard or contribute substantially to an existing or projected air quality violation, and the impact would be less than significant.

### 2.5.3 Issue 3: Impacts to Sensitive Receptors

Impacts to sensitive receptors are typically analyzed for operational period CO hotspots and exposure to TACs. An analysis of the project’s potential to expose sensitive receptors to these pollutants is provided below.

#### 2.5.3.1 Construction Diesel Particulate Matter Emissions

Implementation of the project would result in the use of heavy-duty construction equipment, haul trucks, on-site generators, and construction worker vehicles. These vehicles and equipment could

generate the TAC DPM. Generation of DPM from construction projects typically occurs in a localized area (e.g., at the project site) for a short period of time. Because construction activities and subsequent emissions vary depending on the phase of construction (e.g., grading, building construction), the construction-related emissions to which nearby receptors are exposed to would also vary throughout the construction period. During some equipment-intensive phases such as grading, construction-related emissions would be higher than other less equipment-intensive phases such as building construction. Concentrations of mobile-source DPM emissions are typically reduced by 70 percent at approximately 500 feet (CARB 2005).

The dose (of TAC) to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance in the environment and the extent of exposure a person has with the substance; a longer exposure period to a fixed amount of emissions would result in higher health risks. Current models and methodologies for conducting cancer health risk assessments are associated with longer-term exposure periods (typically 30 years for individual residents based on guidance from OEHHA) and are best suited for evaluation of long duration TAC emissions with predictable schedules and locations. These assessment models and methodologies do not correlate well with the temporary and highly variable nature of construction activities. Cancer potency factors are based on animal lifetime studies or worker studies where there is long-term exposure to the carcinogenic agent. There is considerable uncertainty in trying to evaluate the cancer risk from projects that will only last a small fraction of a lifetime (OEHHA 2015). Considering this information, the highly dispersive nature of DPM, and the fact that construction activities would occur at various locations throughout the project site, it is not anticipated that construction of the project would expose sensitive receptors to substantial DPM concentrations. Therefore, this impact would be less than significant.

### **2.5.3.2 Construction Asbestos and Lead-Based Paint Emissions**

Asbestos dust and lead are known carcinogens classified as TACs by CARB. Both may be found in buildings constructed prior to 1979 when lead was used in some paint and asbestos was used as a component of some building materials such as walls, ceilings, insulation, or fireproofing. Demolition of existing structures erected prior to 1979 could result in the disturbance of asbestos and lead building materials resulting in emissions.

Airborne asbestos is regulated in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos regulations. Federal and state regulations prohibit emissions of asbestos from demolition or construction activities. Following identification of friable asbestos, federal and state Occupational and Safety Health Administration (OSHA) regulations require that asbestos trained, and certified abatement personnel perform asbestos abatement and that all asbestos-containing materials removed from on-site structures be hauled to a licensed receiving facility and disposed of under proper manifest by a transportation company certified to handle asbestos. In accordance with the SDAPCD Rule 1206, *Asbestos Removal, Renovation, and Demolition*, prior to commencement of demolition operations and prior to submitting the notifications required by Section (e) of Rule 1206, a facility survey shall be performed to determine the presence or absence of asbestos containing materials, regardless of the age of the facility (SDAPCD 2017). USEPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in structures built before 1978 have their firm certified by USEPA (or an authorized state), use certified renovators who are trained by USEPA-approved training providers, and follow lead-safe work practices. These regulations specify precautions and safe work practices that must be followed to minimize the potential for release of asbestos fibers or lead dust and require notice to federal and/or local

government agencies prior to beginning demolition or renovation that could disturb asbestos containing materials. Therefore, compliance with established regulations would ensure that potential impacts associated with asbestos containing materials and lead-based paint during project demolition activities would be less than significant.

### **2.5.3.3 Localized Carbon Monoxide Hotspots**

A CO hotspot is an area of localized CO pollution caused by severe vehicle congestion on major roadways, typically near intersections. Vehicle exhaust is the primary source of CO. In an urban setting, the highest CO concentrations are generally found within close proximity to congested intersections. Under typical meteorological conditions, CO concentrations tend to decrease as distance from the emissions source (i.e., congested intersection) increase. Project-generated traffic has the potential of contributing to localized “hot spots” of CO off site. Because CO is a byproduct of incomplete combustion, exhaust emissions are worse when fossil-fueled vehicles are operated inefficiently, such as in stop-and-go traffic or through heavily congested intersections, where the level of service (LOS) is severely degraded.

The CARB also recommends evaluation of the potential for the formation of locally high concentrations of CO, known as CO hot spots. A CO hot spot is a localized concentration of CO that is above the state or national 1-hour or 8-hour CO ambient air standards. To verify that the project would not cause or contribute to a violation of the 1-hour and 8-hour CO standards, an evaluation of the potential for CO hot spots at nearby intersections was conducted.

The project’s Local Transportation Study (LLG 2021) evaluated whether there would be a change in the LOS at the intersections affected by the proposed Project. The potential for CO hot spots was evaluated based on the results of the transportation study. The Transportation Project-Level Carbon Monoxide Protocol (California Department of Transportation [Caltrans] 1998) was followed to determine whether a CO hot spot is likely to form due to project-generated traffic. In accordance with the Protocol, CO hot spots are typically evaluated when: (a) the LOS of an intersection decreases to an LOS E or worse; (b) signalization and/or channelization is added to an intersection; and (c) sensitive receptors such as residences, schools, hospitals, etc., are located in the vicinity of the affected intersection or roadway segment.

According to the transportation study, three intersections would operate at LOS E or F in the horizon year and experience an increase in delay from the Project:

- N Santa Fe Ave & Osborne Street – LOS E (AM)
- N Santa Fe Ave & Taylor Street – LOS E (AM)
- N Santa Fe Ave & Bobier Drive – LOS E/F (AM/PM)

Therefore, consistent with the CO Protocol, these findings indicate that further screening is required. Although the SDAPCD does not, various air quality agencies in California have developed conservative screening methods. The screening methods of the Sacramento Metropolitan Air Quality Management District (SMAQMD) are used for this Project because ambient CO concentrations within the SMAQMD jurisdiction are higher than for the Project area, as measured by CARB, resulting in a more conservative analysis. The SMAQMD guidance states that a project will not result in a significant impact to local CO concentrations if it meets all of the below criteria:



- The affected intersection carries less than 31,600 vehicles per hour;
- The project does not contribute traffic to a tunnel, parking garage, bridge underpass, urban street canyon, below-grade roadway, or other location where horizontal or vertical mixing of air would be substantially limited; and
- The affected intersection, which includes a mix of vehicle types, is not anticipated to be substantially different from the County average, as identified by EMFAC or CalEEMod models (SMAQMD 2009).

The highest traffic volume at the affect intersections is estimated to be 4,510 vehicles at the intersection of North Santa Fe Avenue and East Bobier Drive during the AM peak hour (LLG 2021). The intersection is not located in a tunnel, urban canyon, or similar area that would limit the mixing of air, nor is the vehicle mix anticipated to be substantially different than the County average. There would be no potential for a CO hotspot or exceedance of State or federal CO ambient air quality standard because the maximum traffic volume would be substantially less than the 31,600 vehicles per hour screening level; because the congested intersection is located where mixing of air would not be limited; and because the vehicle mix would not be uncommon. The impact would be less than significant, and no mitigation measures are required.

#### **2.5.4 Issue 4: Odors**

As discussed above, the State of California Health and Safety Code Sections 41700 and 41705, and SDAPCD Rule 51, prohibit emissions from any source whatsoever in such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. Any unreasonable odor discernible at the property line of the project site will be considered a significant odor impact.

According to the SCAQMD *CEQA Air Quality Handbook*, land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations (SCAQMD 1993). The project, involving a residential development, would not include any of these uses nor are there any of these land uses in the project vicinity.

Emissions from construction equipment, such as diesel exhaust, and VOCs from architectural coatings and paving activities may generate odors; however, these odors would be temporary, intermittent, and not expected to affect a substantial number of people. Additionally, noxious odors would be confined to the immediate vicinity of construction equipment. By the time such emissions reach any sensitive receptor sites, they would be diluted to well below any level of air quality concern. Furthermore, short-term construction-related odors are expected to cease upon the drying or hardening of the odor-producing materials. Long-term operation of the project would not be a substantial source of objectionable odors. Therefore, the project would not create objectionable odors affecting a substantial number of people, and the impact would be less than significant.

## 3.0 GREENHOUSE GAS EMISSIONS

### 3.1 GHG SETTING

#### 3.1.1 Climate Change Overview

Global climate change refers to changes in average climatic conditions on Earth including temperature, wind patterns, precipitation, and storms. Global temperatures are moderated by atmospheric gases. These gases are commonly referred to as GHGs because they function like a greenhouse by letting sunlight in but preventing heat from escaping, thus warming the Earth's atmosphere.

GHGs are emitted by natural processes and human (anthropogenic) activities. Anthropogenic GHG emissions are primarily associated with: (1) the burning of fossil fuels during motorized transport, electricity generation, natural gas consumption, industrial activity, manufacturing, and other activities; (2) deforestation; (3) agricultural activity; and (4) solid waste decomposition.

The temperature record shows a decades-long trend of warming, with 2020 ranked as the warmest year on record with an increase of 1.84 degrees Fahrenheit compared to the 1951-1980 average (National Aeronautics and Space Administration [NASA] 2021). GHG emissions from human activities are the most significant driver of observed climate change since the mid-20<sup>th</sup> century (United Nations Intergovernmental Panel on Climate Change [IPCC] 2021). The IPCC constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. The statistical models show a "high confidence" that temperature increase caused by anthropogenic GHG emissions could be kept to less than two degrees Celsius relative to preindustrial levels if atmospheric concentrations are stabilized at about 450 parts per million (ppm) carbon dioxide equivalent (CO<sub>2</sub>e) by the year 2100 (IPCC 2021).

#### 3.1.2 Greenhouse Gases

The GHGs defined under California's Assembly Bill (AB) 32 include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>).

**Carbon Dioxide.** CO<sub>2</sub> is the most important and common anthropogenic GHG. CO<sub>2</sub> is an odorless, colorless GHG. Natural sources include the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungi; evaporation from oceans; and volcanic outgassing. Anthropogenic sources of CO<sub>2</sub> include burning fuels, such as coal, oil, natural gas, and wood. Data from ice cores indicate that CO<sub>2</sub> concentrations remained steady prior to the current period for approximately 10,000 years. The atmospheric CO<sub>2</sub> concentration in 2010 was 390 ppm, 39 percent above the concentration at the start of the Industrial Revolution (about 280 ppm in 1750). As of November 2021, the CO<sub>2</sub> concentration exceeded 415 ppm (National Oceanic and Atmospheric Administration [NOAA] 2021).

**Methane.** CH<sub>4</sub> is the main component of natural gas used in homes. A natural source of methane is from the decay of organic matter. Geological deposits known as natural gas fields contain methane, which is extracted for fuel. Other sources are from decay of organic material in landfills, fermentation of manure, and cattle digestion.

**Nitrous Oxide.** N<sub>2</sub>O is produced by both natural and human-related sources. N<sub>2</sub>O is emitted during agricultural and industrial activities, as well as during the combustion of fossil fuels and solid waste. Primary human-related sources of N<sub>2</sub>O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuel, adipic (fatty) acid production, and nitric acid production.

**Hydrofluorocarbons.** Fluorocarbons are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. Chlorofluorocarbons are nontoxic, nonflammable, insoluble, and chemically nonreactive in the troposphere (the level of air at Earth's surface). Chlorofluorocarbons were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. Because hydrofluorocarbons destroy stratospheric ozone, their production was stopped as required by the 1989 Montreal Protocol.

**Sulfur Hexafluoride.** SF<sub>6</sub> is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF<sub>6</sub> is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semi-conductor manufacturing, and as a tracer gas for leak detection.

GHGs have long atmospheric lifetimes that range from one year to several thousand years. Long atmospheric lifetimes allow for GHG emissions to disperse around the globe. Because GHG emissions vary widely in the power of their climatic effects, climate scientists have established a unit called global warming potential (GWP). The GWP of a gas is a measure of both potency and lifespan in the atmosphere as compared to CO<sub>2</sub>. For example, because methane and N<sub>2</sub>O are approximately 29 and 273 times more powerful than CO<sub>2</sub>, respectively, in their ability to trap heat in the atmosphere, they have GWPs of 29 and 771, respectively (CO<sub>2</sub> has a GWP of 1). CO<sub>2</sub>e is a quantity that enables all GHG emissions to be considered as a group despite their varying GWP. The GWP of each GHG is multiplied by the prevalence of that gas to produce CO<sub>2</sub>e.

Historically, GHG emission inventories have been calculated using the GWPs from the IPCC's Second Assessment Report (SAR). In 2007, IPCC updated the GWP values based on the latest science at the time in its Fourth Assessment Report (AR4). In 2021, IPCC again updated the GWP values based on the latest science in its Sixth Assessment Report (AR6) (IPCC 2021).

By applying the GWP ratios, project related CO<sub>2</sub>e emissions can be tabulated in metric tons per year. Typically, the GWP ratio corresponding to the warming potential of CO<sub>2</sub> over a 100-year period is used as a baseline. The atmospheric lifetime and GWP of selected GHGs are summarized in Table 10, *Global Warming Potentials and Atmospheric Lifetimes*.

**Table 10**  
**GLOBAL WARMING POTENTIALS AND ATMOSPHERIC LIFETIMES**

Greenhouse Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)
Carbon Dioxide (CO <sub>2</sub> )	50-200	1
Methane (CH <sub>4</sub> )	12	27.2-29.8
Nitrous Oxide (N <sub>2</sub> O)	109	273
HFC-32	5.4	771
HFC-324a	14	1,526
CFC-11	52	8,321
PFC-14	50,000	7,380
Sulfur Hexafluoride (SF <sub>6</sub> )	3,200	22,800

Source: IPCC 2021

HFC: hydrofluorocarbon; PFC: perfluorocarbon

## 3.2 GHG REGULATORY FRAMEWORK

All levels of government have some responsibility for the protection of air quality, and each level (federal, State, and regional/local) has specific responsibilities relating to air quality regulation. GHG emissions and the regulation of GHGs is a relatively new component of air quality management.

### 3.2.1 Federal GHG Regulations

#### 3.2.1.1 Federal Clean Air Act

The U.S. Supreme Court ruled on April 2, 2007, in *Massachusetts v. U.S. Environmental Protection Agency* that CO<sub>2</sub> is an air pollutant, as defined under the CAA, and that the USEPA has the authority to regulate emissions of GHGs. The USEPA announced that GHGs (including CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFC, PFC, and SF<sub>6</sub>) threaten the public health and welfare of the American people. This action was a prerequisite to finalizing the USEPA’s GHG emissions standards for light-duty vehicles, which were jointly proposed by the USEPA and the United States Department of Transportation’s National Highway Traffic Safety Administration (NHTSA). The standards were established on April 1, 2010 for 2012 through 2016 model year vehicles and on October 15, 2012 for 2017 through 2025 model year vehicles (USEPA and NHTSA 2012).

#### 3.2.1.2 Light-Duty Vehicle Greenhouse Gas Emissions Standards and Corporate Average Fuel Economy Standards

The USEPA and the NHTSA worked together on developing a national program of regulations to reduce GHG emissions and to improve fuel economy of light-duty vehicles. The USEPA established the first-ever national GHG emissions standards under the CAA, and the NHTSA established CAFE standards under the Energy Policy and Conservation Act. On April 1, 2010, the USEPA and NHTSA announced a joint Final Rulemaking that established standards for 2012 through 2016 model year vehicles. This was followed up on October 15, 2012, when the agencies issued a Final Rulemaking with standards for model years 2017 through 2025. On March 3, 2020, the agencies released the final Safer Affordable Fuel-Efficient Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks (SAFE Vehicles Rule). The purpose of the SAFE Vehicles Rule is “to correct the national automobile fuel economy and GHG emissions standards to give the American people greater access to safer, more affordable vehicles that are cleaner

for the environment.” The direct effect of the rule is to eliminate the standards that were put in place to gradually raise average fuel economy for passenger cars and light trucks under test conditions from 37 miles per gallon (mpg) in 2020 to 50 mpg in 2025. The new SAFE Vehicles Rule freezes the average fuel economy level standards indefinitely at the 2020 levels. The new SAFE Vehicles Rule also results in the withdraw of the waiver previously provided to California for that State’s GHG and zero emissions vehicle (ZEV) programs under Section 209 of the CAA (USEPA and NHTSA 2020). The combined USEPA GHG standards and NHTSA CAFE standards resolve previously conflicting requirements under both federal programs and the standards of the State of California and other states that have adopted the California standards. The SAFE Vehicles Rule Part I (SAFE-1), which withdraws the waiver, was published in September 2019 and Part II (SAFE-2), which finalizes the regulation, was published in April 2020. On April 26, 2021, the USEPA published the Notice of Reconsideration of Previous Withdrawal of a Waiver for California’s Advanced Clean Car Program. The purpose of this Notice of Reconsideration is to seek comment on a number of issues in the SAFE-1 action including:

- Whether it was proper for the USEPA to reconsider a previously issued CAA waiver;
- Whether USEPA’s actions to withdraw California’s waiver was appropriate;
- Whether the SAFE-1 interpretation of the CAA that enabled USEPA to withdraw California’s waiver was appropriate; and/or
- Whether the SAFE-1 interpretation of CAA Section 177 that could disallow other states’ ability to adopt California GHG emission standards was appropriate.

### **3.2.2 California GHG Regulations**

There are numerous State plans, policies, regulations, and laws related to GHG emissions and global climate change. Following is a discussion of some of these plans, policies, and regulations that (1) establish overall State policies and GHG emission reduction targets; (2) require State or local actions that result in direct or indirect GHG emission reductions for the proposed project; and (3) require CEQA analysis of GHG emissions.

#### **3.2.2.1 California Energy Code**

CCR Title 24 Part 6: California’s Energy Efficiency Standards for Residential and Nonresidential Buildings were first established in 1978 in response to a legislative mandate to reduce California’s energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for space and water heating) results in GHG emissions.

The Title 24 standards are updated approximately every three years to allow consideration and possible incorporation of new energy efficiency technologies and methods. The 2019 Title 24 standards went into effect on January 1, 2020. The 2019 update to the Building Energy Efficiency Standards focuses on several key areas to improve the energy efficiency of newly constructed buildings and additions and alterations to existing buildings. The most significant efficiency improvements to the residential standards are a requirement for onsite photovoltaic electricity generation (e.g., solar panels) for most new or modified residential building up to three stories high (California Energy Commission [CEC] 2019).

The standards are divided into three basic sets. First, there is a basic set of mandatory requirements that apply to all buildings. Second, there is a set of performance standards—the energy budgets—that vary by climate zone (of which there are 16 in California) and building type; thus, the standards are tailored to local conditions. Finally, the third set constitutes an alternative to the performance standards, which is a set of prescriptive packages that are basically a recipe or a checklist compliance approach.

### **3.2.2.2 California Green Building Standards Code**

The California Green Building Standards Code (CALGreen; CCR Title 24, Part 11) is a code with mandatory requirements for all nonresidential buildings (including industrial buildings) and residential buildings for which no other state agency has authority to adopt green building standards. The current 2019 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings went into effect on January 1, 2020 (California Building Standards Commission [CBSC] 2019).

The development of CALGreen is intended to (1) cause a reduction in GHG emissions from buildings; (2) promote environmentally responsible, cost-effective, healthier places to live and work; (3) reduce energy and water consumption; and (4) respond to the directives by the Governor. In short, the code is established to reduce construction waste; make buildings more efficient in the use of materials and energy; and reduce environmental impact during and after construction.

CALGreen contains requirements for storm water control during construction; construction waste reduction; indoor water use reduction; material selection; natural resource conservation; site irrigation conservation; and more. The code provides for design options allowing the designer to determine how best to achieve compliance for a given site or building condition. The code also requires building commissioning, which is a process for the verification that all building systems, like heating and cooling equipment and lighting systems, are functioning at their maximum efficiency.

### **3.2.2.3 Executive Order S-3-05**

On June 1, 2005, Executive Order (EO) S-3-05 proclaimed that California is vulnerable to climate change impacts. It declared that increased temperatures could reduce snowpack in the Sierra Nevada, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To avoid or reduce climate change impacts, EO S-3-05 calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

### **3.2.2.4 Assembly Bill 32 – Global Warming Solution Act of 2006**

The California Global Warming Solutions Act of 2006, widely known as AB 32, requires that the CARB develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB is directed to set a GHG emission limit, based on 1990 levels, to be achieved by 2020. The bill requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG emission reductions.

### **3.2.2.5 Senate Bill 375**

Senate Bill (SB) 375, the Sustainable Communities and Climate Protection Act of 2008, supports the State's climate action goals to reduce GHG emissions through coordinated transportation and land use planning with the goal of more sustainable communities.

Under the Sustainable Communities Act, CARB sets regional targets for GHG emissions reductions from passenger vehicle use. In 2010, CARB established these targets for 2020 and 2035 for each region covered by one of the State’s metropolitan planning organizations (MPOs). CARB periodically reviews and updates the targets, as needed.

Each of California’s MPOs must prepare a Sustainable Communities Strategy (SCS) as an integral part of its regional transportation plan (RTP). The SCS contains land use, housing, and transportation strategies that, if implemented, would allow the region to meet its GHG emission reduction targets. Once adopted by the MPO, the RTP/SCS guides the transportation policies and investments for the region. CARB must review the adopted SCS to confirm and accept the MPO’s determination that the SCS, if implemented, would meet the regional GHG targets. If the combination of measures in the SCS would not meet the regional targets, the MPO must prepare a separate alternative planning strategy (APS) to meet the targets. The APS is not a part of the RTP. Qualified projects consistent with an approved SCS or Alternative Planning Strategy categorized as “transit priority projects” would receive incentives to streamline CEQA processing.

The SANDAG is San Diego’s local MPO and has responded to the requirements of SB 375 with the preparation of a regional transportation plan/sustainable communities strategy. *San Diego Forward: The Regional Plan* (SANDAG 2015) is discussed in greater detail in Section 3.2.3, below.

#### **3.2.2.6 Senate Bill 743**

On September 27, 2013, California Governor Jerry Brown signed SB 743 into law and started a process that changes transportation impact analysis as part of CEQA compliance. These changes include the elimination of auto delay, LOS, and other similar measures of vehicular capacity or traffic congestion as a basis for determining significant impacts for land use projects and plans in California. Further, parking impacts will not be considered significant impacts on the environment for select development projects within infill areas with nearby frequent transit service. According to the legislative intent contained in SB 743, these changes to current practice were necessary to balance the needs of congestion management more appropriately with statewide goals related to infill development, promotion of public health through active transportation, and reduction of GHG emissions.

#### **3.2.2.7 Senate Bill 97**

SB 97 required the Governor’s Office of Planning and Research to develop recommended amendments to the State CEQA Guidelines for addressing GHG emissions, including the effects associated with transportation and energy consumption. The amendments became effective on March 18, 2010.

#### **3.2.2.8 Executive Order B-30-15**

On April 29, 2015, EO B-30-15 established a California GHG emission reduction target of 40 percent below 1990 levels by 2030. The EO aligns California’s GHG emission reduction targets with those of leading international governments, including the 28 nation European Union. California is on track to meet or exceed the target of reducing GHG emissions to 1990 levels by 2020, as established in AB 32. California’s new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the goal established by EO S-3-05 of reducing emissions 80 percent under 1990 levels by 2050.

### **3.2.2.9 Senate Bill 32 and Assembly Bill 197**

As a follow-up to AB 32 and in response to EO-B-30-15, SB 32 was passed by the California legislature in August 2016 to codify the EO's California GHG emission reduction target of 40 percent below 1990 levels by 2030 and requires the State to invest in the communities most affected by climate change. AB 197 establishes a legislative committee on climate change policies to help continue the State's activities to reduce GHG emissions.

### **3.2.2.10 Assembly Bill 1493 – Vehicular Emissions of Greenhouse Gases**

AB 1493 (Pavley) requires that CARB develop and adopt regulations that achieve “the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty truck and other vehicles determined by CARB to be vehicles whose primary use is noncommercial personal transportation in the State.” On September 24, 2009, CARB adopted amendments to the Pavley regulations that intend to reduce GHG emissions in new passenger vehicles from 2009 through 2016. The amendments bind California's enforcement of AB 1493 (starting in 2009), while providing vehicle manufacturers with new compliance flexibility. The amendments also prepare California to merge its rules with the federal CAFE rules for passenger vehicles (CARB 2021d). In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single packet of standards called Advanced Clean Cars (CARB 2021d).

### **3.2.2.11 Assembly Bill 341**

The State legislature enacted AB 341 (California Public Resource Code Section 42649.2), increasing the solid waste diversion target to 75 percent statewide. AB 341 requires all businesses and public entities that generate 4 cubic yards or more of waste per week to have a recycling program in place. The final regulation was approved by the Office of Administrative Law on May 7, 2012 and went into effect on July 1, 2012.

### **3.2.2.12 Executive Order S-01-07 – Low Carbon Fuel Standard**

This EO, signed by Governor Schwarzenegger on January 18, 2007, directs that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by the year 2020. It orders that a Low Carbon Fuel Standard (LCFS) for transportation fuels be established for California and directs CARB to determine whether a LCFS can be adopted as a discrete early action measure pursuant to AB 32. CARB approved the LCFS as a discrete early action item with a regulation adopted and implemented in April 2010. Although challenged in 2011, the Ninth Circuit reversed the District Court's opinion and rejected arguments that implementing LCFS violates the interstate commerce clause in September 2013. As a result, CARB continues to implement the LCFS statewide.

### **3.2.2.13 California Air Resources Board: Climate Change Scoping Plan**

On December 11, 2008, CARB adopted the Scoping Plan (CARB 2008) as directed by AB 32. The Scoping Plan proposes a set of actions designed to reduce overall GHG emissions in California to the levels required by AB 32. Measures applicable to development projects include those related to energy-efficiency building and appliance standards, the use of renewable sources for electricity generation, regional transportation targets, and green building strategy. Relative to transportation, the 2008 Scoping Plan includes nine measures or recommended actions related to reducing VMT and vehicle GHG



emissions through fuel and efficiency measures. These measures would be implemented statewide rather than on a project-by-project basis.

In response to EO B-30-15 and SB 32, all state agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the Scoping Plan to reflect the 2030 target (CARB 2014). The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue driving down emissions. In December 2017, CARB adopted the *2017 Climate Change Scoping Plan Update, the Strategy for Achieving California's 2030 Greenhouse Gas Target*, to reflect the 2030 target set by EO B-30-15 and codified by SB 32 (CARB 2017). Currently, CARB is gathering information to prepare an updated Scoping Plan for 2022, which will be designed to achieving carbon neutrality by 2045 (CARB 2021c).

### **3.2.3 Regional GHG Policies and Plans**

#### **3.2.3.1 San Diego Association of Government's Regional Plan**

*San Diego Forward: The Regional Plan* (Regional Plan; SANDAG 2015) is the long-range planning document developed to address the region's housing, economic, transportation, environmental, and overall quality-of-life needs. The purpose is to provide direction and guidance on future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout the region as stipulated under SB 375. The Regional Plan establishes a planning framework and implementation actions that increase the region's sustainability and encourage "smart growth while preserving natural resources and limiting urban sprawl." The Regional Plan encourages local jurisdictions including the County of San Diego to increase residential and employment concentrations in areas with the best existing and future transit connections, and to preserve important open spaces. The focus is on implementation of basic smart growth principles designed to strengthen the integration of land use and transportation. General urban form goals, policies, and objectives are summarized as follows:

- Mix compatible uses.
- Take advantage of compact building design.
- Create a range of housing opportunities and choices.
- Create walkable neighborhoods.
- Foster distinctive, attractive communities with a strong sense of place.
- Preserve open space, natural beauty, and critical environmental areas.
- Strengthen and direct development towards existing communities.
- Provide a variety of transportation choices.
- Make development decisions predictable, fair, and cost-effective.
- Encourage community and stakeholder collaboration in development decisions.

The Regional Plan also addresses border issues, providing an important guideline for communities that have borders with Mexico. In this case, the goal is to create a regional community where San Diego, its neighboring counties, tribal governments, and northern Baja California mutually benefit from San Diego's varied resources and international location.

### **3.2.4 Local Greenhouse Gas Plans**

#### **3.2.4.1 City of Vista Climate Action Plan**

The City of Vista (City) has developed the Climate Action Plan (CAP) to address the issues of climate change as it relates to growth in the City, and to protect the environment for visitors and residents alike (City 2012). The CAP was adopted in December of 2013. The intent of the plan is to reduce traffic congestion and solid waste generation, improve air quality, increase safety for pedestrians and cyclists, and encourage more efficient use of energy and water. Additionally, this CAP requires meaningful GHG reductions, in accordance with the guidelines of AB 32, the Governor’s EO S-3-05, and CEQA guidelines, which will help improve the quality of life in the City. The implementation of the CAP will also help lead agencies to assess cumulative impacts of a project and provide a means for future projects to address GHG impacts under CEQA. A lead agency may conclude that a project’s GHG impact is not cumulatively significant if the project demonstrates consistency with the City’s CAP (CEQA Guidelines Section 15183.5[h][3]), thereby reducing overall project costs.

Through the CAP, the City has established goals and policies that incorporate environmental responsibility into its daily management of residential, commercial and industrial growth, education, energy and water use, air quality, transportation, waste reduction, economic development and open space and natural habitats to further their commitment. The development of the CAP coincides with City’s General Plan Update. The CAP includes a community-wide emissions inventory calculated using the socioeconomic growth rates from the General Plan Update.

Various state policies have enacted programs that will also contribute to reduced GHG emissions in the City by the year 2020. Some of these policies include updated building codes for energy efficiency, the low carbon fuel standard, Pavley vehicle emissions standards and the Renewables Portfolio Standard for utility companies. By supporting the state in the implementation of these measures, the City will experience substantial GHG emissions reductions. In order to reach the 2020 reduction target, the City has included additional local reduction measures in the CAP which encourage energy efficiency and renewable energy in buildings, transit-oriented planning, water conservation and increase waste diversion.

#### **3.2.4.2 City of Vista Municipal Code**

The City Municipal Code, Chapter 13.17, Construction and Demolition Debris Recycling, requires all construction, demolition, and remolded projects within the City, with a total project value equal to or greater than \$75,000 to divert at least 50 percent of the total construction and demolition debris generated by the project via reuse or recycling (City 2011).

## **3.3 GHG EXISTING CONDITIONS**

### **3.3.1 Worldwide and National GHG Inventory**

In 2018, total GHG emissions worldwide were estimated at 48,900 million metric tons (MMT) of CO<sub>2</sub>e emissions (Climate Watch 2021). The U.S. contributed the second largest portion (12 percent) of global GHG emissions in 2018 with 5,790 MMT CO<sub>2</sub>e, of which 82 percent was CO<sub>2</sub> emission (Climate Watch 2021). On a national level, 91 percent of GHG emissions were associated with transportation and electricity generation (Climate Watch 2021).

### 3.3.2 State GHG Inventories

CARB performed statewide inventories for the years 1990 to 2019, as shown in Table 11, *California State Greenhouse Gas Emissions by Sector*. The inventory is divided into six broad sectors of economic activity: agriculture, commercial, electricity generation, industrial, residential, and transportation. Emissions are quantified in MMT CO<sub>2</sub>e.

As shown in Table 11, statewide GHG source emissions totaled 431 MMT CO<sub>2</sub>e in 1990, 471 MMT CO<sub>2</sub>e in 2000, 449 MMT CO<sub>2</sub>e in 2010, and 418 MMT CO<sub>2</sub>e in 2019. Transportation-related emissions consistently contribute the most GHG emissions, followed by electricity generation and industrial emissions.

**Table 11**  
**CALIFORNIA GREENHOUSE GAS EMISSIONS BY SECTOR**

Sector	1990 Emissions (MMT CO <sub>2</sub> e)	2000 Emissions (MMT CO <sub>2</sub> e)	2010 Emissions (MMT CO <sub>2</sub> e)	2019 Emissions (MMT CO <sub>2</sub> e)
Agriculture and Forestry	18.9 (4%)	31.0 (7%)	33.7 (8%)	31.8 (8%)
Commercial	14.4 (3%)	14.1 (3%)	20.1 (4%)	24.2 (6%)
Electricity Generation	110.5 (26%)	105.4 (22%)	90.6 (20%)	59.0 (14%)
Industrial	105.3 (24%)	105.8 (22%)	101.8 (23%)	99.9 (24%)
Residential	29.7 (7%)	31.7 (7%)	32.1 (7%)	33.0 (8%)
Transportation	150.6 (35%)	183.2 (39%)	170.2 (38%)	170.3 (41%)
Unspecified Remaining	1.3 (<1%)	0.0 (0%)	0.0 (0%)	0.0 (0%)
<b>TOTAL</b>	<b>430.7</b>	<b>471.1</b>	<b>448.5</b>	<b>418.1</b>

Source: CARB 2007 and CARB 2021e  
MMT = million metric tons; CO<sub>2</sub>e = carbon dioxide equivalent

### 3.3.3 Regional GHG Inventory

A San Diego regional emissions inventory that was prepared for the San Diego County Climate Action Plan accounted for the unique characteristics of the region (San Diego County 2018). The 2014 emissions inventory for San Diego is presented in Table 12, *San Diego County GHG Emissions by Sector*. The sectors included in this inventory are somewhat different from those in the statewide inventory. Similar to the statewide emissions, transportation related GHG emissions contributed the most countywide, followed by emissions associated with energy use.

**Table 12**  
**SAN DIEGO COUNTY GHG EMISSIONS BY SECTOR**

Sector	2014 Emissions MMT CO <sub>2</sub> e (% total) <sup>1</sup>
On-Road Transportation	1.46 (45%)
Electricity	0.76 (24%)
Solid Waste	0.34 (11%)
Natural Gas Consumption	0.29 (9%)
Agriculture	0.16 (5%)
Water	0.13 (4%)
Off-Road Transportation	0.04 (1%)
Wastewater	0.02 (1%)
Propane	0.01 (<0.5%)
<b>TOTAL</b>	<b>3.21</b>

Source: San Diego County 2018 Climate Action Plan. 2014 emissions data

<sup>1</sup> Percentages may not total 100 due to rounding.

MMT = million metric tons; CO<sub>2</sub>e = carbon dioxide equivalent

A Climate Action Plan (CAP) was prepared for the City of Vista in 2012. The CAP includes the GHG emissions by sector for 2005 and the percent change from 2005 to 2020, as shown in Table 13, *City of Vista Emissions by Sector*.

**Table 13**  
**CITY OF VISTA GHG EMISSIONS BY SECTOR**

Sector	2005 Emissions MMT CO <sub>2</sub> e (% total) <sup>1</sup>	Percent change from 2005 to 2020
On-Road Transportation	0.31 (57%)	22%
Commercial Electricity and Natural Gas Consumption	0.11 (20%)	5%
Residential Electricity and Natural Gas Consumption	0.09 (16%)	2%
Solid Waste	0.03 (6%)	6%
Wastewater	0.01 (1%)	6%
<b>TOTAL</b>	<b>0.55</b>	14%

Source: City of Vista 2012 Climate Action Plan

<sup>1</sup> Percentages may not total 100 due to rounding.

MMT = million metric tons; CO<sub>2</sub>e = carbon dioxide equivalent

## 3.4 GHG METHODOLOGY

The project's GHG emissions were calculated using CalEEMod, as described in Section 2.3.

### 3.4.1 Construction GHG Emissions

Construction of the project would result in emissions of GHGs from the use of diesel-powered equipment, from worker vehicles traveling to and from the project site, and from trucks hauling material to and from the project site. The anticipated construction equipment and vehicle trips required for project construction are described in Section 2.3.

## 3.4.2 Operational GHG Emissions

### 3.4.2.1 Area Sources

This CalEEMod module estimates the GHG emissions that would occur from the use of hearths (e.g., wood or gas fireplaces and wood stoves), and landscaping equipment. This module also estimates emissions due to use of consumer products and architectural coatings that have volatile organic compounds (VOCs); however, these sources do not emit GHGs. The project will not include wood burning or natural gas fireplaces or woodstoves.

The use of landscape equipment emits GHGs associated with the equipment's fuel combustion. CalEEMod estimates the number and type of equipment needed based on the number of summer days given the project's location as entered in the project characteristics module. The model defaults for landscaping equipment were assumed.

### 3.4.2.2 Vehicular (Mobile) Sources

Operational emissions from mobile source emissions are associated with project-related vehicle trip generation and trip length. Based on the trip generation rate from the Local Transportation Study prepared for the project, the project would generate 460 average daily trips (LLG 2021). All CalEEMod default trip purposes and distances were used in the modeling.

### 3.4.2.3 Energy Sources

GHGs are emitted as a result of activities in buildings for which electricity and natural gas are used as energy sources. GHGs are generated during the generation of electricity from fossil fuels off-site in power plants. These emissions are considered indirect and are calculated in CalEEMod as associated with a building's operation.

CalEEMod default energy values are based on the CEC-sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey (RASS) studies, which identify energy use by building type and climate zone. Each land use type input to the land use module is mapped in the energy module to the appropriate CEUS and RASS building type.

Energy source emissions were estimated assuming implementation of energy-reducing project design features to comply with the 2019 Title 24 standards which include a requirement for new residential buildings with three or fewer residential floors to have on-site generation of electricity through photovoltaic (solar) panels. The project's residential buildings (46 dwelling units) total approximately 104,408 square feet of conditioned space and would require solar panels producing a minimum of 112.6 kilowatts (kW).<sup>2</sup> The annual electricity generated by a rooftop mounted solar power system varies by the climate, amount of sunlight available per day, the pitch and orientation of the roof, and the efficiency of the electrical transmission. Assuming a capacity factor (CF) of 20%, which accounts for climate, daylight hours, roof pitch and orientation, and transmission loss, the power produced by the

---

<sup>2</sup> Per the 2019 Title 24 residential building energy efficiency requirements, the minimum solar electrical generation required is calculated by  $kW = (CFA \times A)/1000 + (DU \times B)$ , where CFA is the conditioned floor area, A is 0.572 (climate zone 13 [Western San Diego County] adjustment factor), DU is the total number of dwelling units, and B is 1.15 (climate zone 13 dwelling unit factor).

project's solar panels would be approximately 197,313 kilowatt-hours (kWhr) per year.<sup>3</sup> The complete solar power requirement calculations are included with in Appendix B to this report.

#### **3.4.2.4 Solid Waste Sources**

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. CalEEMod determines the GHG emissions associated with disposal of solid waste into landfills. Portions of these emissions are biogenic. CalEEMod methods for quantifying GHG emissions from solid waste are based on the IPCC method using the degradable organic content of waste. A conservative 25 percent solid waste diversion rate was applied in CalEEMod to the new construction and redevelopment that would occur to account for mandatory compliance with AB 341.

#### **3.4.2.5 Water and Wastewater Sources**

The amount of water used, and wastewater generated, by a project has indirect GHG emissions associated with it. These emissions are a result of the energy used to supply, distribute, and treat the water and wastewater. In addition to the indirect GHG emissions associated with energy use, wastewater treatment can directly emit both methane and nitrous oxide.

CalEEMod uses default electricity intensity values for various phases of supplying and treating water from CEC's Refining Estimates of Water-Related Energy Use in California. The model estimates water/wastewater emissions by multiplying the total projected water/wastewater demand by the applicable water electricity intensities and by the utility intensity GHG factors.

The default CalEEMod water use assumptions were used for the GHG emissions estimates. For the project's water and wastewater GHG emissions, an overall 20 percent reduction in water use was applied in the CalEEMod mitigation section to account for recent requirements of CALGreen.

### **3.5 GHG SIGNIFICANCE CRITERIA**

Given the relatively small levels of emissions generated by a typical project in relationship to the total amount of GHG emissions generated on a national or global basis, individual development projects are not expected to result in significant, direct impacts with respect to climate change. However, considering the magnitude of the impact of GHG emissions on the global climate, GHG emissions from new development could result in significant, cumulative impacts with respect to climate change. Thus, the potential for a significant GHG impact is limited to cumulative impacts.

According to Appendix G of the CEQA Guidelines, a project would have a significant environmental impact if it would:

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

---

<sup>3</sup> Solar kWhr per year can be calculated by: kWhr/year = Power Output (kW) x 24 hours/day x 365 days/year x CF, where CF is a capacity factor which accounts for climate, daylight hours, roof pitch and orientation, and transmission loss. For typical California residential systems, the CF can range between 17% and 22.5%. A CF of 20% was used in the project calculations.

2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

The determination of significance is governed by CEQA Guidelines 15064.4, entitled “Determining the Significance of Impacts from Greenhouse Gas Emissions.” CEQA Guidelines 15064.4(a) states, “[t]he determination of the significance of greenhouse gas emissions calls for a careful judgment by the lead agency consistent with the provisions in section 15064. A lead agency should make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of greenhouse gas emissions resulting from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to ... [use a quantitative model or qualitative model]” (emphasis added). In turn, CEQA Guidelines 15064.4(b) clarifies that a lead agency should consider “Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.” Therefore, consistent with CEQA Guidelines 15064.4, the GHG analysis for the project appropriately relies upon a threshold based on the exercise of careful judgement and believed to be appropriate in the context of this particular project.

Following the methods described by the California Air Pollution Control Officers Association (CAPCOA) in their report entitled “CEQA & Climate Change,” dated January 2008, the City conducted a review of projects within the City to determine a 90 percent capture rate. As identified in the City’s *Interim Guidance Memorandum on Assessing GHG Emissions from Projects Subject to CEQA*, it was determined that a level of 1,185 MT CO<sub>2e</sub> would capture 90 percent of the City’s emissions that are attributable to development projects (City 2016). To determine whether the project is making a fair share contribution, and therefore substantial progress, towards meeting 2020 GHG emission targets set forth in the City’s CAP, the project’s emissions were evaluated based on this level. The City has determined that a fair share is provided if the project does not interfere with the State’s implementation of GHG reduction programs identified for residential and commercial development. Provided the project is consistent with applicable plans, policies, and regulations adopted for the purpose of reducing GHG emissions, it would not result in a significant impact.

The interim threshold was developed to meet the statewide GHG emissions reduction target of 40 percent below 1990 levels by 2020 and be on track to meet the 80 percent below 1990 levels by 2050 target in accordance with SB 32 and EO S-3-05. The City has not adopted guidance or revised thresholds to account for GHG reduction target beyond 2020. Therefore, this analysis compares the project’s emissions to a reduced threshold corresponding to the SB 32 reduction target of emissions 40 percent below 1990 levels by 2030. Accordingly, a threshold reduced by 4.98 percent for each year between 2020 and 2030 would meet the mandates of SB 32. The first full year of operation for the project is anticipated to be 2024. Therefore, a threshold 18.5 percent below the City threshold of 1,185 MT CO<sub>2e</sub> per service population per year, or 966 MT, is used in this analysis.

Neither the SDAPCD nor the City have adopted thresholds for determining the significance of a project’s temporary construction GHG emissions. To be conservative in accounting for all the project’s GHG emissions, the construction period emissions were amortized (i.e., averaged) over the anticipated 30-year lifespan of the project buildings and added to the project’s operational emissions.

## 3.6 GHG IMPACT ANALYSIS

### 3.6.1 Issue 1: Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.

#### 3.6.1.1 Construction GHG Emissions

The project’s temporary construction emissions were estimated using CalEEMod as described in Section 2.3. The results of the modeling of the project’s GHG emissions shows that construction of the project would generate a total of 699.8 MT of CO<sub>2</sub>e. Amortized (averaged) over the anticipated 30-year lifespan of the project, project construction GHG emissions would be 23.3 MT of CO<sub>2</sub>e per year. The CalEEMod output is included as Appendix A to this report.

#### 3.6.1.2 Operational GHG Emissions

The GHG emissions associated with long-term operation of the project were estimated using CalEEMod as described in Section 2.3 and Section 3.4. The results of the modeling of the project’s operational GHG emissions are shown in Table 13, *Operational GHG Emissions*. The data are presented as the maximum anticipated operational GHG emissions for the first full year of operation (2024) and compared to the City threshold (adjusted for the year 2024). As shown in Table 13, the project’s GHG emissions would be approximately 749.7 MT CO<sub>2</sub>e per year, which is below the 2024 adjusted City threshold of 966 MT CO<sub>2</sub>e per year. Therefore, the project would not generate GHG emissions that may have a significant impact on the environment, and the impact would be less than significant.

**Table 13**  
**OPERATIONAL GHG EMISSIONS**

Source	Emissions (MT CO <sub>2</sub> e/year)
Area	0.6
Energy	111.4
Vehicular (Mobile)	565.3
Solid Waste	34.0
Water and Wastewater	15.1
<b>Total Annual Emissions<sup>1</sup></b>	<b>726.4</b>
<i>Amortized Construction Emissions</i>	23.3
<i>Total Amortized Construction + Operational Emissions</i>	749.7
<i>2024 Adjusted Threshold</i>	966.0
<b><i>Exceed Threshold?</i></b>	<b>No</b>

Source: CalEEMod, output data is provided in Appendix A

<sup>1</sup> Totals may not sum due to rounding.

MT = metric ton; CO<sub>2</sub>e = carbon dioxide equivalent

### 3.6.2 Issue 2: Conflict with an applicable GHG reduction plan, policy, or regulation.

The project, by achieving the City’s threshold, would not conflict with the goals of the City’s CAP and may be seen to exceed its fair share in achieving the state’s reduction target. Additionally, the project would be consistent with CAP measure E-1, Energy Efficient Building Standards, by being constructed in



accordance with the energy-efficiency standards, water reduction goals, and other “green” standards contained in the 2019 Title 24 Part 6 and Part 11 (CALGreen) Building Standards, including the requirement for onsite solar electricity generation. Furthermore, through compliance with AB 341 and Chapter 13.17 of the City’s Municipal Code, the project would be consistent with CAP measures S-1, Expanded Recycling, and S-2, Construction and Demolition Debris Diversion. As such, the project would be consistent with local plans, policies, or regulations adopted for the purpose of reducing GHG emissions. Therefore, the project would not conflict with applicable plans, policies, and regulations related to GHG emission reductions, and the impact would be less than significant.

## **4.0 ENERGY**

This section provides an evaluation of existing energy production/consumption conditions and potential energy use and related impacts from the project. The units of energy used in this section are the British thermal units (Btu), megawatt hours (MWh)<sup>4</sup>, therms, and gallons. A Btu is the quantity of heat required to raise the temperature of one pound of water one °F at sea level. Because the other units of energy can all be converted into equivalent Btu, the Btu is used as the basis for comparing energy consumption associated with different resources. A MWh is a unit of electrical energy, and one MWh is equivalent to approximately 3.413 million Btu (MMBtu), considering initial conversion losses (i.e., from one type of energy, such as chemical, to another type of energy, such as mechanical) and transmission losses. Natural gas consumption is described typically in terms of cubic feet or therms; one cubic foot of natural gas is equivalent to approximately 1.05 MMBtu, and one therm represents 0.1 MMBtu. One gallon of gasoline/diesel is equivalent to approximately 0.125/0.139 MMBtu, respectively, considering energy consumed in the refining process.

### **4.1 ENERGY REGULATORY FRAMEWORK**

#### **4.1.1 Federal Energy Regulations**

##### **4.1.1.1 Energy Independence and Security Act of 2007**

House of Representatives Bill 6 (HR 6), the federal Energy Independence and Security Act of 2007, established new standards for a few energy-consuming equipment types not already subject to a standard, and updated some existing standards. The most substantial new standard that HR 6 established is for general service lighting that is being deployed in two phases. First, phased in between 2012 through 2014, common light bulbs were required to use about 20 to 30 percent less energy than previous incandescent bulbs. Second, by 2020, light bulbs were required to consume 60 percent less energy than previous incandescent bulbs; this requirement will effectively phase out the incandescent light bulb.

---

<sup>4</sup> MWh is the most common measure of electrical energy when discussing utility-scale electrical generation. Other common measures include kilowatt hours (kWh; 1,000 kWh = 1 MWh) and gigawatt hours (GWh; 1,000 MWh = 1 GWh).

## **4.1.2 California Energy Regulations**

### **4.1.2.1 Renewable Energy Programs and Mandates (SB 1078, SB 107, SB 2 X1, SB 350 and SB 100)**

A series of substantive and far-reaching legislative initiatives have been advanced at the State level in the last two decades. These initiatives focused on increasing the generation of electricity via renewable energy sources and promoting a shift from fossil- or carbon-based fuels as a key strategy to reduce GHG emissions, air pollution, and water use associated with the energy sector.

In 2002, California established the Renewables Portfolio Standard (RPS) with SB 1078, requiring electric utilities in the State to increase procurement of eligible renewable energy resources to achieve a target of 20 percent of their annual retail sales by the year 2010. In 2011, Governor Jerry Brown approved the California Renewable Energy Resources Act, SB 2 X1. SB 2 X1 legislatively broadens the scope of the State RPS to include retail electricity sellers; investor- and publicly owned utilities; municipal utilities; and community choice aggregators under the mandate to obtain 33 percent of their retail electrical energy sales from renewable sources by 2020.

Approved by Governor Brown on October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard eligible resources, including solar, wind, biomass, and geothermal. In addition, large utilities are required to develop and submit Integrated Resource Plans to detail how each entity will meet their customers' resource needs, reduce GHG emissions, and increase the use of clean energy.

Approved by Governor Brown on September 10, 2018, SB 100 extends the renewable electricity procurement goals and requirements of SB 350. SB 100 requires that all retail sale of electricity to California end-use customers be procured from 100 percent eligible renewable energy resources and/or zero-carbon resources by the end of 2045.

### **4.1.2.2 California Energy Plan**

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the fewest environmental and energy costs. To further this policy, the plan identifies a number of strategies, including aiding public agencies and fleet operators.

### **4.1.2.3 California Energy Code**

As described in Section 3.2, the 2019 CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings contains reequipments for improving the energy efficiency of new or renovated buildings, including a requirement for onsite photovoltaic electricity generation (e.g., solar panels) for most new or modified residential building up to three stories high (CEC 2019).

## **4.2 ENERGY EXISTING CONDITIONS**

### **4.2.1 State Energy Supply**

#### **4.2.1.1 Electricity**

California’s electricity needs are satisfied by a variety of entities, including investor-owned utilities, publicly owned utilities, and electric service providers. As of 2019, California electricity demand totaled 272,576 gigawatt hours (GWh). In-state generating facilities accounted for about 190,913 GWh, or 70 percent of the total electric power used in the state, with the remaining electricity coming from out-of-state imports (CEC 2021b).

#### **4.2.1.2 Natural Gas**

Natural gas continues to play an important and varied role in California. In 2021, 48 percent of the natural gas burned in California was used for electricity generation, and much of the remainder was consumed in the residential (21 percent), industrial (25 percent), and commercial (9 percent) sectors (CEC 2021a). Natural gas supplies are currently plentiful and relatively inexpensive as a result of technological advances that allow recovery of natural gas from formations such as shale reservoirs that were previously inaccessible. However, potential environmental concerns are causing decision makers to reexamine the development of shale resources and consider tighter regulations, which could affect future natural gas supplies and prices.

#### **4.2.1.3 Transportation Fuels**

Automobiles and trucks consume gasoline and diesel fuel, which are nonrenewable energy products derived from crude oil, which in turn is derived from petroleum. In addition to energy consumption associated with on-road vehicle use, energy is consumed in connection with construction and maintenance of transportation infrastructure. Passenger cars and light-duty trucks are by far the largest consumers of transportation fuel. Retail sales of transportation fuel in California totaled 11.2 billion gallons of gasoline and 1.6 billion gallons of diesel in 2021 (CEC 2021c).

## **4.3 ENERGY METHODOLOGY**

Construction and operational energy used were calculated based on the off-road equipment use and on-road vehicle trips and distances described in Section 2.3. Fuel consumption factors in terms of gallons per hour of diesel for off-road equipment were calculated using data from the CARB Mobile Source Emissions Inventory online database—OFFROAD2017 version 1.0.1 (CARB 2020a). Fuel consumption factors in terms of gallon of diesel and gasoline per mile travel were calculated from the CARB Mobile Source Emissions Inventory online database—EMFAC2017 version 1.0.2 (CARB 2020b). The energy calculation sheets are included as Appendix B to this report.

## **4.4 ENERGY SIGNIFICANCE CRITERIA**

According to Appendix G of the CEQA Guidelines, a project would have a significant environmental impact if it would:

- Result in the wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; and/or.
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

## 4.5 ENERGY IMPACT ANALYSIS

### 4.5.1 Issue 1: Result in the wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.

#### 4.5.1.1 Construction Energy

Energy consumed for project construction would primarily consist of fuels in the form of diesel and gasoline. Fuel consumption would result from: the use of on-road trucks for the transportation of construction materials and water; construction worker vehicles traveling to and from the project site; and from the use of off-road construction equipment. The estimated fuel and total energy consumed during project construction is shown in Table 14, *Construction Energy Use*. The full construction energy consumption calculation sheets are included as Appendix B to this report.

**Table 14  
CONSTRUCTION ENERGY USE**

Source	Gallons Diesel	Gallons Gasoline	MMBtu
Off-Road Construction Equipment	19,083	-	2,652
On-Road Construction Traffic	17,714	3,581	2,906
<b>TOTAL<sup>1</sup></b>	<b>36,798</b>	<b>3,581</b>	<b>5,559</b>

Source: CalEEMod; OFFROAD2017; EMFAC2017

<sup>1</sup> Totals may not sum due to rounding.

MMBtu = million British thermal units

While construction activities would consume petroleum-based fuels, consumption of such resources would be temporary and would cease upon the completion of construction. The petroleum consumed during project construction would be typical of similar residential projects and would not require the use of new petroleum resources beyond those typically consumed in California annually for construction activities. Based on these considerations, construction of the project would not result in wasteful, inefficient, or unnecessary consumption of energy resources and the impact would be less than significant.

#### 4.5.1.2 Operational Energy

During long-term operation of the project, energy would be consumed in the form of diesel and gasoline used by vehicles traveling to and from the project site; natural gas for heating and hot water; electricity required to source and treat water used by the project; and electricity used directly by the project. As discussed in Section 3.4, the 2019 Title 24 Building Energy Efficiency Standards would require the project to provide a minimum of 112.6 kW of on-site photovoltaic generation capacity producing approximately 197,313 kWhr of electricity per year. The project's net electricity use calculation accounts for the on-site solar generation requirement. The project's operational energy use in gallons of fuel, electricity, and equivalent MMBtu is shown in Table 15, *Operational Energy Use*. The energy calculation sheets are included in Appendix C to this report.

**Table 15  
OPERATIONAL ENERGY USE**

Source	Diesel (gallons)	Gasoline (gallons)	Electricity (kWh)	Energy (MMBtu)
Mobile	4,184	108,230	-	14,002
Natural Gas	-	-	-	1,301
Water/Wastewater	-	-	57,900	198
Net Direct Electricity Use	-	-	169,061	576
<b>TOTAL<sup>1</sup></b>	<b>4,184</b>	<b>108,230</b>	<b>226,961</b>	<b>16,078</b>

Source: CalEEMod; OFFROAD2017; EMFAC2017

<sup>1</sup> Totals may not sum due to rounding.

kWh = kilowatt hours; MMBtu = million British thermal units

As shown in Table 15, the project would result in an increase in annual energy consumption of approximately 16,078 MMBtu. While the project would increase the consumption of energy related to electricity, natural gas, water, and wastewater, because the project would be consistent with the City General Plan land use designation and zoning, the increase would be consistent with the energy projections for the state and the region based on the General Plan growth projections. Therefore, operation of the project would not result in wasteful, inefficient, or unnecessary consumption of energy resources and the impact would be less than significant.

#### **4.5.2 Issue 2: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.**

The 2019 Title 24 Building Energy Efficiency Standards include provisions applicable to all buildings, which are mandatory requirements for efficiency and design. The project would be consistent with the requirements of Title 24 through implementation of energy-reduction measures, such as energy efficient lighting and appliances, water efficient appliances and plumbing fixture, water efficient landscaping and irrigation, and the onsite generation of renewable solar energy, as described above. Therefore, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency and the impact would be less than significant.

## **5.0 LIST OF PREPARERS**

David Craft	Air Quality Specialist
Victor Ortiz	Senior Air Quality Specialist
Joanne M. Dramko, AICP	Principal Air Quality Specialist, QA/QC
Kara Palm	Project Manager
Ana Topete	Word Processing

## 6.0 REFERENCES

- California Air Pollution Control Officers Association (CAPCOA). 2021a. Health Effects. Available at: <http://www.capcoa.org/health-effects/>. Accessed: December 8, 2021.
- 2021b. User's Guide for CalEEMod Version 2020.4.0. Available at: [http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/01\\_user-39-s-guide2020-4-0.pdf](http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/01_user-39-s-guide2020-4-0.pdf). Accessed: November 17, 2021.
- California Air Resources Board (CARB). 2021a. Overview: Diesel Exhaust and Health. October 18, 2020. Available at: <https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health>. Accessed: December 9, 2021.
- 2021b. iADAM Air Quality Data Statistics: Top 4 Summary. Available at: <https://www.arb.ca.gov/adam/topfour/topfour1.php>. Accessed: December 8, 2021.
- 2021c. 2022 Scoping Plan Update - Achieving Carbon Neutrality by 2045. Accessed December 10, 2021. Available at: <https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan>. Accessed: December 9, 2021.
- 2021d. Clean Car Standards – Pavley, Assembly Bill 1493. Accessed December. Available at: <http://www.arb.ca.gov/cc/ccms/ccms.htm>. Accessed: December 9, 2021.
- 2021e. California Greenhouse Gas Inventory for 2000-2019 – By Sector and Activity. July 28. Available at: [https://ww3.arb.ca.gov/cc/inventory/data/tables/ghg\\_inventory\\_sector\\_sum\\_2000-19.pdf](https://ww3.arb.ca.gov/cc/inventory/data/tables/ghg_inventory_sector_sum_2000-19.pdf). Accessed: December 10, 2021.
- 2020a. OFFROAD2017 – ORION Version 1.0.1. Available at: <https://www.arb.ca.gov/orion/>. Accessed: December 2021.
- 2020b. EMFAC2017 Web Database Version 1.0.2. Available at: <https://arb.ca.gov/emfac/2017/>. Accessed: December 2021.
2017. California's 2017 Climate Change Scoping Plan. Available at: [https://www.arb.ca.gov/cc/scopingplan/scoping\\_plan\\_2017.pdf](https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf). Accessed: December 9, 2021.
2016. Ambient Air Quality Standards. Accessed December 9, 2021. Available at: [https://ww2.arb.ca.gov/sites/default/files/2020-03/aaqs2\\_0.pdf](https://ww2.arb.ca.gov/sites/default/files/2020-03/aaqs2_0.pdf). Accessed: December 9, 2021.
2014. First Update to the Climate Change Scoping Plan: Building on the Framework. Available at: [http://www.arb.ca.gov/cc/scopingplan/2013\\_update/first\\_update\\_climate\\_change\\_scoping\\_plan.pdf](http://www.arb.ca.gov/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf). Accessed: December 9, 2021.
2009. State Implementation Plan Background. Available at: <https://ww2.arb.ca.gov/our-work/programs/california-state-implementation-plans>. Accessed: December 1, 2021.
2008. Climate Change Scoping Plan – A Framework for Change. December. Available at: [https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/document/adopted\\_scoping\\_plan.pdf](https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/document/adopted_scoping_plan.pdf). Accessed: December 9, 2021.

California Air Resources Board (CARB) (cont.)

2007. California Greenhouse Gas Inventory – By Sector and Activity. Available at: [https://www.arb.ca.gov/cc/inventory/pubs/reports/2000\\_2008/ghg\\_inventory\\_sector\\_00-08\\_all\\_2010-05-12.pdf](https://www.arb.ca.gov/cc/inventory/pubs/reports/2000_2008/ghg_inventory_sector_00-08_all_2010-05-12.pdf). Accessed: December 9, 2021

2005. Air Quality and Land Use Handbook: A Community Health Perspective. April. Available at: <https://ww3.arb.ca.gov/ch/handbook.pdf>. Accessed: December 8, 2021.

California Building Standards Commission (CBSC). 2019. CALGreen (CCR Title 24, Part 11). Available at: <https://www.dgs.ca.gov/BSC/CALGreen>. Accessed: December 9, 2021.

California Department of Conservation. 2000. A General Location Guide for Ultramafic Rocks in California - Areas More Likely to Contain Naturally Occurring Asbestos. Available at: [https://ww2.arb.ca.gov/sites/default/files/classic/toxics/asbestos/ofr\\_2000-019.pdf](https://ww2.arb.ca.gov/sites/default/files/classic/toxics/asbestos/ofr_2000-019.pdf). Accessed: December 8, 2021.

California Energy Commission (CEC). 2021a. Supply and Demand of Natural Gas in California. Available at: <https://www.energy.ca.gov/data-reports/energy-almanac/californias-natural-gas-market/supply-and-demand-natural-gas-california>. Accessed: December 9, 2021.

2021b. 2020 Total System Electric Generation. Available at: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation>. Accessed: December 9, 2021

2021c. 2021 California Annual Retail Fuel Outlet Report Results (CEC-A15). Available at: <https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-retail-fuel-outlet-annual-reporting>. Accessed: December 9, 2021.

2019. CCR Title 24 Part 6, 2019 Residential Compliance Manual, Chapter 7 – Photovoltaic, Community Shared Solar, Battery Storage, and Solar Ready Buildings. Available at: <https://codes.iccsafe.org/content/CACEC2019JAN20E/subchapter-7-low-rise-residential-buildings-mandatory-features-and-devices>. Accessed: December 9, 2021.

Climate Watch. 2021. Global Historical GHG Emissions. Available at: [https://www.climatewatchdata.org/ghg-emissions?chartType=area&end\\_year=2018&start\\_year=1990](https://www.climatewatchdata.org/ghg-emissions?chartType=area&end_year=2018&start_year=1990). Accessed: December 10, 2021.

Intergovernmental Panel on Climate Change (IPCC). 2021. Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. August 2021. Climate Change 2021: The Physical Science Basis. Working Group I Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Table 7.15. Emission metrics for selected species: Global Warming Potential (GWP), Global Temperature-change Potential (GTP) p. 7-125. Available at: [https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC\\_AR6\\_WGI\\_Full\\_Report.pdf](https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Full_Report.pdf). Accessed: December 9, 2021.

2007. Climate Change 2007: The Physical Science Basis. Summary for Policymakers. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. February. Available at: <https://www.ipcc.ch/report/ar4/wg1/>. Accessed: December 9, 2021.

- Iowa Environmental Mesonet (IEM). 2021. Carlsbad/Palomar Windrose Plot. Available at:  
[https://mesonet.agron.iastate.edu/sites/windrose.phtml?station=CRQ&network=CA\\_ASOS](https://mesonet.agron.iastate.edu/sites/windrose.phtml?station=CRQ&network=CA_ASOS).  
Accessed: December 9, 2021.
- Linscott, Law & Greenspan, Engineers (LLG). 2021. Local Transportation Study, Camino Largo.  
November 1.
- National Aeronautics and Space Administration (NASA), Goddard Institute for Space Studies. 2020. NASA  
News & Features Releases. 2020 Tied for Warmest Year on Record, NASA Analysis Shows –  
Climate Change: Vital Signs of the Planet. Available at:  
[https://climate.nasa.gov/news/3061/2020-tied-for-warmest-year-on-record-nasa-analysis-  
shows/](https://climate.nasa.gov/news/3061/2020-tied-for-warmest-year-on-record-nasa-analysis-shows/). Accessed: December 9, 2021.
- National Oceanic and Atmospheric Administration (NOAA). 2020. Global Monitoring Laboratory, Trend  
in CO<sub>2</sub>. Available at: <https://www.esrl.noaa.gov/gmd/ccgg/trends/>. Accessed: December 8,  
2021.
- Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program  
Guidance Manual for Preparation of Health Risk Assessments. February. Available at:  
<https://oehha.ca.gov/media/downloads/crn/2015guidancemanual.pdf>. Accessed: December 1,  
2021.
- Sacramento Metropolitan Air Quality Management District (SMAQMD). 2009. CEQA Guide. December.  
<http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/CEQA-Guidance-Tools>.  
Accessed: December 1, 2021.
- San Diego Air Pollution Control District (SDAPCD). 2021a. Attainment Status. Available at:  
<https://www.sdapcd.org/content/sdapcd/planning/attainment-status.html>. Accessed:  
December 10, 2021.
- 2020b. 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San  
Diego County. October. Available at: [https://ww2.arb.ca.gov/our-work/programs/california-  
state-implementation-plans/nonattainment-area-plans/san-diego-county-0](https://ww2.arb.ca.gov/our-work/programs/california-<br/>state-implementation-plans/nonattainment-area-plans/san-diego-county-0). Accessed:  
December 10, 2021.
2019. RULE 20.2 New Source Review Non-Major Stationary Sources. Revised June 26. Available  
at: [https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-  
20.2.pdf](https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-<br/>20.2.pdf). Accessed: December 9, 2021.
2017. Rule 1206 - Asbestos Removal, Renovation, and Demolition. November. Available at:  
<https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-1206.pdf>.  
Accessed: December 8, 2021.
2015. Rule 67.01.1 Architectural Coatings. June 24. Available at:  
[https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-67.0.1-  
eff010122.pdf](https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-67.0.1-<br/>eff010122.pdf). Accessed: December 2, 2021.



San Diego Air Pollution Control District (SDAPCD) (cont.)

2009. Rule 55 Fugitive Dust Control. June 24. Available at:  
<https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-55.pdf>.  
Accessed: December 2, 2021.

1997. Rule 50 Visible Emissions. August 13. Available at:  
<https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-50.pdf>.  
Accessed: December 2, 2021.

1976. Rule 51 Nuisance. November 8. Available at:  
<https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-51.pdf>.  
Accessed: December 2, 2021.

San Diego Association of Governments (SANDAG). 2015. San Diego Forward – The Regional Plan.  
October. Available at: [http://www.sdfoward.com/pdfs/RP\\_final/The%20Plan%20-%20combined.pdf](http://www.sdfoward.com/pdfs/RP_final/The%20Plan%20-%20combined.pdf). Accessed: December 8, 2021.

San Diego, County of. 2018. Climate Action Plan, Chapter 2 Greenhouse Gas emissions Inventory,  
Projections, and Reduction Targets. Available at:  
[https://www.sandiegocounty.gov/content/dam/sdc/pds/advance/cap/publicreviewdocuments/  
CAPfilespublicreview/Chapter%20%20Greenhouse%20Gas%20Emissions%20Inventory%20%20Projections%20and%20Reduction%20Target.pdf](https://www.sandiegocounty.gov/content/dam/sdc/pds/advance/cap/publicreviewdocuments/CAPfilespublicreview/Chapter%20%20Greenhouse%20Gas%20Emissions%20Inventory%20%20Projections%20and%20Reduction%20Target.pdf). Accessed: December 8, 2021.

South Coast Air Quality Management District (SCAQMD). 1993. CEQA Air Quality Handbook. Available at:  
[http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-\(1993\)](http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993)). Accessed: December 8, 2021.

U.S. Environmental Protection Agency (USEPA). 2021a. Learn About Asbestos. Available at:  
<https://www.epa.gov/asbestos/learn-about-asbestos>. Accessed: December 9, 2021.

2021b. Learn about Lead. Available at: <https://www.epa.gov/lead/learn-about-lead>. Accessed: December 9, 2021.

2021c. Designation of Areas for Air Quality Planning Purposes; California; San Diego County  
Ozone Nonattainment Area; Reclassification to Severe. June 2021. Available at:  
<https://www.federalregister.gov/documents/2021/06/02/2021-11524/designation-of-areas-for-air-quality-planning-purposes-california-san-diego-county-ozone>. Accessed: December 9, 2021.

U.S. Environmental Protection Agency and U.S. Department of Transportation, National Highway Traffic  
Safety Administration (USEPA and NHTSA). 2012. 2017 and Later Model Year Light-Duty Vehicle  
Greenhouse Gas Emissions and Corporate Average Fuel Economy Standards. Available at:  
<https://www.nhtsa.gov/corporate-average-fuel-economy/documents-associated-mys-2012-2016-rulemaking>. Accessed: December 9, 2021.

Vista, City of. 2021. City of Vista 2021-2029 Housing Element. May.

2016. Interim Guidance Memorandum on Assessing GHG Emissions from Projects Subject to CEQA. April 6.

2012. Climate Action Plan. November. Available at:  
<http://www.cityofvista.com/home/showdocument?id=84>. Accessed: December 9, 2021.

2011. Vista Municipal Code Chapter 13.17, Construction and Demolition Debris Recycling. Available at: <https://records.cityofvista.com/WebLink/0/doc/1044632/Page1.aspx>. Accessed: December 5, 2021.

Western Regional Climate Center (WRCC). 2021. Western U.S. Climate Summaries, California, Vista 2 NNE (049378). Available at: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca9378>. Accessed: November 27, 2021.

# Appendix A

---

CalEEMod Output

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Camino Largo Residential Development  
San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	46.00	Dwelling Unit	9.28	82,800.00	220

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	15			<b>Operational Year</b>	2024
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Site is 9.28 acres. 220 residents (Applicant)

Construction Phase - Demo=2 wks (5 working days), Site Prep=6 mo (22wkd/mo\*6~131 d), Grading=1 mo (22 d), Utilities=2 mo (43 d), Building Construction=6 mo (~129 d), Paving=2 wks (10 d), Arch Coatings=default 20 d.

Demolition - 10,600 sq ft of demolished greenhouses and sheds.

Grading - 44,130 cu yds exported.

Vehicle Trips - From Local Transportation Study (LLG 2021)

Woodstoves - No fireplaces and no hearths

Area Coating - Applicant stated no VOC constining products will be applied.

Sequestration - 153 new trees will be planted.

Construction Off-road Equipment Mitigation - Watering is required 2 times per day.

Mobile Land Use Mitigation -

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Area Mitigation - Going beyond to zero compared to SDAPCD Rule 67, as described in Section 2.1.4

Energy Mitigation - From solar spreadsheet

Water Mitigation -

Waste Mitigation -

Off-road Equipment - Based on similar project.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Architectural Coating - Applicant stated that no VOC containing coatings will be applied.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_EF_Residential_Exterior	250	0
tblAreaCoating	Area_EF_Residential_Interior	250	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	129.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	10.00

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	10.00	131.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	25.30	0.00
tblFireplaces	NumberNoFireplace	4.60	0.00
tblFireplaces	NumberWood	16.10	0.00
tblGrading	AcresOfGrading	22.00	20.00
tblGrading	AcresOfGrading	196.50	15.00
tblGrading	MaterialExported	0.00	44,130.00
tblLandUse	LotAcreage	14.94	9.28
tblLandUse	Population	132.00	220.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	153.00
tblVehicleTrips	ST_TR	9.54	10.00
tblVehicleTrips	SU_TR	8.55	10.00
tblVehicleTrips	WD_TR	9.44	10.00
tblWoodstoves	NumberCatalytic	2.30	0.00
tblWoodstoves	NumberNoncatalytic	2.30	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
---------------	-------------------	----------	------

**2.0 Emissions Summary**

---

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3756	4.0505	2.8846	6.9400e-003	1.3587	0.1806	1.5392	0.7124	0.1671	0.8795	0.0000	630.3499	630.3499	0.1373	0.0290	642.4263
2023	0.0364	0.3205	0.3735	6.6000e-004	5.4600e-003	0.0155	0.0209	1.4600e-003	0.0146	0.0161	0.0000	56.9817	56.9817	0.0119	3.7000e-004	57.3898
<b>Maximum</b>	<b>0.3756</b>	<b>4.0505</b>	<b>2.8846</b>	<b>6.9400e-003</b>	<b>1.3587</b>	<b>0.1806</b>	<b>1.5392</b>	<b>0.7124</b>	<b>0.1671</b>	<b>0.8795</b>	<b>0.0000</b>	<b>630.3499</b>	<b>630.3499</b>	<b>0.1373</b>	<b>0.0290</b>	<b>642.4263</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3756	4.0505	2.8846	6.9400e-003	1.3587	0.1806	1.5392	0.7124	0.1671	0.8795	0.0000	630.3494	630.3494	0.1373	0.0290	642.4258
2023	0.0364	0.3205	0.3735	6.6000e-004	5.4600e-003	0.0155	0.0209	1.4600e-003	0.0146	0.0161	0.0000	56.9816	56.9816	0.0119	3.7000e-004	57.3898
<b>Maximum</b>	<b>0.3756</b>	<b>4.0505</b>	<b>2.8846</b>	<b>6.9400e-003</b>	<b>1.3587</b>	<b>0.1806</b>	<b>1.5392</b>	<b>0.7124</b>	<b>0.1671</b>	<b>0.8795</b>	<b>0.0000</b>	<b>630.3494</b>	<b>630.3494</b>	<b>0.1373</b>	<b>0.0290</b>	<b>642.4258</b>



Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2022	6-30-2022	2.2129	2.2129
2	7-1-2022	9-30-2022	1.6196	1.6196
3	10-1-2022	12-31-2022	0.5819	0.5819
4	1-1-2023	3-31-2023	0.3583	0.3583
		Highest	2.2129	2.2129

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3336	3.9300e-003	0.3414	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5579	0.5579	5.4000e-004	0.0000	0.5713
Energy	7.0200e-003	0.0600	0.0255	3.8000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	159.1733	159.1733	6.8100e-003	1.9400e-003	159.9211
Mobile	0.2671	0.3253	2.6952	5.9300e-003	0.6368	4.5700e-003	0.6414	0.1700	4.2600e-003	0.1742	0.0000	557.2990	557.2990	0.0367	0.0238	565.3127
Waste						0.0000	0.0000		0.0000	0.0000	18.3098	0.0000	18.3098	1.0821	0.0000	45.3617
Water						0.0000	0.0000		0.0000	0.0000	0.9508	14.7000	15.6509	0.0986	2.4100e-003	18.8344
<b>Total</b>	<b>0.6078</b>	<b>0.3892</b>	<b>3.0621</b>	<b>6.3300e-003</b>	<b>0.6368</b>	<b>0.0113</b>	<b>0.6481</b>	<b>0.1700</b>	<b>0.0110</b>	<b>0.1810</b>	<b>19.2606</b>	<b>731.7303</b>	<b>750.9909</b>	<b>1.2247</b>	<b>0.0282</b>	<b>790.0014</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3336	3.9300e-003	0.3414	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5579	0.5579	5.4000e-004	0.0000	0.5713
Energy	7.0200e-003	0.0600	0.0255	3.8000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	110.8453	110.8453	3.8600e-003	1.5800e-003	111.4126
Mobile	0.2671	0.3253	2.6952	5.9300e-003	0.6368	4.5700e-003	0.6414	0.1700	4.2600e-003	0.1742	0.0000	557.2990	557.2990	0.0367	0.0238	565.3127
Waste						0.0000	0.0000		0.0000	0.0000	13.7323	0.0000	13.7323	0.8116	0.0000	34.0213
Water						0.0000	0.0000		0.0000	0.0000	0.7607	11.7600	12.5207	0.0789	1.9300e-003	15.0676
<b>Total</b>	<b>0.6078</b>	<b>0.3892</b>	<b>3.0621</b>	<b>6.3300e-003</b>	<b>0.6368</b>	<b>0.0113</b>	<b>0.6481</b>	<b>0.1700</b>	<b>0.0110</b>	<b>0.1810</b>	<b>14.4930</b>	<b>680.4622</b>	<b>694.9552</b>	<b>0.9315</b>	<b>0.0273</b>	<b>726.3855</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>24.75</b>	<b>7.01</b>	<b>7.46</b>	<b>23.94</b>	<b>2.98</b>	<b>8.05</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	108.3240
<b>Total</b>	<b>108.3240</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2022	4/14/2022	5	10	1
2	Site Preparation	Site Preparation	4/1/2022	9/30/2022	5	131	2
3	Grading	Grading	5/1/2022	5/31/2022	5	22	3
4	Utilities	Trenching	6/1/2022	7/31/2022	5	43	4
5	Paving	Paving	8/1/2022	8/14/2022	5	10	5
6	Building Construction	Building Construction	9/1/2022	2/28/2023	5	129	6
7	Architectural Coating	Architectural Coating	3/1/2023	3/28/2023	5	20	7

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Residential Indoor: 167,670; Residential Outdoor: 55,890; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Utilities	Trenchers	1	8.00	78	0.50
Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Utilities	Excavators	1	8.00	158	0.38
Utilities	Plate Compactors	1	4.00	8	0.43
Utilities	Rough Terrain Forklifts	1	4.00	100	0.40
Utilities	Rubber Tired Loaders	1	8.00	203	0.36

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	48.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	5,516.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	17.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2800e-003	0.0000	5.2800e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1286	0.1030	1.9000e-004		6.2100e-003	6.2100e-003		5.7800e-003	5.7800e-003	0.0000	16.9951	16.9951	4.7700e-003	0.0000	17.1145
<b>Total</b>	<b>0.0132</b>	<b>0.1286</b>	<b>0.1030</b>	<b>1.9000e-004</b>	<b>5.2800e-003</b>	<b>6.2100e-003</b>	<b>0.0115</b>	<b>8.0000e-004</b>	<b>5.7800e-003</b>	<b>6.5800e-003</b>	<b>0.0000</b>	<b>16.9951</b>	<b>16.9951</b>	<b>4.7700e-003</b>	<b>0.0000</b>	<b>17.1145</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	4.0400e-003	9.5000e-004	2.0000e-005	4.1000e-004	4.0000e-005	4.5000e-004	1.1000e-004	4.0000e-005	1.5000e-004	0.0000	1.5044	1.5044	7.0000e-005	2.4000e-004	1.5774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.6400e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7682
<b>Total</b>	<b>3.9000e-004</b>	<b>4.2600e-003</b>	<b>3.5900e-003</b>	<b>3.0000e-005</b>	<b>1.3500e-003</b>	<b>5.0000e-005</b>	<b>1.3900e-003</b>	<b>3.6000e-004</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>2.2662</b>	<b>2.2662</b>	<b>9.0000e-005</b>	<b>2.6000e-004</b>	<b>2.3456</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2800e-003	0.0000	5.2800e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1286	0.1030	1.9000e-004		6.2100e-003	6.2100e-003		5.7800e-003	5.7800e-003	0.0000	16.9951	16.9951	4.7700e-003	0.0000	17.1144
<b>Total</b>	<b>0.0132</b>	<b>0.1286</b>	<b>0.1030</b>	<b>1.9000e-004</b>	<b>5.2800e-003</b>	<b>6.2100e-003</b>	<b>0.0115</b>	<b>8.0000e-004</b>	<b>5.7800e-003</b>	<b>6.5800e-003</b>	<b>0.0000</b>	<b>16.9951</b>	<b>16.9951</b>	<b>4.7700e-003</b>	<b>0.0000</b>	<b>17.1144</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	4.0400e-003	9.5000e-004	2.0000e-005	4.1000e-004	4.0000e-005	4.5000e-004	1.1000e-004	4.0000e-005	1.5000e-004	0.0000	1.5044	1.5044	7.0000e-005	2.4000e-004	1.5774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.6400e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7682
<b>Total</b>	<b>3.9000e-004</b>	<b>4.2600e-003</b>	<b>3.5900e-003</b>	<b>3.0000e-005</b>	<b>1.3500e-003</b>	<b>5.0000e-005</b>	<b>1.3900e-003</b>	<b>3.6000e-004</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>2.2662</b>	<b>2.2662</b>	<b>9.0000e-005</b>	<b>2.6000e-004</b>	<b>2.3456</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1913	0.0000	1.1913	0.6513	0.0000	0.6513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2076	2.1670	1.2902	2.4900e-003		0.1056	0.1056		0.0972	0.0972	0.0000	219.0280	219.0280	0.0708	0.0000	220.7990
<b>Total</b>	<b>0.2076</b>	<b>2.1670</b>	<b>1.2902</b>	<b>2.4900e-003</b>	<b>1.1913</b>	<b>0.1056</b>	<b>1.2969</b>	<b>0.6513</b>	<b>0.0972</b>	<b>0.7485</b>	<b>0.0000</b>	<b>219.0280</b>	<b>219.0280</b>	<b>0.0708</b>	<b>0.0000</b>	<b>220.7990</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4600e-003	3.4900e-003	0.0416	1.3000e-004	0.0147	8.0000e-005	0.0148	3.9100e-003	8.0000e-005	3.9800e-003	0.0000	11.9765	11.9765	3.0000e-004	3.1000e-004	12.0767
<b>Total</b>	<b>4.4600e-003</b>	<b>3.4900e-003</b>	<b>0.0416</b>	<b>1.3000e-004</b>	<b>0.0147</b>	<b>8.0000e-005</b>	<b>0.0148</b>	<b>3.9100e-003</b>	<b>8.0000e-005</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>11.9765</b>	<b>11.9765</b>	<b>3.0000e-004</b>	<b>3.1000e-004</b>	<b>12.0767</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1913	0.0000	1.1913	0.6513	0.0000	0.6513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2076	2.1670	1.2902	2.4900e-003		0.1056	0.1056		0.0972	0.0972	0.0000	219.0278	219.0278	0.0708	0.0000	220.7987
<b>Total</b>	<b>0.2076</b>	<b>2.1670</b>	<b>1.2902</b>	<b>2.4900e-003</b>	<b>1.1913</b>	<b>0.1056</b>	<b>1.2969</b>	<b>0.6513</b>	<b>0.0972</b>	<b>0.7485</b>	<b>0.0000</b>	<b>219.0278</b>	<b>219.0278</b>	<b>0.0708</b>	<b>0.0000</b>	<b>220.7987</b>



Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4600e-003	3.4900e-003	0.0416	1.3000e-004	0.0147	8.0000e-005	0.0148	3.9100e-003	8.0000e-005	3.9800e-003	0.0000	11.9765	11.9765	3.0000e-004	3.1000e-004	12.0767
<b>Total</b>	<b>4.4600e-003</b>	<b>3.4900e-003</b>	<b>0.0416</b>	<b>1.3000e-004</b>	<b>0.0147</b>	<b>8.0000e-005</b>	<b>0.0148</b>	<b>3.9100e-003</b>	<b>8.0000e-005</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>11.9765</b>	<b>11.9765</b>	<b>3.0000e-004</b>	<b>3.1000e-004</b>	<b>12.0767</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0800	0.0000	0.0800	0.0380	0.0000	0.0380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.2294	0.1680	3.3000e-004		0.0104	0.0104		9.5200e-003	9.5200e-003	0.0000	28.6602	28.6602	9.2700e-003	0.0000	28.8920
<b>Total</b>	<b>0.0214</b>	<b>0.2294</b>	<b>0.1680</b>	<b>3.3000e-004</b>	<b>0.0800</b>	<b>0.0104</b>	<b>0.0903</b>	<b>0.0380</b>	<b>9.5200e-003</b>	<b>0.0476</b>	<b>0.0000</b>	<b>28.6602</b>	<b>28.6602</b>	<b>9.2700e-003</b>	<b>0.0000</b>	<b>28.8920</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0122	0.4644	0.1095	1.7300e-003	0.0472	4.3200e-003	0.0516	0.0130	4.1300e-003	0.0171	0.0000	172.8748	172.8748	8.3100e-003	0.0275	181.2664
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.9000e-004	5.8200e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6761	1.6761	4.0000e-005	4.0000e-005	1.6901
<b>Total</b>	<b>0.0128</b>	<b>0.4649</b>	<b>0.1153</b>	<b>1.7500e-003</b>	<b>0.0493</b>	<b>4.3300e-003</b>	<b>0.0536</b>	<b>0.0135</b>	<b>4.1400e-003</b>	<b>0.0177</b>	<b>0.0000</b>	<b>174.5509</b>	<b>174.5509</b>	<b>8.3500e-003</b>	<b>0.0275</b>	<b>182.9565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0800	0.0000	0.0800	0.0380	0.0000	0.0380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0214	0.2294	0.1680	3.3000e-004		0.0104	0.0104		9.5200e-003	9.5200e-003	0.0000	28.6602	28.6602	9.2700e-003	0.0000	28.8919
<b>Total</b>	<b>0.0214</b>	<b>0.2294</b>	<b>0.1680</b>	<b>3.3000e-004</b>	<b>0.0800</b>	<b>0.0104</b>	<b>0.0903</b>	<b>0.0380</b>	<b>9.5200e-003</b>	<b>0.0476</b>	<b>0.0000</b>	<b>28.6602</b>	<b>28.6602</b>	<b>9.2700e-003</b>	<b>0.0000</b>	<b>28.8919</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0122	0.4644	0.1095	1.7300e-003	0.0472	4.3200e-003	0.0516	0.0130	4.1300e-003	0.0171	0.0000	172.8748	172.8748	8.3100e-003	0.0275	181.2664
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.9000e-004	5.8200e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6761	1.6761	4.0000e-005	4.0000e-005	1.6901
<b>Total</b>	<b>0.0128</b>	<b>0.4649</b>	<b>0.1153</b>	<b>1.7500e-003</b>	<b>0.0493</b>	<b>4.3300e-003</b>	<b>0.0536</b>	<b>0.0135</b>	<b>4.1400e-003</b>	<b>0.0177</b>	<b>0.0000</b>	<b>174.5509</b>	<b>174.5509</b>	<b>8.3500e-003</b>	<b>0.0275</b>	<b>182.9565</b>

**3.5 Utilities - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0308	0.3032	0.3306	5.6000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	49.2844	49.2844	0.0159	0.0000	49.6810
<b>Total</b>	<b>0.0308</b>	<b>0.3032</b>	<b>0.3306</b>	<b>5.6000e-004</b>		<b>0.0157</b>	<b>0.0157</b>		<b>0.0144</b>	<b>0.0144</b>	<b>0.0000</b>	<b>49.2844</b>	<b>49.2844</b>	<b>0.0159</b>	<b>0.0000</b>	<b>49.6810</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Utilities - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6300e-003	1.2700e-003	0.0152	5.0000e-005	5.3600e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.3680	4.3680	1.1000e-004	1.1000e-004	4.4046
<b>Total</b>	<b>1.6300e-003</b>	<b>1.2700e-003</b>	<b>0.0152</b>	<b>5.0000e-005</b>	<b>5.3600e-003</b>	<b>3.0000e-005</b>	<b>5.3900e-003</b>	<b>1.4200e-003</b>	<b>3.0000e-005</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>4.3680</b>	<b>4.3680</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>4.4046</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0308	0.3032	0.3306	5.6000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	49.2843	49.2843	0.0159	0.0000	49.6810
<b>Total</b>	<b>0.0308</b>	<b>0.3032</b>	<b>0.3306</b>	<b>5.6000e-004</b>		<b>0.0157</b>	<b>0.0157</b>		<b>0.0144</b>	<b>0.0144</b>	<b>0.0000</b>	<b>49.2843</b>	<b>49.2843</b>	<b>0.0159</b>	<b>0.0000</b>	<b>49.6810</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Utilities - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6300e-003	1.2700e-003	0.0152	5.0000e-005	5.3600e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.3680	4.3680	1.1000e-004	1.1000e-004	4.4046
<b>Total</b>	<b>1.6300e-003</b>	<b>1.2700e-003</b>	<b>0.0152</b>	<b>5.0000e-005</b>	<b>5.3600e-003</b>	<b>3.0000e-005</b>	<b>5.3900e-003</b>	<b>1.4200e-003</b>	<b>3.0000e-005</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>4.3680</b>	<b>4.3680</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>4.4046</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.5100e-003</b>	<b>0.0556</b>	<b>0.0729</b>	<b>1.1000e-004</b>		<b>2.8400e-003</b>	<b>2.8400e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>10.0138</b>	<b>10.0138</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.0948</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.6400e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7682
<b>Total</b>	<b>2.8000e-004</b>	<b>2.2000e-004</b>	<b>2.6400e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7619</b>	<b>0.7619</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7682</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.5100e-003</b>	<b>0.0556</b>	<b>0.0729</b>	<b>1.1000e-004</b>		<b>2.8400e-003</b>	<b>2.8400e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>10.0138</b>	<b>10.0138</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.0947</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.6400e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7682
<b>Total</b>	<b>2.8000e-004</b>	<b>2.2000e-004</b>	<b>2.6400e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7619</b>	<b>0.7619</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7682</b>

**3.7 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0742	0.6793	0.7118	1.1700e-003		0.0352	0.0352		0.0331	0.0331	0.0000	100.8005	100.8005	0.0242	0.0000	101.4042
<b>Total</b>	<b>0.0742</b>	<b>0.6793</b>	<b>0.7118</b>	<b>1.1700e-003</b>		<b>0.0352</b>	<b>0.0352</b>		<b>0.0331</b>	<b>0.0331</b>	<b>0.0000</b>	<b>100.8005</b>	<b>100.8005</b>	<b>0.0242</b>	<b>0.0000</b>	<b>101.4042</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0111	3.7300e-003	4.0000e-005	1.3100e-003	1.1000e-004	1.4200e-003	3.8000e-004	1.1000e-004	4.9000e-004	0.0000	4.1324	4.1324	1.3000e-004	6.0000e-004	4.3146
Worker	2.8000e-003	2.1900e-003	0.0261	8.0000e-005	9.2200e-003	5.0000e-005	9.2700e-003	2.4500e-003	5.0000e-005	2.5000e-003	0.0000	7.5120	7.5120	1.9000e-004	2.0000e-004	7.5748
<b>Total</b>	<b>3.2500e-003</b>	<b>0.0133</b>	<b>0.0298</b>	<b>1.2000e-004</b>	<b>0.0105</b>	<b>1.6000e-004</b>	<b>0.0107</b>	<b>2.8300e-003</b>	<b>1.6000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>11.6444</b>	<b>11.6444</b>	<b>3.2000e-004</b>	<b>8.0000e-004</b>	<b>11.8894</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0742	0.6793	0.7118	1.1700e-003		0.0352	0.0352		0.0331	0.0331	0.0000	100.8004	100.8004	0.0242	0.0000	101.4041
<b>Total</b>	<b>0.0742</b>	<b>0.6793</b>	<b>0.7118</b>	<b>1.1700e-003</b>		<b>0.0352</b>	<b>0.0352</b>		<b>0.0331</b>	<b>0.0331</b>	<b>0.0000</b>	<b>100.8004</b>	<b>100.8004</b>	<b>0.0242</b>	<b>0.0000</b>	<b>101.4041</b>



Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0111	3.7300e-003	4.0000e-005	1.3100e-003	1.1000e-004	1.4200e-003	3.8000e-004	1.1000e-004	4.9000e-004	0.0000	4.1324	4.1324	1.3000e-004	6.0000e-004	4.3146
Worker	2.8000e-003	2.1900e-003	0.0261	8.0000e-005	9.2200e-003	5.0000e-005	9.2700e-003	2.4500e-003	5.0000e-005	2.5000e-003	0.0000	7.5120	7.5120	1.9000e-004	2.0000e-004	7.5748
<b>Total</b>	<b>3.2500e-003</b>	<b>0.0133</b>	<b>0.0298</b>	<b>1.2000e-004</b>	<b>0.0105</b>	<b>1.6000e-004</b>	<b>0.0107</b>	<b>2.8300e-003</b>	<b>1.6000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>11.6444</b>	<b>11.6444</b>	<b>3.2000e-004</b>	<b>8.0000e-004</b>	<b>11.8894</b>

**3.7 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0330	0.3021	0.3411	5.7000e-004		0.0147	0.0147		0.0138	0.0138	0.0000	48.6790	48.6790	0.0116	0.0000	48.9685
<b>Total</b>	<b>0.0330</b>	<b>0.3021</b>	<b>0.3411</b>	<b>5.7000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0138</b>	<b>0.0138</b>	<b>0.0000</b>	<b>48.6790</b>	<b>48.6790</b>	<b>0.0116</b>	<b>0.0000</b>	<b>48.9685</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	4.3300e-003	1.5800e-003	2.0000e-005	6.3000e-004	2.0000e-005	6.6000e-004	1.8000e-004	2.0000e-005	2.1000e-004	0.0000	1.9196	1.9196	6.0000e-005	2.8000e-004	2.0040
Worker	1.2700e-003	9.4000e-004	0.0117	4.0000e-005	4.4500e-003	2.0000e-005	4.4700e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.5330	3.5330	8.0000e-005	9.0000e-005	3.5611
<b>Total</b>	<b>1.3900e-003</b>	<b>5.2700e-003</b>	<b>0.0132</b>	<b>6.0000e-005</b>	<b>5.0800e-003</b>	<b>4.0000e-005</b>	<b>5.1300e-003</b>	<b>1.3600e-003</b>	<b>4.0000e-005</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>5.4526</b>	<b>5.4526</b>	<b>1.4000e-004</b>	<b>3.7000e-004</b>	<b>5.5650</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0330	0.3021	0.3411	5.7000e-004		0.0147	0.0147		0.0138	0.0138	0.0000	48.6789	48.6789	0.0116	0.0000	48.9684
<b>Total</b>	<b>0.0330</b>	<b>0.3021</b>	<b>0.3411</b>	<b>5.7000e-004</b>		<b>0.0147</b>	<b>0.0147</b>		<b>0.0138</b>	<b>0.0138</b>	<b>0.0000</b>	<b>48.6789</b>	<b>48.6789</b>	<b>0.0116</b>	<b>0.0000</b>	<b>48.9684</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	4.3300e-003	1.5800e-003	2.0000e-005	6.3000e-004	2.0000e-005	6.6000e-004	1.8000e-004	2.0000e-005	2.1000e-004	0.0000	1.9196	1.9196	6.0000e-005	2.8000e-004	2.0040
Worker	1.2700e-003	9.4000e-004	0.0117	4.0000e-005	4.4500e-003	2.0000e-005	4.4700e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.5330	3.5330	8.0000e-005	9.0000e-005	3.5611
<b>Total</b>	<b>1.3900e-003</b>	<b>5.2700e-003</b>	<b>0.0132</b>	<b>6.0000e-005</b>	<b>5.0800e-003</b>	<b>4.0000e-005</b>	<b>5.1300e-003</b>	<b>1.3600e-003</b>	<b>4.0000e-005</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>5.4526</b>	<b>5.4526</b>	<b>1.4000e-004</b>	<b>3.7000e-004</b>	<b>5.5650</b>

**3.8 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>1.9200e-003</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	9.8000e-004	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2969	0.2969	1.0000e-005	1.0000e-005	0.2993
<b>Total</b>	<b>1.1000e-004</b>	<b>8.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2969</b>	<b>0.2969</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2993</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>1.9200e-003</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	9.8000e-004	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2969	0.2969	1.0000e-005	1.0000e-005	0.2993
<b>Total</b>	<b>1.1000e-004</b>	<b>8.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2969</b>	<b>0.2969</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2993</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2671	0.3253	2.6952	5.9300e-003	0.6368	4.5700e-003	0.6414	0.1700	4.2600e-003	0.1742	0.0000	557.2990	557.2990	0.0367	0.0238	565.3127
Unmitigated	0.2671	0.3253	2.6952	5.9300e-003	0.6368	4.5700e-003	0.6414	0.1700	4.2600e-003	0.1742	0.0000	557.2990	557.2990	0.0367	0.0238	565.3127

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	460.00	460.00	460.00	1,702,304	1,702,304
Total	460.00	460.00	460.00	1,702,304	1,702,304

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.4083	41.4083	2.5300e-003	3.1000e-004	41.5630
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	89.7364	89.7364	5.4800e-003	6.6000e-004	90.0716
NaturalGas Mitigated	7.0200e-003	0.0600	0.0255	3.8000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	69.4370	69.4370	1.3300e-003	1.2700e-003	69.8496
NaturalGas Unmitigated	7.0200e-003	0.0600	0.0255	3.8000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	69.4370	69.4370	1.3300e-003	1.2700e-003	69.8496

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.3012e+006	7.0200e-003	0.0600	0.0255	3.8000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	69.4370	69.4370	1.3300e-003	1.2700e-003	69.8496
<b>Total</b>		<b>7.0200e-003</b>	<b>0.0600</b>	<b>0.0255</b>	<b>3.8000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>69.4370</b>	<b>69.4370</b>	<b>1.3300e-003</b>	<b>1.2700e-003</b>	<b>69.8496</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.3012e+006	7.0200e-003	0.0600	0.0255	3.8000e-004		4.8500e-003	4.8500e-003		4.8500e-003	4.8500e-003	0.0000	69.4370	69.4370	1.3300e-003	1.2700e-003	69.8496
<b>Total</b>		<b>7.0200e-003</b>	<b>0.0600</b>	<b>0.0255</b>	<b>3.8000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>69.4370</b>	<b>69.4370</b>	<b>1.3300e-003</b>	<b>1.2700e-003</b>	<b>69.8496</b>



Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	366374	89.7364	5.4800e-003	6.6000e-004	90.0716
<b>Total</b>		<b>89.7364</b>	<b>5.4800e-003</b>	<b>6.6000e-004</b>	<b>90.0716</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	169061	41.4083	2.5300e-003	3.1000e-004	41.5630
<b>Total</b>		<b>41.4083</b>	<b>2.5300e-003</b>	<b>3.1000e-004</b>	<b>41.5630</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3336	3.9300e-003	0.3414	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5579	0.5579	5.4000e-004	0.0000	0.5713
Unmitigated	0.3336	3.9300e-003	0.3414	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5579	0.5579	5.4000e-004	0.0000	0.5713

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0103	3.9300e-003	0.3414	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5579	0.5579	5.4000e-004	0.0000	0.5713
<b>Total</b>	<b>0.3337</b>	<b>3.9300e-003</b>	<b>0.3414</b>	<b>2.0000e-005</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>0.5579</b>	<b>0.5579</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>0.5713</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0103	3.9300e-003	0.3414	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5579	0.5579	5.4000e-004	0.0000	0.5713
<b>Total</b>	<b>0.3337</b>	<b>3.9300e-003</b>	<b>0.3414</b>	<b>2.0000e-005</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>0.5579</b>	<b>0.5579</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>0.5713</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.5207	0.0789	1.9300e-003	15.0676
Unmitigated	15.6509	0.0986	2.4100e-003	18.8344

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.99709 / 1.88947	15.6509	0.0986	2.4100e-003	18.8344
<b>Total</b>		<b>15.6509</b>	<b>0.0986</b>	<b>2.4100e-003</b>	<b>18.8344</b>

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.39767 / 1.51157	12.5207	0.0789	1.9300e-003	15.0676
<b>Total</b>		<b>12.5207</b>	<b>0.0789</b>	<b>1.9300e-003</b>	<b>15.0676</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.7323	0.8116	0.0000	34.0213
Unmitigated	18.3098	1.0821	0.0000	45.3617

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	90.2	18.3098	1.0821	0.0000	45.3617
<b>Total</b>		<b>18.3098</b>	<b>1.0821</b>	<b>0.0000</b>	<b>45.3617</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	67.65	13.7323	0.8116	0.0000	34.0213
<b>Total</b>		<b>13.7323</b>	<b>0.8116</b>	<b>0.0000</b>	<b>34.0213</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

---

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	108.3240	0.0000	0.0000	108.3240



Camino Largo Residential Development - San Diego County APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**11.2 Net New Trees**

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	153	108.3240	0.0000	0.0000	108.3240
<b>Total</b>		<b>108.3240</b>	<b>0.0000</b>	<b>0.0000</b>	<b>108.3240</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Camino Largo Residential Development**

**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	46.00	Dwelling Unit	9.28	82,800.00	220

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	15			<b>Operational Year</b>	2024
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Site is 9.28 acres. 220 residents (Applicant)

Construction Phase - Demo=2 wks (5 working days), Site Prep=6 mo (22wkd/mo\*6~131 d), Grading=1 mo (22 d), Utilities=2 mo (43 d), Building Construction=6 mo (~129 d), Paving=2 wks (10 d), Arch Coatings=default 20 d.

Demolition - 10,600 sq ft of demolished greenhouses and sheds.

Grading - 44,130 cu yds exported.

Vehicle Trips - From Local Transportation Study (LLG 2021)

Woodstoves - No fireplaces and no hearths

Area Coating - Applicant stated no VOC constining products will be applied.

Sequestration - 153 new trees will be planted.

Construction Off-road Equipment Mitigation - Watering is required 2 times per day.

Mobile Land Use Mitigation -

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Area Mitigation - Going beyond to zero compared to SDAPCD Rule 67, as described in Section 2.1.4

Energy Mitigation - From solar spreadsheet

Water Mitigation -

Waste Mitigation -

Off-road Equipment - Based on similar project.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Architectural Coating - Applicant stated that no VOC containing coatings will be applied.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_EF_Residential_Exterior	250	0
tblAreaCoating	Area_EF_Residential_Interior	250	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	129.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	10.00

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	10.00	131.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	25.30	0.00
tblFireplaces	NumberNoFireplace	4.60	0.00
tblFireplaces	NumberWood	16.10	0.00
tblGrading	AcresOfGrading	22.00	20.00
tblGrading	AcresOfGrading	196.50	15.00
tblGrading	MaterialExported	0.00	44,130.00
tblLandUse	LotAcreage	14.94	9.28
tblLandUse	Population	132.00	220.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	153.00
tblVehicleTrips	ST_TR	9.54	10.00
tblVehicleTrips	SU_TR	8.55	10.00
tblVehicleTrips	WD_TR	9.44	10.00
tblWoodstoves	NumberCatalytic	2.30	0.00
tblWoodstoves	NumberNoncatalytic	2.30	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
---------------	-------------------	----------	------

**2.0 Emissions Summary**

---

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.3671	94.7482	46.1177	0.2288	30.2624	2.9480	33.2104	14.7146	2.7265	17.4411	0.0000	24,266.61 75	24,266.61 75	2.9631	2.7605	25,163.30 76
2023	1.6387	14.6248	16.9136	0.0298	0.2478	0.7020	0.9498	0.0664	0.6606	0.7270	0.0000	2,850.492 3	2,850.492 3	0.6151	0.0189	2,871.498 1
<b>Maximum</b>	<b>6.3671</b>	<b>94.7482</b>	<b>46.1177</b>	<b>0.2288</b>	<b>30.2624</b>	<b>2.9480</b>	<b>33.2104</b>	<b>14.7146</b>	<b>2.7265</b>	<b>17.4411</b>	<b>0.0000</b>	<b>24,266.61 75</b>	<b>24,266.61 75</b>	<b>2.9631</b>	<b>2.7605</b>	<b>25,163.30 76</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.3671	94.7482	46.1177	0.2288	30.2624	2.9480	33.2104	14.7146	2.7265	17.4411	0.0000	24,266.61 75	24,266.61 75	2.9631	2.7605	25,163.30 76
2023	1.6387	14.6248	16.9136	0.0298	0.2478	0.7020	0.9498	0.0664	0.6606	0.7270	0.0000	2,850.492 3	2,850.492 3	0.6151	0.0189	2,871.498 1
<b>Maximum</b>	<b>6.3671</b>	<b>94.7482</b>	<b>46.1177</b>	<b>0.2288</b>	<b>30.2624</b>	<b>2.9480</b>	<b>33.2104</b>	<b>14.7146</b>	<b>2.7265</b>	<b>17.4411</b>	<b>0.0000</b>	<b>24,266.61 75</b>	<b>24,266.61 75</b>	<b>2.9631</b>	<b>2.7605</b>	<b>25,163.30 76</b>



Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973
Energy	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
Mobile	1.5178	1.6681	14.8558	0.0339	3.5835	0.0251	3.6087	0.9546	0.0234	0.9780		3,510.2904	3,510.2904	0.2157	0.1384	3,556.9306
<b>Total</b>	<b>3.4422</b>	<b>2.0403</b>	<b>18.7891</b>	<b>0.0362</b>	<b>3.5835</b>	<b>0.0727</b>	<b>3.6563</b>	<b>0.9546</b>	<b>0.0710</b>	<b>1.0256</b>	<b>0.0000</b>	<b>3,936.5272</b>	<b>3,936.5272</b>	<b>0.2303</b>	<b>0.1461</b>	<b>3,985.8236</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973
Energy	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
Mobile	1.5178	1.6681	14.8558	0.0339	3.5835	0.0251	3.6087	0.9546	0.0234	0.9780		3,510.2904	3,510.2904	0.2157	0.1384	3,556.9306
<b>Total</b>	<b>3.4422</b>	<b>2.0403</b>	<b>18.7891</b>	<b>0.0362</b>	<b>3.5835</b>	<b>0.0727</b>	<b>3.6563</b>	<b>0.9546</b>	<b>0.0710</b>	<b>1.0256</b>	<b>0.0000</b>	<b>3,936.5272</b>	<b>3,936.5272</b>	<b>0.2303</b>	<b>0.1461</b>	<b>3,985.8236</b>



Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2022	4/14/2022	5	10	1
2	Site Preparation	Site Preparation	4/1/2022	9/30/2022	5	131	2
3	Grading	Grading	5/1/2022	5/31/2022	5	22	3
4	Utilities	Trenching	6/1/2022	7/31/2022	5	43	4
5	Paving	Paving	8/1/2022	8/14/2022	5	10	5
6	Building Construction	Building Construction	9/1/2022	2/28/2023	5	129	6
7	Architectural Coating	Architectural Coating	3/1/2023	3/28/2023	5	20	7

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 167,670; Residential Outdoor: 55,890; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Utilities	Trenchers	1	8.00	78	0.50
Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Utilities	Excavators	1	8.00	158	0.38
Utilities	Plate Compactors	1	4.00	8	0.43
Utilities	Rough Terrain Forklifts	1	4.00	100	0.40
Utilities	Rubber Tired Loaders	1	8.00	203	0.36

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	48.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	5,516.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	17.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0564	0.0000	1.0564	0.1600	0.0000	0.1600			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>1.0564</b>	<b>1.2427</b>	<b>2.2991</b>	<b>0.1600</b>	<b>1.1553</b>	<b>1.3152</b>		<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0215	0.7796	0.1895	3.0100e-003	0.0840	7.5100e-003	0.0915	0.0230	7.1800e-003	0.0302		331.5934	331.5934	0.0160	0.0527	347.6891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0403	0.5677	1.7300e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		176.2632	176.2632	4.1000e-003	4.0900e-003	177.5840
<b>Total</b>	<b>0.0782</b>	<b>0.8199</b>	<b>0.7572</b>	<b>4.7400e-003</b>	<b>0.2756</b>	<b>8.5500e-003</b>	<b>0.2841</b>	<b>0.0738</b>	<b>8.1400e-003</b>	<b>0.0820</b>		<b>507.8565</b>	<b>507.8565</b>	<b>0.0201</b>	<b>0.0568</b>	<b>525.2731</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0564	0.0000	1.0564	0.1600	0.0000	0.1600			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>1.0564</b>	<b>1.2427</b>	<b>2.2991</b>	<b>0.1600</b>	<b>1.1553</b>	<b>1.3152</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0215	0.7796	0.1895	3.0100e-003	0.0840	7.5100e-003	0.0915	0.0230	7.1800e-003	0.0302		331.5934	331.5934	0.0160	0.0527	347.6891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0403	0.5677	1.7300e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		176.2632	176.2632	4.1000e-003	4.0900e-003	177.5840
<b>Total</b>	<b>0.0782</b>	<b>0.8199</b>	<b>0.7572</b>	<b>4.7400e-003</b>	<b>0.2756</b>	<b>8.5500e-003</b>	<b>0.2841</b>	<b>0.0738</b>	<b>8.1400e-003</b>	<b>0.0820</b>		<b>507.8565</b>	<b>507.8565</b>	<b>0.0201</b>	<b>0.0568</b>	<b>525.2731</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.1877	0.0000	18.1877	9.9438	0.0000	9.9438			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.1877</b>	<b>1.6126</b>	<b>19.8003</b>	<b>9.9438</b>	<b>1.4836</b>	<b>11.4274</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0680	0.0484	0.6812	2.0800e-003	0.2299	1.2500e-003	0.2312	0.0610	1.1500e-003	0.0621		211.5158	211.5158	4.9200e-003	4.9100e-003	213.1008
<b>Total</b>	<b>0.0680</b>	<b>0.0484</b>	<b>0.6812</b>	<b>2.0800e-003</b>	<b>0.2299</b>	<b>1.2500e-003</b>	<b>0.2312</b>	<b>0.0610</b>	<b>1.1500e-003</b>	<b>0.0621</b>		<b>211.5158</b>	<b>211.5158</b>	<b>4.9200e-003</b>	<b>4.9100e-003</b>	<b>213.1008</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.1877	0.0000	18.1877	9.9438	0.0000	9.9438			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.1877</b>	<b>1.6126</b>	<b>19.8003</b>	<b>9.9438</b>	<b>1.4836</b>	<b>11.4274</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0680	0.0484	0.6812	2.0800e-003	0.2299	1.2500e-003	0.2312	0.0610	1.1500e-003	0.0621		211.5158	211.5158	4.9200e-003	4.9100e-003	213.1008
<b>Total</b>	<b>0.0680</b>	<b>0.0484</b>	<b>0.6812</b>	<b>2.0800e-003</b>	<b>0.2299</b>	<b>1.2500e-003</b>	<b>0.2312</b>	<b>0.0610</b>	<b>1.1500e-003</b>	<b>0.0621</b>		<b>211.5158</b>	<b>211.5158</b>	<b>4.9200e-003</b>	<b>4.9100e-003</b>	<b>213.1008</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2681	0.0000	7.2681	3.4570	0.0000	3.4570			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.2681</b>	<b>0.9409</b>	<b>8.2089</b>	<b>3.4570</b>	<b>0.8656</b>	<b>4.3226</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1236	40.7209	9.8984	0.1573	4.3852	0.3923	4.7774	1.2020	0.3753	1.5773		17,320.7303	17,320.7303	0.8330	2.7515	18,161.4889
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0403	0.5677	1.7300e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		176.2632	176.2632	4.1000e-003	4.0900e-003	177.5840
<b>Total</b>	<b>1.1803</b>	<b>40.7612</b>	<b>10.4660</b>	<b>0.1591</b>	<b>4.5768</b>	<b>0.3933</b>	<b>4.9701</b>	<b>1.2528</b>	<b>0.3762</b>	<b>1.6290</b>		<b>17,496.9934</b>	<b>17,496.9934</b>	<b>0.8371</b>	<b>2.7556</b>	<b>18,339.0729</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2681	0.0000	7.2681	3.4570	0.0000	3.4570			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.2681</b>	<b>0.9409</b>	<b>8.2089</b>	<b>3.4570</b>	<b>0.8656</b>	<b>4.3226</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>



Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1236	40.7209	9.8984	0.1573	4.3852	0.3923	4.7774	1.2020	0.3753	1.5773		17,320.7303	17,320.7303	0.8330	2.7515	18,161.4889
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0403	0.5677	1.7300e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		176.2632	176.2632	4.1000e-003	4.0900e-003	177.5840
<b>Total</b>	<b>1.1803</b>	<b>40.7612</b>	<b>10.4660</b>	<b>0.1591</b>	<b>4.5768</b>	<b>0.3933</b>	<b>4.9701</b>	<b>1.2528</b>	<b>0.3762</b>	<b>1.6290</b>		<b>17,496.9934</b>	<b>17,496.9934</b>	<b>0.8371</b>	<b>2.7556</b>	<b>18,339.0729</b>

**3.5 Utilities - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4305	14.1021	15.3782	0.0262		0.7290	0.7290		0.6710	0.6710		2,526.8256	2,526.8256	0.8134		2,547.1616
<b>Total</b>	<b>1.4305</b>	<b>14.1021</b>	<b>15.3782</b>	<b>0.0262</b>		<b>0.7290</b>	<b>0.7290</b>		<b>0.6710</b>	<b>0.6710</b>		<b>2,526.8256</b>	<b>2,526.8256</b>	<b>0.8134</b>		<b>2,547.1616</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Utilities - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0755	0.0537	0.7569	2.3100e-003	0.2555	1.3900e-003	0.2569	0.0678	1.2800e-003	0.0690		235.0175	235.0175	5.4700e-003	5.4500e-003	236.7787
<b>Total</b>	<b>0.0755</b>	<b>0.0537</b>	<b>0.7569</b>	<b>2.3100e-003</b>	<b>0.2555</b>	<b>1.3900e-003</b>	<b>0.2569</b>	<b>0.0678</b>	<b>1.2800e-003</b>	<b>0.0690</b>		<b>235.0175</b>	<b>235.0175</b>	<b>5.4700e-003</b>	<b>5.4500e-003</b>	<b>236.7787</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4305	14.1021	15.3782	0.0262		0.7290	0.7290		0.6710	0.6710	0.0000	2,526.8256	2,526.8256	0.8134		2,547.1616
<b>Total</b>	<b>1.4305</b>	<b>14.1021</b>	<b>15.3782</b>	<b>0.0262</b>		<b>0.7290</b>	<b>0.7290</b>		<b>0.6710</b>	<b>0.6710</b>	<b>0.0000</b>	<b>2,526.8256</b>	<b>2,526.8256</b>	<b>0.8134</b>		<b>2,547.1616</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Utilities - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0755	0.0537	0.7569	2.3100e-003	0.2555	1.3900e-003	0.2569	0.0678	1.2800e-003	0.0690		235.0175	235.0175	5.4700e-003	5.4500e-003	236.7787
<b>Total</b>	<b>0.0755</b>	<b>0.0537</b>	<b>0.7569</b>	<b>2.3100e-003</b>	<b>0.2555</b>	<b>1.3900e-003</b>	<b>0.2569</b>	<b>0.0678</b>	<b>1.2800e-003</b>	<b>0.0690</b>		<b>235.0175</b>	<b>235.0175</b>	<b>5.4700e-003</b>	<b>5.4500e-003</b>	<b>236.7787</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0403	0.5677	1.7300e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		176.2632	176.2632	4.1000e-003	4.0900e-003	177.5840
<b>Total</b>	<b>0.0567</b>	<b>0.0403</b>	<b>0.5677</b>	<b>1.7300e-003</b>	<b>0.1916</b>	<b>1.0400e-003</b>	<b>0.1926</b>	<b>0.0508</b>	<b>9.6000e-004</b>	<b>0.0518</b>		<b>176.2632</b>	<b>176.2632</b>	<b>4.1000e-003</b>	<b>4.0900e-003</b>	<b>177.5840</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0403	0.5677	1.7300e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		176.2632	176.2632	4.1000e-003	4.0900e-003	177.5840
<b>Total</b>	<b>0.0567</b>	<b>0.0403</b>	<b>0.5677</b>	<b>1.7300e-003</b>	<b>0.1916</b>	<b>1.0400e-003</b>	<b>0.1926</b>	<b>0.0508</b>	<b>9.6000e-004</b>	<b>0.0518</b>		<b>176.2632</b>	<b>176.2632</b>	<b>4.1000e-003</b>	<b>4.0900e-003</b>	<b>177.5840</b>

**3.7 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.2460	0.0846	9.7000e-004	0.0306	2.6200e-003	0.0333	8.8200e-003	2.5100e-003	0.0113		104.6922	104.6922	3.1900e-003	0.0152	109.3036
Worker	0.0642	0.0457	0.6434	1.9600e-003	0.2171	1.1800e-003	0.2183	0.0576	1.0900e-003	0.0587		199.7649	199.7649	4.6500e-003	4.6300e-003	201.2619
<b>Total</b>	<b>0.0746</b>	<b>0.2917</b>	<b>0.7279</b>	<b>2.9300e-003</b>	<b>0.2478</b>	<b>3.8000e-003</b>	<b>0.2516</b>	<b>0.0664</b>	<b>3.6000e-003</b>	<b>0.0700</b>		<b>304.4571</b>	<b>304.4571</b>	<b>7.8400e-003</b>	<b>0.0198</b>	<b>310.5654</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2022**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.2460	0.0846	9.7000e-004	0.0306	2.6200e-003	0.0333	8.8200e-003	2.5100e-003	0.0113		104.6922	104.6922	3.1900e-003	0.0152	109.3036
Worker	0.0642	0.0457	0.6434	1.9600e-003	0.2171	1.1800e-003	0.2183	0.0576	1.0900e-003	0.0587		199.7649	199.7649	4.6500e-003	4.6300e-003	201.2619
<b>Total</b>	<b>0.0746</b>	<b>0.2917</b>	<b>0.7279</b>	<b>2.9300e-003</b>	<b>0.2478</b>	<b>3.8000e-003</b>	<b>0.2516</b>	<b>0.0664</b>	<b>3.6000e-003</b>	<b>0.0700</b>		<b>304.4571</b>	<b>304.4571</b>	<b>7.8400e-003</b>	<b>0.0198</b>	<b>310.5654</b>

**3.7 Building Construction - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7100e-003	0.1993	0.0742	9.3000e-004	0.0306	1.1800e-003	0.0318	8.8200e-003	1.1300e-003	9.9500e-003		100.6928	100.6928	3.0600e-003	0.0146	105.1172
Worker	0.0602	0.0407	0.5954	1.9000e-003	0.2171	1.1200e-003	0.2183	0.0576	1.0400e-003	0.0586		194.5896	194.5896	4.2000e-003	4.3000e-003	195.9749
<b>Total</b>	<b>0.0659</b>	<b>0.2399</b>	<b>0.6696</b>	<b>2.8300e-003</b>	<b>0.2478</b>	<b>2.3000e-003</b>	<b>0.2501</b>	<b>0.0664</b>	<b>2.1700e-003</b>	<b>0.0686</b>		<b>295.2824</b>	<b>295.2824</b>	<b>7.2600e-003</b>	<b>0.0189</b>	<b>301.0920</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>



Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7100e-003	0.1993	0.0742	9.3000e-004	0.0306	1.1800e-003	0.0318	8.8200e-003	1.1300e-003	9.9500e-003		100.6928	100.6928	3.0600e-003	0.0146	105.1172
Worker	0.0602	0.0407	0.5954	1.9000e-003	0.2171	1.1200e-003	0.2183	0.0576	1.0400e-003	0.0586		194.5896	194.5896	4.2000e-003	4.3000e-003	195.9749
<b>Total</b>	<b>0.0659</b>	<b>0.2399</b>	<b>0.6696</b>	<b>2.8300e-003</b>	<b>0.2478</b>	<b>2.3000e-003</b>	<b>0.2501</b>	<b>0.0664</b>	<b>2.1700e-003</b>	<b>0.0686</b>		<b>295.2824</b>	<b>295.2824</b>	<b>7.2600e-003</b>	<b>0.0189</b>	<b>301.0920</b>

**3.8 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>0.1917</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0106	7.1700e-003	0.1051	3.4000e-004	0.0383	2.0000e-004	0.0385	0.0102	1.8000e-004	0.0103		34.3394	34.3394	7.4000e-004	7.6000e-004	34.5838
<b>Total</b>	<b>0.0106</b>	<b>7.1700e-003</b>	<b>0.1051</b>	<b>3.4000e-004</b>	<b>0.0383</b>	<b>2.0000e-004</b>	<b>0.0385</b>	<b>0.0102</b>	<b>1.8000e-004</b>	<b>0.0103</b>		<b>34.3394</b>	<b>34.3394</b>	<b>7.4000e-004</b>	<b>7.6000e-004</b>	<b>34.5838</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>0.1917</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0106	7.1700e-003	0.1051	3.4000e-004	0.0383	2.0000e-004	0.0385	0.0102	1.8000e-004	0.0103		34.3394	34.3394	7.4000e-004	7.6000e-004	34.5838
<b>Total</b>	<b>0.0106</b>	<b>7.1700e-003</b>	<b>0.1051</b>	<b>3.4000e-004</b>	<b>0.0383</b>	<b>2.0000e-004</b>	<b>0.0385</b>	<b>0.0102</b>	<b>1.8000e-004</b>	<b>0.0103</b>		<b>34.3394</b>	<b>34.3394</b>	<b>7.4000e-004</b>	<b>7.6000e-004</b>	<b>34.5838</b>

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5178	1.6681	14.8558	0.0339	3.5835	0.0251	3.6087	0.9546	0.0234	0.9780		3,510.290 4	3,510.290 4	0.2157	0.1384	3,556.930 6
Unmitigated	1.5178	1.6681	14.8558	0.0339	3.5835	0.0251	3.6087	0.9546	0.0234	0.9780		3,510.290 4	3,510.290 4	0.2157	0.1384	3,556.930 6

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	460.00	460.00	460.00	1,702,304	1,702,304
Total	460.00	460.00	460.00	1,702,304	1,702,304

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
NaturalGas Unmitigated	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	3564.93	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
<b>Total</b>		<b>0.0385</b>	<b>0.3285</b>	<b>0.1398</b>	<b>2.1000e-003</b>		<b>0.0266</b>	<b>0.0266</b>		<b>0.0266</b>	<b>0.0266</b>		<b>419.4035</b>	<b>419.4035</b>	<b>8.0400e-003</b>	<b>7.6900e-003</b>	<b>421.8958</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	3.56493	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
<b>Total</b>		<b>0.0385</b>	<b>0.3285</b>	<b>0.1398</b>	<b>2.1000e-003</b>		<b>0.0266</b>	<b>0.0266</b>		<b>0.0266</b>	<b>0.0266</b>		<b>419.4035</b>	<b>419.4035</b>	<b>8.0400e-003</b>	<b>7.6900e-003</b>	<b>421.8958</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973
Unmitigated	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7719					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1141	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210		6.8334	6.8334	6.5600e-003		6.9973
<b>Total</b>	<b>1.8860</b>	<b>0.0437</b>	<b>3.7935</b>	<b>2.0000e-004</b>		<b>0.0210</b>	<b>0.0210</b>		<b>0.0210</b>	<b>0.0210</b>	<b>0.0000</b>	<b>6.8334</b>	<b>6.8334</b>	<b>6.5600e-003</b>	<b>0.0000</b>	<b>6.9973</b>



Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7719					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1141	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210		6.8334	6.8334	6.5600e-003		6.9973
<b>Total</b>	<b>1.8860</b>	<b>0.0437</b>	<b>3.7935</b>	<b>2.0000e-004</b>		<b>0.0210</b>	<b>0.0210</b>		<b>0.0210</b>	<b>0.0210</b>	<b>0.0000</b>	<b>6.8334</b>	<b>6.8334</b>	<b>6.5600e-003</b>	<b>0.0000</b>	<b>6.9973</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Camino Largo Residential Development - San Diego County APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

---

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Camino Largo Residential Development  
San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	46.00	Dwelling Unit	9.28	82,800.00	220

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	15			<b>Operational Year</b>	2024
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Site is 9.28 acres. 220 residents (Applicant)

Construction Phase - Demo=2 wks (5 working days), Site Prep=6 mo (22wkd/mo\*6~131 d), Grading=1 mo (22 d), Utilities=2 mo (43 d), Building Construction=6 mo (~129 d), Paving=2 wks (10 d), Arch Coatings=default 20 d.

Demolition - 10,600 sq ft of demolished greenhouses and sheds.

Grading - 44,130 cu yds exported.

Vehicle Trips - From Local Transportation Study (LLG 2021)

Woodstoves - No fireplaces and no hearths

Area Coating - Applicant stated no VOC constining products will be applied.

Sequestration - 153 new trees will be planted.

Construction Off-road Equipment Mitigation - Watering is required 2 times per day.

Mobile Land Use Mitigation -

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Area Mitigation - Going beyond to zero compared to SDAPCD Rule 67, as described in Section 2.1.4

Energy Mitigation - From solar spreadsheet

Water Mitigation -

Waste Mitigation -

Off-road Equipment - Based on similar project.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Architectural Coating - Applicant stated that no VOC containing coatings will be applied.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Parking	250.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	0.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_EF_Residential_Exterior	250	0
tblAreaCoating	Area_EF_Residential_Interior	250	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	129.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	10.00

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	10.00	131.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	25.30	0.00
tblFireplaces	NumberNoFireplace	4.60	0.00
tblFireplaces	NumberWood	16.10	0.00
tblGrading	AcresOfGrading	22.00	20.00
tblGrading	AcresOfGrading	196.50	15.00
tblGrading	MaterialExported	0.00	44,130.00
tblLandUse	LotAcreage	14.94	9.28
tblLandUse	Population	132.00	220.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	153.00
tblVehicleTrips	ST_TR	9.54	10.00
tblVehicleTrips	SU_TR	8.55	10.00
tblVehicleTrips	WD_TR	9.44	10.00
tblWoodstoves	NumberCatalytic	2.30	0.00
tblWoodstoves	NumberNoncatalytic	2.30	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
---------------	-------------------	----------	------

**2.0 Emissions Summary**

---

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.3521	96.2880	46.1760	0.2287	30.2624	2.9486	33.2111	14.7146	2.7272	17.4417	0.0000	24,252.40 09	24,252.40 09	2.9616	2.7625	25,149.65 61
2023	1.6454	14.6383	16.8727	0.0297	0.2478	0.7021	0.9498	0.0664	0.6606	0.7270	0.0000	2,839.864 6	2,839.864 6	0.6152	0.0193	2,860.986 5
<b>Maximum</b>	<b>6.3521</b>	<b>96.2880</b>	<b>46.1760</b>	<b>0.2287</b>	<b>30.2624</b>	<b>2.9486</b>	<b>33.2111</b>	<b>14.7146</b>	<b>2.7272</b>	<b>17.4417</b>	<b>0.0000</b>	<b>24,252.40 09</b>	<b>24,252.40 09</b>	<b>2.9616</b>	<b>2.7625</b>	<b>25,149.65 61</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.3521	96.2880	46.1760	0.2287	30.2624	2.9486	33.2111	14.7146	2.7272	17.4417	0.0000	24,252.40 09	24,252.40 09	2.9616	2.7625	25,149.65 61
2023	1.6454	14.6383	16.8727	0.0297	0.2478	0.7021	0.9498	0.0664	0.6606	0.7270	0.0000	2,839.864 6	2,839.864 6	0.6152	0.0193	2,860.986 5
<b>Maximum</b>	<b>6.3521</b>	<b>96.2880</b>	<b>46.1760</b>	<b>0.2287</b>	<b>30.2624</b>	<b>2.9486</b>	<b>33.2111</b>	<b>14.7146</b>	<b>2.7272</b>	<b>17.4417</b>	<b>0.0000</b>	<b>24,252.40 09</b>	<b>24,252.40 09</b>	<b>2.9616</b>	<b>2.7625</b>	<b>25,149.65 61</b>





Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973
Energy	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
Mobile	1.4941	1.8059	15.0695	0.0324	3.5835	0.0251	3.6087	0.9546	0.0235	0.9780		3,356.2307	3,356.2307	0.2261	0.1456	3,405.2604
<b>Total</b>	<b>3.4185</b>	<b>2.1781</b>	<b>19.0028</b>	<b>0.0347</b>	<b>3.5835</b>	<b>0.0727</b>	<b>3.6563</b>	<b>0.9546</b>	<b>0.0710</b>	<b>1.0256</b>	<b>0.0000</b>	<b>3,782.4676</b>	<b>3,782.4676</b>	<b>0.2407</b>	<b>0.1533</b>	<b>3,834.1535</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973
Energy	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
Mobile	1.4941	1.8059	15.0695	0.0324	3.5835	0.0251	3.6087	0.9546	0.0235	0.9780		3,356.2307	3,356.2307	0.2261	0.1456	3,405.2604
<b>Total</b>	<b>3.4185</b>	<b>2.1781</b>	<b>19.0028</b>	<b>0.0347</b>	<b>3.5835</b>	<b>0.0727</b>	<b>3.6563</b>	<b>0.9546</b>	<b>0.0710</b>	<b>1.0256</b>	<b>0.0000</b>	<b>3,782.4676</b>	<b>3,782.4676</b>	<b>0.2407</b>	<b>0.1533</b>	<b>3,834.1535</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2022	4/14/2022	5	10	1
2	Site Preparation	Site Preparation	4/1/2022	9/30/2022	5	131	2
3	Grading	Grading	5/1/2022	5/31/2022	5	22	3
4	Utilities	Trenching	6/1/2022	7/31/2022	5	43	4
5	Paving	Paving	8/1/2022	8/14/2022	5	10	5
6	Building Construction	Building Construction	9/1/2022	2/28/2023	5	129	6
7	Architectural Coating	Architectural Coating	3/1/2023	3/28/2023	5	20	7

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 167,670; Residential Outdoor: 55,890; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Utilities	Trenchers	1	8.00	78	0.50
Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Utilities	Excavators	1	8.00	158	0.38
Utilities	Plate Compactors	1	4.00	8	0.43
Utilities	Rough Terrain Forklifts	1	4.00	100	0.40
Utilities	Rubber Tired Loaders	1	8.00	203	0.36

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	48.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	5,516.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	17.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0564	0.0000	1.0564	0.1600	0.0000	0.1600			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>1.0564</b>	<b>1.2427</b>	<b>2.2991</b>	<b>0.1600</b>	<b>1.1553</b>	<b>1.3152</b>		<b>3,746.781 2</b>	<b>3,746.781 2</b>	<b>1.0524</b>		<b>3,773.092 0</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0210	0.8088	0.1924	3.0100e-003	0.0840	7.5200e-003	0.0915	0.0230	7.2000e-003	0.0302		331.7338	331.7338	0.0159	0.0527	347.8361
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0453	0.5257	1.6400e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		166.4672	166.4672	4.2300e-003	4.4200e-003	167.8888
<b>Total</b>	<b>0.0839</b>	<b>0.8541</b>	<b>0.7180</b>	<b>4.6500e-003</b>	<b>0.2756</b>	<b>8.5600e-003</b>	<b>0.2841</b>	<b>0.0738</b>	<b>8.1600e-003</b>	<b>0.0820</b>		<b>498.2010</b>	<b>498.2010</b>	<b>0.0201</b>	<b>0.0571</b>	<b>515.7249</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0564	0.0000	1.0564	0.1600	0.0000	0.1600			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>1.0564</b>	<b>1.2427</b>	<b>2.2991</b>	<b>0.1600</b>	<b>1.1553</b>	<b>1.3152</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0210	0.8088	0.1924	3.0100e-003	0.0840	7.5200e-003	0.0915	0.0230	7.2000e-003	0.0302		331.7338	331.7338	0.0159	0.0527	347.8361
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0453	0.5257	1.6400e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		166.4672	166.4672	4.2300e-003	4.4200e-003	167.8888
<b>Total</b>	<b>0.0839</b>	<b>0.8541</b>	<b>0.7180</b>	<b>4.6500e-003</b>	<b>0.2756</b>	<b>8.5600e-003</b>	<b>0.2841</b>	<b>0.0738</b>	<b>8.1600e-003</b>	<b>0.0820</b>		<b>498.2010</b>	<b>498.2010</b>	<b>0.0201</b>	<b>0.0571</b>	<b>515.7249</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.1877	0.0000	18.1877	9.9438	0.0000	9.9438			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.1877</b>	<b>1.6126</b>	<b>19.8003</b>	<b>9.9438</b>	<b>1.4836</b>	<b>11.4274</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0756	0.0543	0.6308	1.9600e-003	0.2299	1.2500e-003	0.2312	0.0610	1.1500e-003	0.0621		199.7607	199.7607	5.0800e-003	5.3000e-003	201.4666
<b>Total</b>	<b>0.0756</b>	<b>0.0543</b>	<b>0.6308</b>	<b>1.9600e-003</b>	<b>0.2299</b>	<b>1.2500e-003</b>	<b>0.2312</b>	<b>0.0610</b>	<b>1.1500e-003</b>	<b>0.0621</b>		<b>199.7607</b>	<b>199.7607</b>	<b>5.0800e-003</b>	<b>5.3000e-003</b>	<b>201.4666</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.1877	0.0000	18.1877	9.9438	0.0000	9.9438			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>18.1877</b>	<b>1.6126</b>	<b>19.8003</b>	<b>9.9438</b>	<b>1.4836</b>	<b>11.4274</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0756	0.0543	0.6308	1.9600e-003	0.2299	1.2500e-003	0.2312	0.0610	1.1500e-003	0.0621		199.7607	199.7607	5.0800e-003	5.3000e-003	201.4666
<b>Total</b>	<b>0.0756</b>	<b>0.0543</b>	<b>0.6308</b>	<b>1.9600e-003</b>	<b>0.2299</b>	<b>1.2500e-003</b>	<b>0.2312</b>	<b>0.0610</b>	<b>1.1500e-003</b>	<b>0.0621</b>		<b>199.7607</b>	<b>199.7607</b>	<b>5.0800e-003</b>	<b>5.3000e-003</b>	<b>201.4666</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2681	0.0000	7.2681	3.4570	0.0000	3.4570			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.2681</b>	<b>0.9409</b>	<b>8.2089</b>	<b>3.4570</b>	<b>0.8656</b>	<b>4.3226</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>



Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0948	42.2498	10.0491	0.1574	4.3852	0.3929	4.7781	1.2020	0.3759	1.5779		17,328.06 47	17,328.06 47	0.8313	2.7528	18,169.16 69
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0453	0.5257	1.6400e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		166.4672	166.4672	4.2300e-003	4.4200e-003	167.8888
<b>Total</b>	<b>1.1578</b>	<b>42.2950</b>	<b>10.5748</b>	<b>0.1591</b>	<b>4.5768</b>	<b>0.3939</b>	<b>4.9707</b>	<b>1.2528</b>	<b>0.3769</b>	<b>1.6297</b>		<b>17,494.53 19</b>	<b>17,494.53 19</b>	<b>0.8355</b>	<b>2.7572</b>	<b>18,337.05 57</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2681	0.0000	7.2681	3.4570	0.0000	3.4570			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.2681</b>	<b>0.9409</b>	<b>8.2089</b>	<b>3.4570</b>	<b>0.8656</b>	<b>4.3226</b>	<b>0.0000</b>	<b>2,872.046 4</b>	<b>2,872.046 4</b>	<b>0.9289</b>		<b>2,895.268 4</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0948	42.2498	10.0491	0.1574	4.3852	0.3929	4.7781	1.2020	0.3759	1.5779		17,328.06 47	17,328.06 47	0.8313	2.7528	18,169.16 69
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0453	0.5257	1.6400e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		166.4672	166.4672	4.2300e-003	4.4200e-003	167.8888
<b>Total</b>	<b>1.1578</b>	<b>42.2950</b>	<b>10.5748</b>	<b>0.1591</b>	<b>4.5768</b>	<b>0.3939</b>	<b>4.9707</b>	<b>1.2528</b>	<b>0.3769</b>	<b>1.6297</b>		<b>17,494.53 19</b>	<b>17,494.53 19</b>	<b>0.8355</b>	<b>2.7572</b>	<b>18,337.05 57</b>

**3.5 Utilities - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4305	14.1021	15.3782	0.0262		0.7290	0.7290		0.6710	0.6710		2,526.825 6	2,526.825 6	0.8134		2,547.161 6
<b>Total</b>	<b>1.4305</b>	<b>14.1021</b>	<b>15.3782</b>	<b>0.0262</b>		<b>0.7290</b>	<b>0.7290</b>		<b>0.6710</b>	<b>0.6710</b>		<b>2,526.825 6</b>	<b>2,526.825 6</b>	<b>0.8134</b>		<b>2,547.161 6</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Utilities - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0840	0.0604	0.7009	2.1800e-003	0.2555	1.3900e-003	0.2569	0.0678	1.2800e-003	0.0690		221.9563	221.9563	5.6400e-003	5.8900e-003	223.8518
<b>Total</b>	<b>0.0840</b>	<b>0.0604</b>	<b>0.7009</b>	<b>2.1800e-003</b>	<b>0.2555</b>	<b>1.3900e-003</b>	<b>0.2569</b>	<b>0.0678</b>	<b>1.2800e-003</b>	<b>0.0690</b>		<b>221.9563</b>	<b>221.9563</b>	<b>5.6400e-003</b>	<b>5.8900e-003</b>	<b>223.8518</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4305	14.1021	15.3782	0.0262		0.7290	0.7290		0.6710	0.6710	0.0000	2,526.8256	2,526.8256	0.8134		2,547.1616
<b>Total</b>	<b>1.4305</b>	<b>14.1021</b>	<b>15.3782</b>	<b>0.0262</b>		<b>0.7290</b>	<b>0.7290</b>		<b>0.6710</b>	<b>0.6710</b>	<b>0.0000</b>	<b>2,526.8256</b>	<b>2,526.8256</b>	<b>0.8134</b>		<b>2,547.1616</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Utilities - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0840	0.0604	0.7009	2.1800e-003	0.2555	1.3900e-003	0.2569	0.0678	1.2800e-003	0.0690		221.9563	221.9563	5.6400e-003	5.8900e-003	223.8518
<b>Total</b>	<b>0.0840</b>	<b>0.0604</b>	<b>0.7009</b>	<b>2.1800e-003</b>	<b>0.2555</b>	<b>1.3900e-003</b>	<b>0.2569</b>	<b>0.0678</b>	<b>1.2800e-003</b>	<b>0.0690</b>		<b>221.9563</b>	<b>221.9563</b>	<b>5.6400e-003</b>	<b>5.8900e-003</b>	<b>223.8518</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0453	0.5257	1.6400e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		166.4672	166.4672	4.2300e-003	4.4200e-003	167.8888
<b>Total</b>	<b>0.0630</b>	<b>0.0453</b>	<b>0.5257</b>	<b>1.6400e-003</b>	<b>0.1916</b>	<b>1.0400e-003</b>	<b>0.1926</b>	<b>0.0508</b>	<b>9.6000e-004</b>	<b>0.0518</b>		<b>166.4672</b>	<b>166.4672</b>	<b>4.2300e-003</b>	<b>4.4200e-003</b>	<b>167.8888</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0453	0.5257	1.6400e-003	0.1916	1.0400e-003	0.1926	0.0508	9.6000e-004	0.0518		166.4672	166.4672	4.2300e-003	4.4200e-003	167.8888
<b>Total</b>	<b>0.0630</b>	<b>0.0453</b>	<b>0.5257</b>	<b>1.6400e-003</b>	<b>0.1916</b>	<b>1.0400e-003</b>	<b>0.1926</b>	<b>0.0508</b>	<b>9.6000e-004</b>	<b>0.0518</b>		<b>166.4672</b>	<b>166.4672</b>	<b>4.2300e-003</b>	<b>4.4200e-003</b>	<b>167.8888</b>

**3.7 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.2553	0.0874	9.7000e-004	0.0306	2.6300e-003	0.0333	8.8200e-003	2.5100e-003	0.0113		104.7513	104.7513	3.1700e-003	0.0152	109.3690
Worker	0.0714	0.0513	0.5957	1.8500e-003	0.2171	1.1800e-003	0.2183	0.0576	1.0900e-003	0.0587		188.6629	188.6629	4.8000e-003	5.0000e-003	190.2740
<b>Total</b>	<b>0.0816</b>	<b>0.3066</b>	<b>0.6831</b>	<b>2.8200e-003</b>	<b>0.2478</b>	<b>3.8100e-003</b>	<b>0.2516</b>	<b>0.0664</b>	<b>3.6000e-003</b>	<b>0.0700</b>		<b>293.4141</b>	<b>293.4141</b>	<b>7.9700e-003</b>	<b>0.0202</b>	<b>299.6430</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.2553	0.0874	9.7000e-004	0.0306	2.6300e-003	0.0333	8.8200e-003	2.5100e-003	0.0113		104.7513	104.7513	3.1700e-003	0.0152	109.3690
Worker	0.0714	0.0513	0.5957	1.8500e-003	0.2171	1.1800e-003	0.2183	0.0576	1.0900e-003	0.0587		188.6629	188.6629	4.8000e-003	5.0000e-003	190.2740
<b>Total</b>	<b>0.0816</b>	<b>0.3066</b>	<b>0.6831</b>	<b>2.8200e-003</b>	<b>0.2478</b>	<b>3.8100e-003</b>	<b>0.2516</b>	<b>0.0664</b>	<b>3.6000e-003</b>	<b>0.0700</b>		<b>293.4141</b>	<b>293.4141</b>	<b>7.9700e-003</b>	<b>0.0202</b>	<b>299.6430</b>

**3.7 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>



Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5300e-003	0.2078	0.0765	9.3000e-004	0.0306	1.1900e-003	0.0318	8.8200e-003	1.1400e-003	9.9600e-003		100.8500	100.8500	3.0400e-003	0.0146	105.2848
Worker	0.0671	0.0457	0.5522	1.8000e-003	0.2171	1.1200e-003	0.2183	0.0576	1.0400e-003	0.0586		183.8047	183.8047	4.3400e-003	4.6400e-003	185.2956
<b>Total</b>	<b>0.0727</b>	<b>0.2534</b>	<b>0.6287</b>	<b>2.7300e-003</b>	<b>0.2478</b>	<b>2.3100e-003</b>	<b>0.2501</b>	<b>0.0664</b>	<b>2.1800e-003</b>	<b>0.0686</b>		<b>284.6547</b>	<b>284.6547</b>	<b>7.3800e-003</b>	<b>0.0193</b>	<b>290.5804</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5300e-003	0.2078	0.0765	9.3000e-004	0.0306	1.1900e-003	0.0318	8.8200e-003	1.1400e-003	9.9600e-003		100.8500	100.8500	3.0400e-003	0.0146	105.2848
Worker	0.0671	0.0457	0.5522	1.8000e-003	0.2171	1.1200e-003	0.2183	0.0576	1.0400e-003	0.0586		183.8047	183.8047	4.3400e-003	4.6400e-003	185.2956
<b>Total</b>	<b>0.0727</b>	<b>0.2534</b>	<b>0.6287</b>	<b>2.7300e-003</b>	<b>0.2478</b>	<b>2.3100e-003</b>	<b>0.2501</b>	<b>0.0664</b>	<b>2.1800e-003</b>	<b>0.0686</b>		<b>284.6547</b>	<b>284.6547</b>	<b>7.3800e-003</b>	<b>0.0193</b>	<b>290.5804</b>

**3.8 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>0.1917</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	8.0600e-003	0.0974	3.2000e-004	0.0383	2.0000e-004	0.0385	0.0102	1.8000e-004	0.0103		32.4361	32.4361	7.7000e-004	8.2000e-004	32.6992
<b>Total</b>	<b>0.0119</b>	<b>8.0600e-003</b>	<b>0.0974</b>	<b>3.2000e-004</b>	<b>0.0383</b>	<b>2.0000e-004</b>	<b>0.0385</b>	<b>0.0102</b>	<b>1.8000e-004</b>	<b>0.0103</b>		<b>32.4361</b>	<b>32.4361</b>	<b>7.7000e-004</b>	<b>8.2000e-004</b>	<b>32.6992</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>0.1917</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	8.0600e-003	0.0974	3.2000e-004	0.0383	2.0000e-004	0.0385	0.0102	1.8000e-004	0.0103		32.4361	32.4361	7.7000e-004	8.2000e-004	32.6992
<b>Total</b>	<b>0.0119</b>	<b>8.0600e-003</b>	<b>0.0974</b>	<b>3.2000e-004</b>	<b>0.0383</b>	<b>2.0000e-004</b>	<b>0.0385</b>	<b>0.0102</b>	<b>1.8000e-004</b>	<b>0.0103</b>		<b>32.4361</b>	<b>32.4361</b>	<b>7.7000e-004</b>	<b>8.2000e-004</b>	<b>32.6992</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4941	1.8059	15.0695	0.0324	3.5835	0.0251	3.6087	0.9546	0.0235	0.9780		3,356.2307	3,356.2307	0.2261	0.1456	3,405.2604
Unmitigated	1.4941	1.8059	15.0695	0.0324	3.5835	0.0251	3.6087	0.9546	0.0235	0.9780		3,356.2307	3,356.2307	0.2261	0.1456	3,405.2604

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	460.00	460.00	460.00	1,702,304	1,702,304
Total	460.00	460.00	460.00	1,702,304	1,702,304

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
NaturalGas Unmitigated	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	3564.93	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
<b>Total</b>		<b>0.0385</b>	<b>0.3285</b>	<b>0.1398</b>	<b>2.1000e-003</b>		<b>0.0266</b>	<b>0.0266</b>		<b>0.0266</b>	<b>0.0266</b>		<b>419.4035</b>	<b>419.4035</b>	<b>8.0400e-003</b>	<b>7.6900e-003</b>	<b>421.8958</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	3.56493	0.0385	0.3285	0.1398	2.1000e-003		0.0266	0.0266		0.0266	0.0266		419.4035	419.4035	8.0400e-003	7.6900e-003	421.8958
<b>Total</b>		<b>0.0385</b>	<b>0.3285</b>	<b>0.1398</b>	<b>2.1000e-003</b>		<b>0.0266</b>	<b>0.0266</b>		<b>0.0266</b>	<b>0.0266</b>		<b>419.4035</b>	<b>419.4035</b>	<b>8.0400e-003</b>	<b>7.6900e-003</b>	<b>421.8958</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973
Unmitigated	1.8860	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	6.8334	6.8334	6.5600e-003	0.0000	6.9973



Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7719					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1141	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210		6.8334	6.8334	6.5600e-003		6.9973
<b>Total</b>	<b>1.8860</b>	<b>0.0437</b>	<b>3.7935</b>	<b>2.0000e-004</b>		<b>0.0210</b>	<b>0.0210</b>		<b>0.0210</b>	<b>0.0210</b>	<b>0.0000</b>	<b>6.8334</b>	<b>6.8334</b>	<b>6.5600e-003</b>	<b>0.0000</b>	<b>6.9973</b>

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7719					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1141	0.0437	3.7935	2.0000e-004		0.0210	0.0210		0.0210	0.0210		6.8334	6.8334	6.5600e-003		6.9973
<b>Total</b>	<b>1.8860</b>	<b>0.0437</b>	<b>3.7935</b>	<b>2.0000e-004</b>		<b>0.0210</b>	<b>0.0210</b>		<b>0.0210</b>	<b>0.0210</b>	<b>0.0000</b>	<b>6.8334</b>	<b>6.8334</b>	<b>6.5600e-003</b>	<b>0.0000</b>	<b>6.9973</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Camino Largo Residential Development - San Diego County APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

---

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

---

# Appendix B

---

## Energy Calculation Sheets

**Construction Energy Use**

Off-Road Construction Equipment Energy Use												
Phase	Equipment	Fuel	HP	Load Factor	Equipment Count	Hours/Day	Work Days	Gallons /HP-Hr	Gallons /Hour	Gallons /Day	Total Gallons	Total kBtu
Demolition	Concrete/Industrial Saws	Diesel	81	0.73	1	8.0	10	0.0417575	2.46912	19.753	197.5	27,457
	Excavators	Diesel	158	0.38	3	8.0	10	0.0197573	1.18623	28.469	284.7	39,573
	Rubber Tired Dozers	Diesel	247	0.4	2	8.0	10	0.0205133	2.02671	32.427	324.3	45,074
Site Preparation	Rubber Tired Dozers	Diesel	247	0.4	3	8.0	131	0.0205133	2.02671	48.641	6,372.0	885,706
	Tractors/Loaders/Backhoes	Diesel	97	0.37	4	8.0	131	0.0191274	0.68648	21.967	2,877.7	400,005
	Excavators	Diesel	158	0.38	1	8.0	22	0.0197573	1.18623	9.490	208.8	29,020
Grading	Graders	Diesel	187	0.41	1	8.0	22	0.0211437	1.62109	12.969	285.3	39,658
	Rubber Tired Dozers	Diesel	247	0.4	1	8.0	22	0.0205133	2.02671	16.214	356.7	49,581
	Tractors/Loaders/Backhoes	Diesel	97	0.37	3	8.0	22	0.0191274	0.68648	16.476	362.5	50,382
Underground Utilities	Excavators	Diesel	158	0.38	1	8.0	43	0.0197573	1.18623	9.490	408.1	56,721
	Plate Compactors	Diesel	8	0.43	1	4.0	43	0.0246029	0.08463	0.339	14.6	2,023
	Rough Terrain Forklifts	Diesel	100	0.4	1	4.0	43	0.0208047	0.83219	3.329	143.1	19,896
	Rubber Tired Loaders	Diesel	203	0.36	1	8.0	43	0.0186583	1.36355	10.908	469.1	65,199
	Trenchers	Diesel	78	0.5	1	8.0	43	0.0417575	1.62854	13.028	560.2	77,870
	Tractors/Loaders/Backhoes	Diesel	97	0.37	3	8.0	43	0.0191274	0.68648	16.476	708.4	98,475
Paving	Pavers	Diesel	130	0.42	2	8.0	10	0.0215272	1.17539	18.806	188.1	26,141
	Paving Equipment	Diesel	132	0.36	2	8.0	10	0.0183326	0.87116	13.939	139.4	19,375
	Rollers	Diesel	80	0.38	2	8.0	10	0.0194042	0.58989	9.438	94.4	13,119
Building Construction	Cranes	Diesel	231	0.29	1	7.0	129	0.0148849	0.99714	6.980	900.4	125,158
	Forklifts	Diesel	89	0.2	3	8.0	129	0.0103806	0.18478	4.435	572.1	79,517
	Generator Sets	Diesel	84	0.74	1	7.0	129	0.0154785	0.96214	6.735	868.8	120,765
	Tractors/Loaders/Backhoes	Diesel	97	0.37	3	8.0	129	0.0191274	0.68648	16.476	2,125.3	295,424
	Welders	Diesel	46	0.45	1	8.0	129	0.0258535	0.53517	4.281	552.3	76,769
AWTF Architectural Coating	Air Compressors	Diesel	78	0.48	1	6.0	20	0.0154785	0.57951	3.477	69.5	9,666
<b>Project Construction Off-Road Total</b>											<b>19,083.3</b>	<b>2,652,573</b>

On-Road Construction Energy Use												
Phase	Trip Type (Fleet Mix)	Trips	Distance (miles)	Work Days	Total VMT	gallons diesel/VMT	Total diesel gallons	gallons gas/VMT	Total gasoline gallons	Total kBtu		
Demolition	Worker (LDA, LDT1, LDT2)	15	16.8	10	2520.0	0.000224116	0.56	0.034108294	85.95	10,737		
	Hauling (HHDT)	48	20	-	960.0	0.154145714	147.98	0.000267758	0.26	20,601		
Site Preparation	Worker (LDA, LDT1, LDT2)	18	16.8	131	39614.4	0.000224116	8.88	0.034108294	1,351.18	168,780		
	Hauling (HHDT)	0	20	-	0.0	0.154145714	0.00	0.000267758	-	-		
Grading	Worker (LDA, LDT1, LDT2)	15	16.8	22	5544.0	0.000224116	1.24	0.034108294	189.10	23,621		
	Hauling (HHDT)	5516	20	-	110320.0	0.154145714	17005.36	0.000267758	29.54	2,367,407		
Underground Utilities	Worker (LDA, LDT1, LDT2)	20	16.8	43	14448.0	0.000224116	3.24	0.034108294	492.80	61,557		
	Hauling (HHDT)	0	0	-	0.0	0.154145714	0.00	0.000267758	-	-		
Paving	Worker (LDA, LDT1, LDT2)	15	16.8	10	2520.0	0.000224116	0.56	0.034108294	85.95	10,737		
Building Construction	Worker (LDA, LDT1, LDT2)	17	16.8	129	36842.4	0.000224116	8.26	0.034108294	1,256.63	156,970		
	Vendor (HHDT, MHD)	5	6.6	129	4257.0	0.126423505	538.18	0.013051900	55.56	81,697		
AWTF Architectural Coating	Worker (LDA, LDT1, LDT2)	3	16.8	20	1008.0	0.000224116	0.23	0.034108294	34.38	4,295		
<b>Project Construction On-Road Total</b>						<b>218033.8</b>	<b>17714.5</b>	<b>3581.3</b>	<b>2906401.5</b>			

Construction Energy Summary			
Source	Gallons Diesel	Gallons Gas	kBtu
Off-Road Construction Equipment	19,083		2,652,573
On-Road Construction Traffic	17,714	3,581	2,906,402
<b>Project Construction Total</b>	<b>36,798</b>	<b>3,581</b>	<b>5,558,974</b>

**Notes:**

1. Off-road equipment types and horsepower from CalEEMod defaults.
2. Off-road equipment count and hours from CalEEMod for the AQ/GHG report.
3. Off-road fuel consumption factors from CARB OFFROAD2017- ORION Web Database, for San Diego Ccounty, aggregate model years. <https://www.arb.ca.gov/orion/>
4. On-road fleet mix and trip distances from CalEEMod for the AQ/GHG report.
5. On-road fuel consumption factors weighted average for fleet mix from CARB EMFAC2107, for San Diego Ccounty, aggregate model years, aggregate speeds. <https://www.arb.ca.gov/emfac/2017/>.
6. 1 Gallon of diesel = 139 kBtu; 1 gallon of gasoline = 124 kBtu.

## 2019 Title 24 Minimum Photovoltaic Requirement Calculation

“ten(10) structures at 2129 SF gross, seventeen (17) structures at 2236 SF gross, and nineteen (19) structures at 2374 SF gross”

CFA (SF)	104,408
NDwell	46
CEC Climate Zone	13
Adjustment factor A	0.572
Adjustment factor B	1.15
Capacity Factor	20%

DU	sq ft	totals
10	2129	21290
17	2236	38012
19	2374	45106

Total = 104408

<b>kW<sub>PV</sub></b>	<b>112.6</b>
------------------------	--------------

<b>kWhr</b>	<b>197,313</b>
-------------	----------------

2019 Title 24 Residential Photovoltaic Requirement §150.1(c)14

$$\text{kW}_{\text{PV}} \text{ required} = (\text{CFA} \times \text{A}) / 1000 + (\text{NDwell} \times \text{B})$$

Where:

kW<sub>PV</sub> = kWdc size of the PV system

CFA = Conditioned floor area

NDwell = Number of dwelling units

A = Adjustment factor from Table 7-1

B = Dwelling adjustment factor from Table 7-1

$$\text{Annual kWhr} = \text{kW}_{\text{PV}} \times 24 \text{ hours/day} \times 365 \text{ days/year} \times \text{CF}$$

Where CF is a capacity factor which accounts for climate, daylight hours, roof pitch and orientation, and transmission loss.

For typical California residential systems, the CF can range between 17% and 22.5%. A CF of 20% was used in the project calculations.

## Annual Operational Energy Use

<b>VMT</b>
1,702,304 From CALEEMOD

On-Road Operational Energy Use						
Category	Mix	Diesel		Gasoline		kBtu
		Gallons/ VMT	Gallons	Gallons/VMT	Gallons	
LDA	55.7888%	0.000243	230.8	0.0298325	28,331.7	3,545,221
LDT1	6.2607%	0.000013	1.3	0.0298325	3,179.4	394,434
LDT2	17.8921%	0.000220	67.0	0.0379636	11,562.9	1,443,109
MDV	11.9031%	0.001045	211.8	0.0449839	9,115.0	1,159,700
LHDT1	2.4112%	0.026526	1,088.8	0.0576826	2,367.6	444,930
LHDT2	0.6200%	0.041309	436.0	0.0401842	424.1	113,193
MHDT	0.0873%	0.084057	125.0	0.0293673	43.7	22,786
HHDT	0.6266%	0.144513	1,541.5	0.0002511	2.7	214,597
OBUS	0.0708%	0.060935	73.4	0.1066034	128.5	26,140
UBUS	0.0566%	0.000000	0.0	0.1721387	165.9	20,566
MCY	2.8949%	-	0.0	1.0479377	51,642.4	6,403,653
SBUS	0.0971%	0.101327	167.5	0.0182740	30.2	27,026
MH	0.4949%	0.028575	240.7	0.1467278	1,236.1	186,744
<b>Annual Total</b>			<b>4,183.9</b>		<b>108,230.1</b>	<b>14,002,100</b>

Electricity and Natural Gas			
Type	Source	kWhr	kBtu
Natural Gas	Hot Water, Heating	-	1,301,200
Electricity	Buildings, Lighting	169,061	576,860
<b>Total</b>		<b>169,061</b>	<b>1,878,060</b>

Water and Wastewater Energy Use							
Water Use (Mgal)		Electricity Intensity Factors (kWhr/Mgal)				kWhr	kBtu
Indoor	Outdoor	Supply	Treat Water	Distribute	Treat Wastewater		
2.997085	1.889466	9,727	111	1,272	1,911	57,900	197,564

Operation Total		
Energy Type	Quantity	kBtu
Gasoline (Gallons)	108,230	13,420,535
Diesel (Gallons)	4,184	581,565
Natural Gas (kBtu)	1,301,200	1,301,200
Electricity (kWhr)	226,961	2,075,624
<b>Total</b>		<b>17,378,925</b>

### Notes:

1. VMT, electricity, natural gas, and water use from project CalEEMod annual output.
2. Fleet mix from CalEEMod default for San Diego County
3. Fuel consumption factors weighted average for fleet mix from CARB EMFAC2107, for San Diego, aggregate model years for 2024, aggregate speeds. <https://www.arb.ca.gov/emfac/2017/>.
4. Water electricity intensity factors from CalEEMod default for San Diego County.
5. 1 Gallon of diesel = 139 kBtu; 1 gallon of gasoline = 124 kBtu; 1 kWhr = 3.412142 kBtu.
6. Electricity use includes reduction from on-site photovoltaic generation.

Model Output: OFFROAD2017 (v1.0.1) Emissions Inventory

Region Type: County

Region: San Diego

Calendar Year: 2022

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2017 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	Fuel_gpy	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	Gallons/hp-hour
San Diego	2022	ConstMin - Cranes	Aggregate	300	Diesel	131378.96	40011.23	84.88	8826350.23	0.01488486
San Diego	2022	ConstMin - Excavators	Aggregate	175	Diesel	390620.20	135389.45	228.89	19770957.54	0.01975727
San Diego	2022	ConstMin - Graders	Aggregate	300	Diesel	503156.02	109922.67	144.76	23796957.47	0.02114371
San Diego	2022	ConstMin - Pavers	Aggregate	175	Diesel	51639.14	15192.30	39.36	2398785.31	0.02152721
San Diego	2022	ConstMin - Paving Equipment	Aggregate	175	Diesel	21950.29	8245.97	17.92	1197337.91	0.01833257
San Diego	2022	ConstMin - Rollers	Aggregate	100	Diesel	124614.28	73567.69	221.70	6422022.25	0.01940421
San Diego	2022	ConstMin - Rough Terrain Forklifts	Aggregate	100	Diesel	319446.69	159463.84	564.43	15354528.95	0.02080472
San Diego	2022	ConstMin - Rubber Tired Dozers	Aggregate	300	Diesel	17301.60	3812.48	5.43	843434.30	0.02051328
San Diego	2022	ConstMin - Rubber Tired Loaders	Aggregate	300	Diesel	933658.54	239776.14	224.91	50039882.29	0.01865829
San Diego	2022	ConstMin - Tractors/Loaders/Backhoes	Aggregate	100	Diesel	1914739.32	1203674.54	1922.37	100104539.93	0.01912740
San Diego	2022	Industrial - Forklifts	Aggregate	100	Diesel	544150.42	635834.72	834.15	52419731.09	0.01038064
San Diego	2022	OFF - ConstMin - Concrete/Industrial Saws	Aggregate	50	Diesel	3566.05	2587.85	4.46	85399.05	0.04175749
San Diego	2022	OFF - ConstMin - Plate Compactors	Aggregate	25	Diesel	4839.90	24590.05	40.95	196720.40	0.02460294
San Diego	2022	OFF - Light Commercial - Welders	Aggregate	50	Diesel	341994.05	287568.9	447.76	13228169.4	0.02585347
San Diego	2022	Portable Equipment - Non-Rental Compressor	Aggregate	100	Diesel	20277.178	15412.53639	38.30483734	1310022.789	0.01547849
San Diego	2022	Portable Equipment - Non-Rental Generator	Aggregate	100	Diesel	101387.4	67002.09366	49.91236381	6550211.837	0.01547849



Source: EMFAC2017 (v1.0.3) Emissions Inventory  
Region Type: County  
Region: San Diego  
Calendar Year: 2022  
Season: Annual  
Vehicle Classification: EMFAC2007 Categories  
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

2022 Construction Fleet Fuel Consumption									
Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption (1000 Gal.)	Gallons/VMT	
<b>Worker (LDA, LDT1, LDT2)</b>									
San Diego	2022	LDA	Aggregated	Aggregated	DSL	652152.32	13.98689813		
San Diego	2022	LDT1	Aggregated	Aggregated	DSL	2054.346	0.09031383		
San Diego	2022	LDT2	Aggregated	Aggregated	DSL	128253.98	3.722637831		
						<b>Diesel Total</b>	<b>782460.65</b>	<b>17.7998498</b>	<b>0.000224116</b>
San Diego	2022	LDA	Aggregated	Aggregated	GAS	55007781	1756.768474		
San Diego	2022	LDT1	Aggregated	Aggregated	GAS	5914590.8	225.5647168		
San Diego	2022	LDT2	Aggregated	Aggregated	GAS	17717581	726.6298291		
						<b>Gas Total</b>	<b>78639952</b>	<b>2708.96302</b>	<b>0.034108294</b>
						<b>Total VMT</b>	<b>79422413</b>		
<b>Vendor (HHDT, MHDT)</b>									
San Diego	2022	HHDT	Aggregated	Aggregated	DSL	1903709.6	293.7690323		
San Diego	2022	MHDT	Aggregated	Aggregated	DSL	1194911.6	124.4046627		
						<b>Diesel total</b>	<b>3098621.2</b>	<b>418.1736951</b>	<b>0.126423505</b>
San Diego	2022	HHDT	Aggregated	Aggregated	GAS	2078.2646	0.510290016		
San Diego	2022	MHDT	Aggregated	Aggregated	GAS	207021.61	42.66175414		
						<b>Gas Total</b>	<b>209099.88</b>	<b>43.17204416</b>	<b>0.0130519</b>
						<b>Total VMT</b>	<b>3307721.1</b>		
<b>Hauling (HHDT)</b>									
San Diego	2022	HHDT	Aggregated	Aggregated	DSL	1903709.6	293.7690323	<b>0.154145714</b>	
San Diego	2022	HHDT	Aggregated	Aggregated	GAS	2078.2646	0.510290016	<b>0.000267758</b>	
						<b>Total VMT</b>	<b>1905787.9</b>		

Source: EMFAC2017 (v1.0.3) Emissions Inventory  
Region Type: County  
Region: San Diego  
Calendar Year: 2024  
Season: Annual  
Vehicle Classification: EMFAC2007 Categories  
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

2024 Operational Fleet Fuel Consumption								
Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption (1000 Gal.)	Gallons/VMT
<b>LDA</b>								
San Diego	2024	LDA	Aggregated	Aggregated	GAS	56261566	1698.699709	<b>0.029832453</b>
San Diego	2024	LDA	Aggregated	Aggregated	DSL	679769	13.84063887	<b>0.000243068</b>
						<b>Total VMT</b>	<b>56941335</b>	
<b>LDT1</b>								
San Diego	2024	LDT1	Aggregated	Aggregated	GAS	5946393.2	215.5186457	<b>0.036232999</b>
San Diego	2024	LDT1	Aggregated	Aggregated	DSL	1738.3735	0.074416324	<b>0.000012511</b>
						<b>Total VMT</b>	<b>5948131.6</b>	
<b>LDT2</b>								
San Diego	2024	LDT2	Aggregated	Aggregated	GAS	17427995	666.9735591	<b>0.037963589</b>
San Diego	2024	LDT2	Aggregated	Aggregated	DSL	140774.84	3.864918477	<b>0.000219988</b>
						<b>Total VMT</b>	<b>17568770</b>	
<b>MDV</b>								
San Diego	2024	MDV	Aggregated	Aggregated	GAS	11271527	522.198155	<b>0.044983916</b>
San Diego	2024	MDV	Aggregated	Aggregated	DSL	337025.28	12.13645534	<b>0.001045475</b>
						<b>Total VMT</b>	<b>11608553</b>	
<b>LHDT1</b>								
San Diego	2024	LHDT1	Aggregated	Aggregated	GAS	1225429.8	141.4935185	<b>0.057682631</b>
San Diego	2024	LHDT1	Aggregated	Aggregated	DSL	1227536	65.0681503	<b>0.026526318</b>
						<b>Total VMT</b>	<b>2452965.8</b>	
<b>LHDT2</b>								
San Diego	2024	LHDT2	Aggregated	Aggregated	GAS	196903.05	26.01216243	<b>0.040184201</b>
San Diego	2024	LHDT2	Aggregated	Aggregated	DSL	450420.07	26.74045115	<b>0.041309279</b>
						<b>Total VMT</b>	<b>647323.11</b>	
<b>MHDT</b>								
San Diego	2024	MHDT	Aggregated	Aggregated	GAS	218405.97	43.5150898	<b>0.029367277</b>
San Diego	2024	MHDT	Aggregated	Aggregated	DSL	1263348.4	124.5520637	<b>0.084057162</b>
						<b>Total VMT</b>	<b>1481754.3</b>	
<b>HHDT</b>								
San Diego	2024	HHDT	Aggregated	Aggregated	GAS	2126.1259	0.496339656	<b>0.000251135</b>
San Diego	2024	HHDT	Aggregated	Aggregated	DSL	1974261.1	285.6145571	<b>0.144513462</b>
						<b>Total VMT</b>	<b>1976387.2</b>	
<b>OBUS</b>								
San Diego	2024	OBUS	Aggregated	Aggregated	GAS	61109.536	12.47761195	<b>0.10660341</b>
San Diego	2024	OBUS	Aggregated	Aggregated	DSL	55937.489	7.132302222	<b>0.060935357</b>
						<b>Total VMT</b>	<b>117047.02</b>	
<b>UBUS</b>								
San Diego	2024	UBUS	Aggregated	Aggregated	GAS	44934.808	7.735020888	<b>0.121138731</b>
San Diego	2024	UBUS	Aggregated	Aggregated	DSL	0	0	<b>0</b>
						<b>Total VMT</b>	<b>44934.808</b>	
<b>MCY</b>								
San Diego	2024	MCY	Aggregated	Aggregated	GAS	625860.67	17.18055872	<b>1.047937677</b>
<b>SBUS</b>								
San Diego	2024	SBUS	Aggregated	Aggregated	GAS	16394.638	1.659807647	<b>0.018274037</b>
San Diego	2024	SBUS	Aggregated	Aggregated	DSL	74434.098	9.203447996	<b>0.101327492</b>
						<b>Total VMT</b>	<b>90828.736</b>	
<b>MH</b>								
San Diego	2024	MH	Aggregated	Aggregated	GAS	85692.576	17.56052126	<b>0.14672783</b>
San Diego	2024	MH	Aggregated	Aggregated	DSL	33988.34	3.419919056	<b>0.028575308</b>
						<b>Total VMT</b>	<b>119680.92</b>	

# IS/MND Appendix B

---

## Biological Resources Due Dilligence

HELIX Environmental Planning, Inc.  
7578 El Cajon Boulevard  
La Mesa, CA 91942  
619.462.1515 tel  
619.462.0552 fax  
[www.helixepi.com](http://www.helixepi.com)



June 21, 2021

02951.00012.001

Don Fontana  
California West Communities  
5927 Priestly Drive, Suite 110  
Carlsbad, CA 92008

Subject: Biological Resources Due Diligence Assessment of the Camino Largo Property

Dear Mr. Fontana:

At the request of California West Communities (Client), HELIX Environmental Planning, Inc. (HELIX) completed a biological due diligence assessment of the 9.3-acre Camino Largo Property (property or project site). The project site is comprised of Accessor Parcel Number (APN) 159-240-07 and is located at the northeast corner of North Santa Fe and Camino Largo, in the City of Vista (City), San Diego County.

The purpose of the assessment was to identify potential biological constraints to the development of the project site. This report provides a brief summary of the assessment results with a focus on the key biological constraints. Additional details can be provided if needed. This assessment only addresses biological constraints within APN 159-240-07 and does not include an assessment of any other off-site improvements should they be required by the project.

## **METHODS**

HELIX's biological resources due diligence assessment included the review of readily available information and a general biological survey of the project site. HELIX reviewed current and historical aerial imagery, topographic mapping, soils mapping, Multiple Species Conservation Program (MSCP) data, and other pertinent biological resources data. In addition, the following documents provided by the Client were also reviewed:

- Initial Study and Mitigated Negative Declaration PC6-056, City of Vista, County of San Diego, dated September 2015; and
- Conditions of Approval PC6-056 Camino Largo 8, no date.

No other documents were provided in the project files or located independently.

HELIX biologist Matthew Dimson completed the general biological survey on June 8, 2021. The survey was conducted on foot with the assistance of binoculars and a Global Positioning System unit. The survey included a habitat assessment for special status species, potential jurisdictional aquatic resources, and identification of other notable biological resources.

## RESULTS

### Property Location

The 9.3-acre property is generally located east of Interstate(I)- 5, west of I-15, and south of California State Route 78, in the City of Vista, San Diego County, California. Specifically, the property is situated on the northeast corner of North Santa Fe Avenue and Camino Largo between Taylor Street to the south and Osborn Street to the north. The proposed project described in the project Initial Study Mitigated Negative Declaration (ISMND) dated September 18, 2015, includes the development of eight lots of varying sizes from 1.04 acres to 1.33 acres into residential developments (City 2015). The property is not located within the coastal zone. The project is not with a Multiple Species Conservation Area. The property is also located outside of any USFWS-designated critical habitat.

### Existing Conditions Summary

The project site is characterized by a modest east-west trending ridge situated in the north central portion of the project site. Elevations on the project site range from 362 feet above mean sea level (amsl) at the top of the ridge to 296 amsl in the southwestern corner of the property adjacent to Camino Largo. Soil types on the project site include Placentia sandy loam, 2 to 9 percent slopes; Fallbrook sandy loam, 9 to 15 percent slopes; Bonsall sandy loam, 2 to 9 percent slopes, eroded; and Salinas clay loam, 2 to 9 percent slopes. The property is bordered to the north by agricultural fields and ranches, a single-family residence and undeveloped land to the south, single-family residences to the east, and Guajome Regional Park to the west.

Vegetation on the project site is limited to ornamental vegetation, including Eucalyptus (*Eucalyptus* sp.), Mexican fan palm (*Washingtonia robusta*), Canary Island date palm (*Phoenix canariensis*), and Peruvian pepper tree (*Schinus molle*) as well as non-native species and non-native grass, which is mowed on an annual basis. Historically, the site was used for agricultural production of row crops. More recently, the project site was used as a palm tree nursery. The frames of the hoop framed greenhouses are still present on the project site.

### Jurisdictional Aquatic Resources

According to the 2015 project ISMND, the project site does not support any riparian habitat or other natural communities nor wetlands identified by federal, state, regional, or local agencies, policies, or regulations (City 2015). The project ISMND notes the property's proximity to the Guajome Lake tributary and San Luis Rey River, which include sensitive riparian habitats, southern cottonwood/willow riparian forest and coastal valley freshwater marsh emergent wetland. Therefore, the project includes a mitigation measure to reduce indirect impacts to the sensitive habitat and potential indirect impacts to special status wildlife within the adjacent parcel to the south, which is described in further detail below.

## California Environmental Quality Act

As discussed above, the project applicant prepared an ISMND for the Camino Largo project (City 2015). No biological document was referenced in the project ISMND (City 2015).

Based on the project ISMND, candidate, sensitive, or special status plant or wildlife species are not expected to occur on the site due to the lack of suitable soils, habitat and the highly disturbed nature of the project site. HELIX verified these findings during the 2021 site visit. The project does not support any sensitive vegetation communities and therefore would not impact sensitive vegetation communities (City 2015). The 2021 site visit did note non-native grassland; however, the vegetation was disclosed in the 2015 ISMND and the lead agency did not require mitigation for impacts associated with this vegetation community. Generally, impacts to non-native grassland require 0.5:1 acre of mitigation.

Based on the project ISMND and the 2021 site visit, the project site does not contain any waters of the U.S. or state. Therefore, the project would not impact wetlands or other potentially jurisdictional waters, thus the project would not require wetland permits from the U.S. Army Corps of Engineers under Section 404 of the Clean Water Act (CWA) or the Regional Water Quality Control Board under Section 401 of the CWA, or a Streambed Alteration Agreement from the California Department of Fish and Wildlife.

Based on the project ISMND and the 2021 site visit, no sensitive plant or any animal species were observed, therefore no impacts to sensitive plant or animal species would occur. As a result, there are no habitat-related or species-specific mitigation requirements.

Potentially impacts to nesting birds was the only significant impact to biological resources identified in the ISMND and the only mitigation measures related to biological resources in the project documents. The mitigation measure is provided below, as taken from the project's Mitigation Monitoring and Reporting Program (City 2015).

## POTENTIAL BIOLOGICAL RESOURCES CONSTRAINTS

HELIX reviewed the project ISMND dated September 2015 and Conditions of Approval (COA) the following conditions relate to biological issues were noted:

### Mitigation Measures

- BR-1 If avoidance of construction activities during the avian breeding season (typically March 1 through August 31, but as early as January 1 for some raptors as determined by a Qualified Biological Monitor) is not feasible, the Applicant and/or Owner shall hire a Qualified Biological Monitor with experience in conducting breeding bird surveys to conduct weekly on-site bird surveys beginning 30 days prior to initiation of any construction activities (including, but not limited to, staging, grubbing and clearing). The weekly bird surveys shall be conducted to detect the nests of protected native birds and raptors occurring in suitable nesting habitat that could be disturbed during construction activities, and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (and/or within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of construction activities. The Qualified Biological Monitor shall

provide the City Planner with a summary report of the results of the recommended protective measures described above to document compliance with applicable State and federal laws pertaining to the protection of native birds.

If an active nest is located, construction activities within 300 feet of the bird nest (or within 500 feet for raptor nests) or otherwise as determined by the Qualified Biological Monitor, must be postponed until the nest is vacated and juveniles have fledged. and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the buffer of 300 feet (or 500 feet) between the construction activities and the nest. All contractors working on-site shall be instructed by the Qualified Biologist on the sensitivity of the area. The Qualified Biological Monitor shall immediately notify the City Planner if project activities damage active avian nests.

If the Qualified Biological Monitor determines that a narrower buffer between the project activities and observed active nests is warranted, he/she shall submit a written explanation to support this determination (e.g., species-specific information: ambient conditions and birds' habituation to them: etc.) to the City Planner, and upon request to the California Department of Fish & Wildlife. Based on the submitted information, the City Planner, in consultation with the Qualified Biological Monitor, will determine whether to allow the narrower buffer.

Though not a mitigation measure, the project ISMND includes the following measure regarding potential indirect impacts:

Construction of the proposed project could result in significant indirect temporary impacts to special-status wildlife from adverse "edge effects" on the sensitive habitat within the adjacent parcel to the south. Edge effects typically include dust, construction-related soil erosion and runoff, lighting, and construction-related noise. Dust control, erosion control, and water quality protection measures are addressed in the Air Quality and Hydrology and Water Quality sections of this document, and would be part of the Conditions of Project Approval. Potential impacts from lighting would not be significant, as addressed in the Aesthetics section of this IS/MND, as there are two street lights planned along the road that is required to meet the Zoning Ordinance. However, construction-related noise would be significant within approximately 500 feet of a raptor nest or within 300 feet of a nesting bird. However, with the implementation of Mitigation Measure BR-1 noted above, this impact would be reduced to less than significant levels.

### **Conditions of Approval (no date)**

- F.1.f. The applicant shall obtain any necessary permits and clearances from all public agencies having jurisdiction over the project due to its type, size, or location, including but not limited to the U. S. Army Corps of Engineers, California Department of Fish & Game, U. S. Fish and Wildlife Service and/or San Diego Regional Water Quality Control Board (including NPDES), San Diego County Health Department, prior to the issuance of grading permits.
- BR-1 If avoidance of construction activities during the avian breeding season (typically March 1 through August 31, but as early as January 1 for some raptors as determined by a Qualified Biological Monitor) is not feasible, the Applicant and/or Owner shall hire a Qualified Biological Monitor with experience in conducting breeding bird surveys to conduct weekly on-site bird

surveys beginning 30 days prior to initiation of any construction activities (including, but not limited to, staging, grubbing and clearing). The weekly bird surveys shall be conducted to detect the nests of protected native birds and raptors occurring in suitable nesting habitat that could be disturbed during construction activities, and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (and/or within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of construction activities. The Qualified Biological Monitor shall provide the City Planner with a summary report of the results of the recommended protective measures described above to document compliance with applicable State and federal laws pertaining to the protection of native birds.

If an active nest is located, construction activities within 300 feet of the bird nest (or within 500 feet for raptor nests) or otherwise as determined by the Qualified Biological Monitor, must be postponed until the nest is vacated and juveniles have fledged, and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the buffer of 300 feet (or 500 feet) between the construction activities and the nest. All contractors working on-site shall be instructed by the Qualified Biologist on the sensitivity of the area. The Qualified Biological Monitor shall immediately notify the City Planner if project activities damage active avian nests.

If the Qualified Biological Monitor determines that a narrower buffer between the project activities and observed active nests is warranted, he/she shall submit a written explanation to support this determination (e.g., species-specific information: ambient conditions and birds' habituation to them: etc.) to the City Planner, and upon request to the California Department of Fish & Wildlife. Based on the submitted information, the City Planner, in consultation with the Qualified Biological Monitor, will determine whether to allow the narrower buffer.

## CONCLUSION

In conclusion, the project site has the potential for nesting bird habitat, including raptor species. Therefore, any grading, brushing, or clearing conducted during the migratory bird season, March 1- August 31 (but as early as January 1 for raptor species), has the potential to impact birds. If grading, brushing, or clearing activities occur during the general bird breeding season, a qualified biologist must conduct nest surveys 30 days prior to the construction activities and conduct weekly surveys, with the last one occurring no later than three days prior to the initiation of construction activities.

## CLOSING

We appreciate the opportunity to provide you with this assessment. If you have questions, please contact Beth Martinez ([BethM@helixepi.com](mailto:BethM@helixepi.com)) or I at (619) 462-1515.

Sincerely,

  
Amy Lee  
Biologist

## REFERENCES

2015. City of Vista (City). Initial Study and Mitigated Negative Declaration PC6-056. September.



# IS/MND Appendix C

---

## Cultural Resources



# Camino Largo Subdivision

Addendum to  
Cultural Resources Survey and Assessment

December 2021 | 04911.00001.001

*Submitted to:*

**City of Vista**  
**Community Development Department**  
1200 Civic Center Drive  
Vista, California 92084-6275

*Prepared for:*

**California West Communities**  
5927 Priestly Drive, Suite 110  
Carlsbad, CA 92008

*Prepared by:*

---

Mary Robbins-Wade  
Cultural Resources Group Manager

**HELIX Environmental Planning, Inc.**  
7578 El Cajon Boulevard  
La Mesa, CA 91942

This page intentionally left blank

# TABLE OF CONTENTS

---

<b><u>Section</u></b>	<b><u>Page</u></b>
1.0 INTRODUCTION/BACKGROUND.....	1
2.0 2015 STUDY.....	1
3.0 2021 STUDY UPDATE.....	3
4.0 TRIBAL OUTREACH .....	3
4.1 In-Person Meetings.....	5
5.0 CONCLUSION.....	6
6.0 REFERENCES.....	7

## LIST OF APPENDICES

- A Native American Correspondence (confidential, bound separately; to be provided)

## LIST OF TABLES

<b><u>No.</u></b>	<b><u>Title</u></b>	<b><u>Page</u></b>
1	Native American Contact Program Responses .....	4

This page intentionally left blank

## 1.0 INTRODUCTION/BACKGROUND

The Camino Largo Residential Project (project) is located in the City of Vista (City) in northwestern San Diego County. The project site is northeast of the intersection of North Santa Fe Avenue and Camino Largo, north of Taylor Street, and south of Osborne Street, a short distance south of State Route 76. HELIX Environmental Planning, Inc. (HELIX) conducted a cultural resources study in 2015 as part of the proposed Camino Largo Subdivision Project (Robbins-Wade and Giletti 2015). That study, which is addressed in more detail below, was performed under an as-needed contract for cultural resources consulting services with the City's Community Development Department. The cultural resources study conducted by HELIX in January 2015 consisted of an archaeological survey and testing program, outreach to the Native American community, and review of historic maps and aerial photographs. As a result of that study, previously undocumented prehistoric resources were identified in the area of a previously recorded historic era resource (CA-SDI-14730); the resources were assessed as not significant under the California Environmental Quality Act (CEQA).

The current study by HELIX was conducted in 2021, as an update to the earlier study, and includes: obtaining an updated records search from the South Coastal Information Center (SCIC), a new search of the Sacred Lands File from the Native American Heritage Commission (NAHC), outreach to the Native American community, and survey of the project. The previously recorded cultural resource was noted during the October 2021 survey as essentially the same as it had been described.

## 2.0 2015 STUDY

HELIX conducted a cultural resources study for the proposed project in 2015. A records search was conducted at SCIC for the project area and a one-mile radius around it. Historic maps and aerial photographs were also reviewed, and HELIX contacted the Native American Heritage Commission (NAHC) for a search of its Sacred Lands File. The field survey for cultural resources was conducted in January 2015 by a HELIX archaeologist, a historian/historic archaeologist, and a Luiseño Native American monitor from Saving Sacred Sites. The project site was walked in parallel transects spaced 10 meters apart. Historic archaeological site CA-SDI-14730 (P-37-016187) was reidentified, and three previously undocumented prehistoric artifacts were noted during the survey and included under the same site number already assigned to the location. The project area has been subject to a great deal of past disturbance, due to decades of rural residential and agricultural use. Soils have been moved around within the project area, and the ground surface in portions of the property was obscured, due to ongoing nursery uses.

One archaeological site was previously recorded within the Camino Largo project area: CA-SDI-14730. CA-SDI-14730 was originally recorded in 1998 as a historic site of unknown age. The site record described the site as:

Concrete covered cobble house foundation, remnants of wood 1" tongue and groove floor held up by wood pilings; demolition debris consisting of plywood, metal sheeting, and metal pipes. Cobble and concrete retaining wall is located on the slope to the north of the house foundation. Adjacent reservoir (30' east of foundation) is also comprised of concrete covered cobble walls. It is unknown if a shed (approximately 125' southeast) is related to the foundation and reservoir. The dilapidated one room shed is constructed of plywood and sheet metal and set on small concrete blocks. The 1' wood floor boards

set on floor joists. Electricity was wired to the shed and a toilet and sink are inside. The last use of the building was apparently as a storage facility as hardened bags of cement and rolls of tar paper are still inside. A small concrete lined basin, perhaps a pond or trough is located 50' south of the foundation and reservoir [site record, on file at SCIC].

Subsequent to the fieldwork conducted by HELIX in January 2015, it was found that site P-37-029400 is the same resource as CA-SDI-14730 and that a historic study and evaluation had been completed for that resource, although the location for P-37-029400 on file at the SCIC is outside the Camino Largo project area, due to a mapping error. The 2015 HELIX report is on file at the SCIC, as is the report evaluating the historic resource recorded as P-37-029400.

A testing program was conducted on January 27, 2015, to determine the extent and nature of subsurface cultural deposits, if any. Testing included the collection of the three surface artifacts (two manos and one piece of debitage) and the excavation of four shovel test pits (STPs). Three STPs were placed in proximity to the surface artifacts noted; the fourth was located to provide continuity among all test units. Soils excavated were passed through 1/8-inch mesh rocker screens. Each STP was excavated to a minimum depth of 60 centimeters (cm). STP 1 was excavated to 70 cm in order to achieve two sterile levels; a flake was recovered in the 40- to 50-cm level. Two additional flakes were found, one each in STP 2 and STP 3. In all, two manos and four pieces of debitage were collected at the site. Due to the paucity of artifacts and general lack of subsurface cultural material, no test units were excavated. The 2015 report concluded:

The prehistoric component of CA-SDI-14730 contains little cultural material and has very limited research potential. As such, the site does not meet the criteria for nomination to the California Register and is not a significant resource. It must be noted that all areas of past cultural activity hold some significance to the Luiseño people [Robbins-Wade and Giletti 2015:20].

During the 2015 study, the historic period features were found essentially as previously recorded, with the addition of an area of butchered bone and the fact that the shed noted on the original site record is no longer standing; it is now a pile of wood and metal. Historic archaeologist Stephen Van Wormer noted the layout of the "reservoir" suggests it might instead have been a pool. One end of the structure is shallower than the other, with a steeply sloping bottom, which would not have been practical for a reservoir but would have been normal for a swimming pool. The 1998 historic report calls this feature a pool but notes that a swimming pool "in the days before modern health requirements often performed double-duty as a reservoir" (Gregory 1998:6).

The house and pool/reservoir are visible on historic aerial photographs as far back as 1938 ([historicaerials.com](http://historicaerials.com)). No structures are shown in the project area on tax factor aerial photographs from 1928, although there are structures close by on the east side of what is now North Santa Fe Avenue, in addition to the features of the Guajome Ranch House. A house appears on the property on the 1948 USGS map (7.5' San Marcos quadrangle), but no structures are visible here on the 1901 USGS topographic map (15' Escondido quadrangle), which was surveyed in 1891 and 1898. This information indicates a construction date of the house, and at least some of the associated features, as sometime during the 1930s. Given this date of construction, the house and associated features do not represent the pioneer farming phase of development in the area and are essentially modern. The report concluded that CA-SDI-14730 does not meet the criteria for a historical resource/significant resource under CEQA;

thus, impacts to it would not constitute significant effects. The historic-age residential property was assessed as not a significant resource.

No Traditional Cultural Resources (TCRs) were identified within or in the immediate vicinity of the project area during the 2015 study. Letters were sent to the contacts listed by the NAHC in January 2015. Written responses were received from the Pala Band of Mission Indians, the Pauma Band of Luiseño Indians, and the Rincon Band of Luiseño Indians (Rincon). The Pala Tribal Historic Preservation Office indicated that the project is within the boundaries of the territory that the tribe considers its Traditional Use Area. They recommended archaeological monitoring and requested to be given updated information as the project progresses. The Pauma Band responded that, although they are unaware of any specific cultural resources in the project vicinity, the Guajome area is culturally sensitive. They, too, recommended archaeological monitoring during any ground-disturbing activity. The Rincon Band indicated that the project area is within “Rincon’s specific area of Historic Interest” and noted the possibility of encountering human remains and associated artifacts; “all culturally associated findings are culturally significant to the Rincon people” (letter from Rose Duro, Rincon Culture Committee Chair, February 10, 2015). Rincon also requested that the Rincon Cultural Resources Department be afforded the opportunity to provide cultural monitors for any ground-disturbing activity.

The San Luis Rey Band of Mission Indians provided Native American monitors for all fieldwork through their monitoring entity, Saving Sacred Sites.

### 3.0 2021 STUDY UPDATE

In October 2021, HELIX obtained an updated records search at SCIC for the project site and a one-mile radius. The records search showed the only cultural resources recorded within the one-mile search radius since the records search for the 2015 report were those recorded and evaluated by HELIX for the project in 2015 (Robbins-Wade and Giletti 2015). While several reports have been filed for the search radius since the records search conducted for the previous study, the only one within or adjacent to the project site was the 2015 HELIX report.

A survey of the project was performed on October 11, 2021, by HELIX archaeologist Mary Villalobos, and Cami Mojado of Saving Sacred Sites, who served as the Native American monitor. CA-SDI-14730 was found to be in the same condition as it was during the 2015 study. Two newly identified isolated cultural items were identified and documented in the northern/central portion of the project; these included a quartz flake and a large *Ostrea spp.* shell, which were then recorded on a Department of Parks and Recreation (DPR) site form update. During a subsequent site visit on December 16, 2021, other shell was observed, but it was noted that the shell appears to be a fossil.

In-person meetings were held with HELIX and San Luis Rey and Rincon to discuss the Tribal sensitivity of the project and determine any measures to be taken to protect Tribal cultural resources within the project, as discussed below under Tribal Outreach.

### 4.0 TRIBAL OUTREACH

Tribal outreach efforts from the 2015 study resulted in responses from the Pala Band of Mission Indians, the Pauma Band of Luiseño Indians, and the Rincon Band of Luiseño Indians, as discussed above under



Section 2.0, *2015 Study*. All the tribes who responded indicated the cultural sensitivity of the area and recommended that tribal cultural monitors be present for any ground-disturbing activity.

For the current study update, HELIX contacted the NAHC for a Sacred Lands File search and a list of Native American contacts in October 2021. The Sacred Lands File search did not indicate the presence of Native American cultural resources in the immediate project area (see Confidential Appendix A, *Native American Correspondence*). Letters were sent to the contacts listed by the NAHC in November 2021 (see Confidential Appendix A). In addition, detailed project data was provided to both the San Luis Rey Band of Mission Indians and the Rincon Band of Luiseño Indians, based upon the results from both the previous and current studies. Responses were received from Rincon, San Luis Rey, the Pechanga Band of Indians, and the San Pasqual Band of Mission Indians (San Pasqual), as summarized below.

**Table 1**  
**NATIVE AMERICAN CONTACT PROGRAM RESPONSES**

Contact/Tribe	Response
San Luis Rey Band of Mission Indians	Responded on November 30, 2021, requesting to meet in person to discuss the project and Tribal sensitivity thereof. Meeting was held on December 2. Based on the cultural sensitivity of the area and the results of monitoring of other projects in the area, monitoring is recommended.
Rincon Band of Luiseño Indians	Responded on November 18, 2021 that the project is located within their specific area of historic interest. Requested a field visit, which was held on December 16, 2021. An email summarizing Rincon’s concerns was received on December 23, 2021. The project has the potential to impact TCRs, and CA-SDI-14730 should be assessed in the context of other recorded sites as possibly part of a larger resource. The proposed project is located within a known traditional Luiseño place and is connected with Luiseño beliefs and practices continued to this day.
Pechanga Band of Indians	Responded on December 16, 2021, stating that the project is situated within the Band’s ancestral territory and requesting consultation with the City, archaeological and Native American monitoring, and copies of any project documentation.
San Pasqual Band of Mission Indians	Responded on November 24, 2021, stating that while the project is located outside reservation boundaries, it is located within San Pasqual’s Traditional Use Area.

On November 18, 2021, Rincon responded that, “The identified location is within the Territory of the Luiseño people and is also within Rincon’s specific Area of Historic Interest (AHI)” (letter from Cheryl Madrigal, Tribal Historic Preservation Officer/Cultural Resources Manager, November 18, 2021). Further, the following was included in Rincon’s response:

After review of the provided documents and our internal information, the Band has specific concerns that the project may impact tangible Tribal Cultural Resources (TCRs), Traditional Cultural Landscapes (TCLs), and potential Traditional Cultural Properties (TCPs). Embedded in these resources and within the AHI are Rincon’s history, culture, and continuing traditional identity.

Based on the information provided above, the Rincon Band recommends conducting an archaeological/cultural resources study, to include an archeological record search and complete intensive survey of the property. Additionally, we ask that a professional Tribal

monitor from the Rincon Band to accompany the archaeologist during the survey. If the field investigation already concluded, we ask to be provided the opportunity to visit the project site to assess impacts to TCRs, TCLs, or TCPs. The Rincon Band further requests to consult directly with the lead agency regarding project impacts to cultural resources.

A copy of Rincon's written response was forwarded to the City of Vista for Assembly Bill (AB) 52 consultation purposes.

San Luis Rey responded in writing on November 30, 2021, requesting to meet in person to discuss the project and Tribal sensitivity thereof (letter from Cami Mojado, Cultural Resources Manager, November 30, 2021). San Luis Rey stated:

Our Tribe has intimate knowledge about the many discoveries made throughout the Project Area and is aware of cultural resource sites within close proximity to the proposed Project. We strongly urge caution in assessing the land encompassing the Project for any ground disturbing purposes, as well as incorporating the presence of a Luiseño Native American monitor during all ground disturbing activities (including but not limited to any and all boring activities) and cultural resource assessment surveys

San Luis Rey requested copies of any survey report prepared for the project and that a Luiseño monitor be present during the survey of the project. A copy of their written response was forwarded to the City.

The Pechanga Band of Indians responded in writing on December 16, 2021, stating that the project is located within the Tribe's ancestral territory and requesting government-to-government consultation with the City, monitoring by a qualified archaeologist and Tribal monitor from Pechanga, and copies of project documentation including grading plans, project reports, and site records pertaining to the project area (letter from Paul Macarro, Cultural Coordinator, December 16, 2021). A copy of their written response was forwarded to the City.

San Pasqual responded in writing on November 24, 2021, stating that while the project is located outside reservation boundaries, it is located within San Pasqual's Traditional Use Area (letter from Angelina Gutierrez on behalf of Desiree M. Whitman, Tribal Historic Preservation Officer, November 24, 2021). Further, San Pasqual's response included the following language:

...we would like to engage in consultation so that San Pasqual can have a voice in developing the measures that will be taken to protect these sites and mitigate any adverse impacts. We would appreciate being given access to any cultural resource reports that have been or will be generated during the environmental review process so we can contribute most effectively to the consultation process.

A copy of San Pasqual's written response was also forwarded to the City for consultation purposes.

## 4.1 IN-PERSON MEETINGS

HELIX Principal Investigator Mary Robbins-Wade met with Ms. Mojado on December 2, 2021, to discuss the project and potential cultural resources concerns. They discussed the numerous archaeological sites in the vicinity that are all part of the overall *Wahaumai* (Guajome) village complex. Ms. Mojado noted that monitoring at nearby projects, such as North Coast Church and Vista Sports Park, were positive for cultural resources. Thus, it is anticipated that cultural resources would be encountered during ground-

disturbing activities for the Camino Largo project, and monitoring by an archaeologist and a tribal cultural monitor is recommended.

Ms. Robbins-Wade met with Rincon Tribal Historic Preservation Officer Cheryl Madrigal at the project site on December 16, 2021, to walk the site and discuss the cultural sensitivity of the area. They discussed the location of the project site within the larger landscape of the prehistoric/ethnohistoric village of *Wahaumai* and the potential for buried cultural resources that could not be seen during the surveys. Following the field visit, Rincon provided a letter via email summarizing the Tribe's concerns.

The Tribe is concerned that the project has potential to impact Tribal Cultural Resources and potential historic properties with traditional property significance. The proposed project is located within a known traditional Luiseño place and is connected with Luiseno beliefs and practices continued to this day. In particular, the Tribe is concerned with the pre-contact component of CA-SDI-14730, which consist of three pre-contact artifacts that were noted in the 2015 survey. The Tribe asks that these cultural materials will be reviewed and assessed in context to the previously recorded archaeological sites and isolates as we believe there is potential that this site is part of a larger historic property.

Rincon also provided mitigation language that will be forwarded to City staff. The mitigation language provided covers standard mitigation monitoring procedures and protocols.

## 5.0 CONCLUSION

An updated cultural resources study performed for the project has determined that recommendations provided by HELIX in 2015 resulting from a survey of the project and testing of site CA-SDI-14730 remain valid in terms of archaeology; however, the previous study did not fully consider tribal cultural resources. While the current survey and the previous study found that the site was ineligible for listing in the CRHR and does not qualify as a significant resource, due to its limited research potential, the association of the site with the overall cultural landscape must be revisited to address the potential significance as a TCR. This will be addressed during the AB 52 consultation between the City and consulting Tribes. As such, the monitoring recommendations made for the project in HELIX's 2015 report remain valid. An archaeologist and a Native American monitor should be on-site for all ground-disturbing activity, including brushing/ grubbing, grading, trenching, etc., in areas where there is a reasonable expectation of encountering cultural material (e.g., not in formational deposits). If cultural material is encountered, the archaeological and Native American monitors will have the authority to temporarily halt or redirect grading and other ground-disturbing activity while the features and/or artifacts are assessed, and appropriate mitigation measures are designed and implemented if necessary. In the event of a discovery, significance assessments and mitigation measures will be developed in consultation among the archaeological consultant, the Native American monitors, and City staff.

Monitoring requirements and mitigation measures to be implemented in the event of an inadvertent discovery of cultural resources during the monitoring are detailed in the Initial Study/Mitigated Negative Declaration for the project.

## 6.0 REFERENCES

Gregory, Tim

1998 *Historic Resources Technical Report: Fourteen Santa Vista View Gardens Project Site (2123 North Santa Fe Avenue), Vista, California*. The Building Biographer, Altadena, CA. Report on file at South Coastal Information Center, San Diego State University.

Robbins-Wade, Mary, and Andrew Giletti

2016 *Cultural Resources Survey and Assessment, Camino Largo Project, Vista, San Diego County, California, PC6-056*. HELIX Environmental Planning, Inc., La Mesa, CA. Report prepared for and submitted to the City of Vista Community Development Department. Report on file at South Coastal Information Center, San Diego State University.

# IS/MND Appendix D

---

## Geotechnical Due Diligence



Project No. G2721-11-02  
May 17, 2021

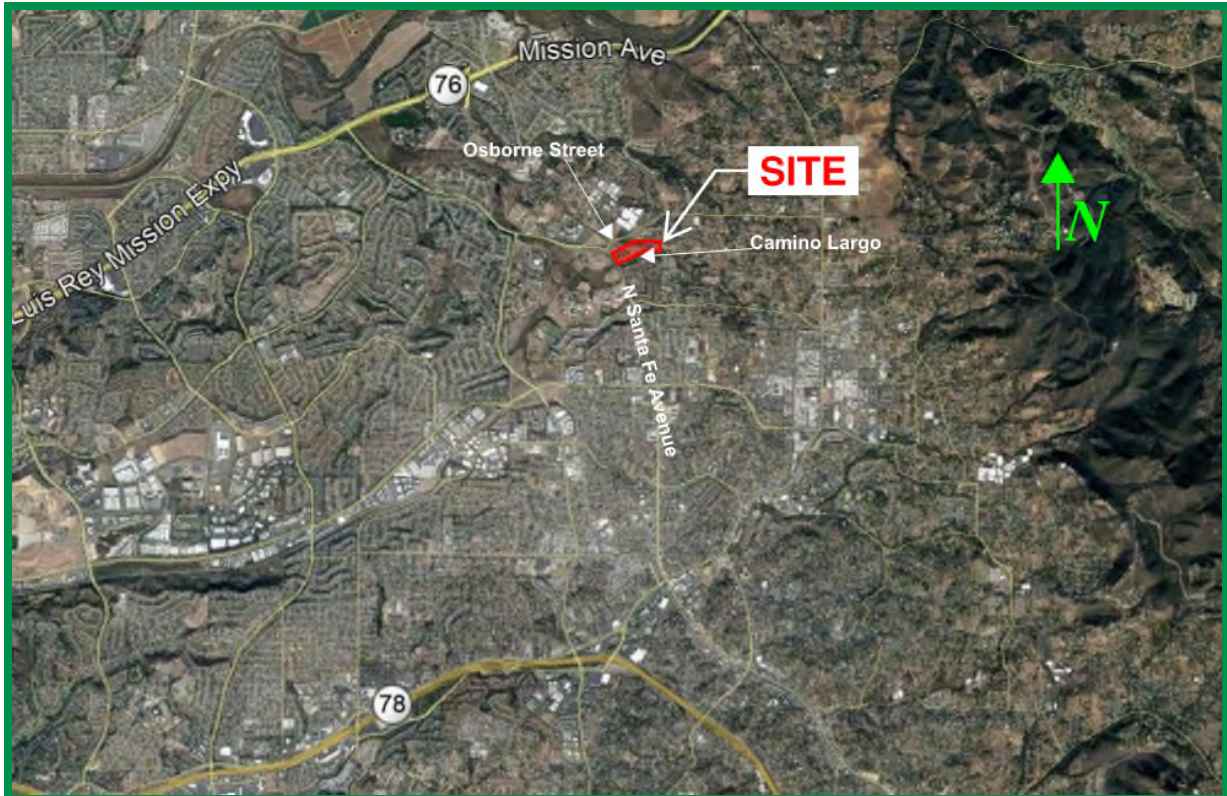
California West Communities  
5927 Priestly Drive, Suite 110  
Carlsbad, California 92008

Attention: Mr. Guy Oliver

Subject: GEOTECHNICAL DUE DILIGENCE REVIEW  
CAMINO LARGO  
COUNTY OF SAN DIEGO, CALIFORNIA

Dear Mr. Oliver:

In accordance with your authorization of our Proposal LG-21203 dated April 20, 2021, we are pleased to submit our geotechnical due diligence review for development of the Camino Largo project, a proposed single-family residential subdivision. The roughly 9.3-acre site is located east of N Santa Fe Avenue, north of Camino Largo and south of Osborne Street and located in the County of San Diego on the border with the City of Vista, California as shown on the Vicinity Map.



Vicinity Map

Based on review of the referenced plans, 48 single-family residential lots will be constructed with private streets, tot lot, detention basins, supporting utilities, and landscaping. The Camino Largo roadway will be improved and will provide access the proposed lots. To aid in preparing this letter, we reviewed the following reports and plans:

1. *Lot Study for Camino Largo, California West*, prepared by BHA, Inc., dated April 9, 2021.
2. *Geotechnical Update Report, Proposed 8-Lot Subdivision, Tentative Subdivision Map PC No. 6-056/2-112, Camino Largo, Vista, California*, prepared by Vinje & Middleton Engineering, Inc., dated July 9, 2012 (Job #12-183-P)
3. *Geotechnical Update Report and Grading Plan Review, Proposed 8-Lot Subdivision North Santa Fe Avenue, Vista, California (APN 159-240-07)*, prepared by Vinje & Middleton Engineering, Inc., dated April 18, 2008 (Job #08-197-P)
4. *Preliminary Geotechnical Investigation, Undeveloped Hillside Terrain, 2123 North Santa Fe Avenue, Vista California*, prepared by Vinje & Middleton Engineering, Inc., dated July 29, 1997 (Job 97-190-P)

### **PROJECT AND SITE DESCRIPTION**

The site is currently occupied by a palm tree nursery in the western half of the site. The central and eastern portion of the site is currently undeveloped covered by grass and some trees. An abandoned concrete lined reservoir is present in the central portion of the site that was fed by wells south of the property and used for water storage by previous owners. Several ancillary structures exist in the western portion of the site to support the nursery. Abandoned vehicles and abandoned structure foundations are present at various locations across the site. The site is moderately sloping away from a north central high point. Elevations on the site range from a high of 361 feet Mean Sea Level (MSL) on north central lots to 308 feet MSL at the southeastern limits and 295 feet MSL at the southwestern limits. The Existing Site Map shows the current property configuration.





**Existing Site Map**

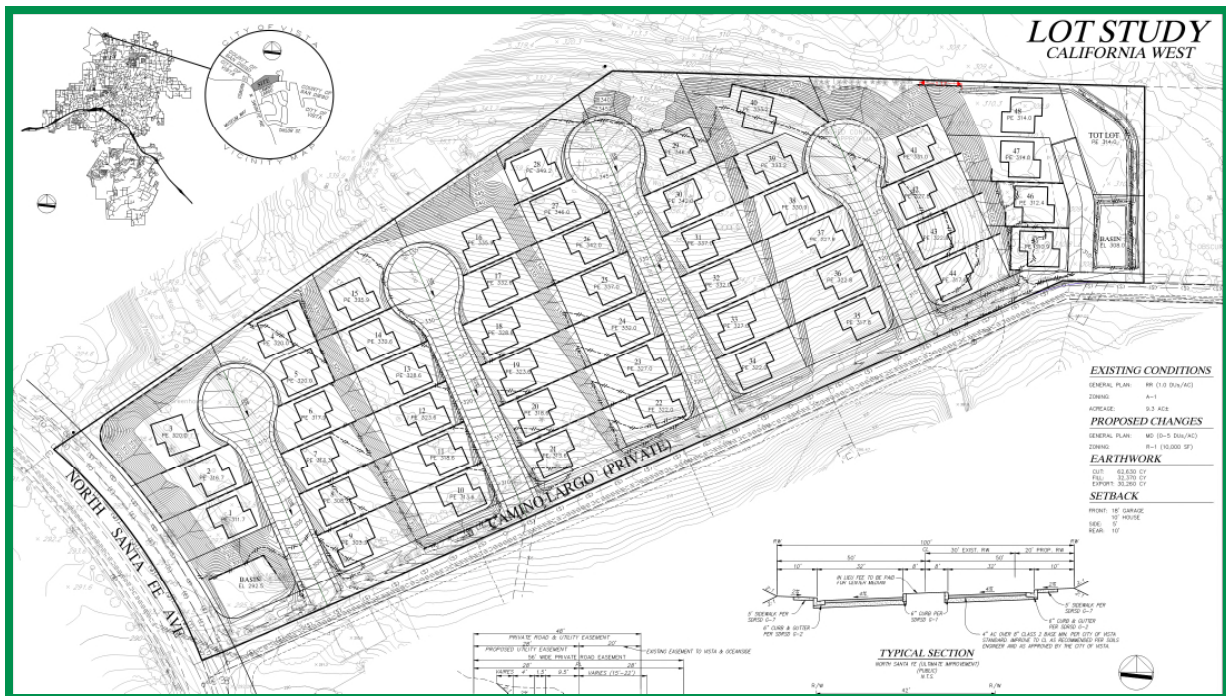
Based on review of the referenced plans, the proposed development will include constructing 48 single-family residential homes, private roadways, retaining walls, two biofiltration basins, tot lot, underground utilities, surface improvements, and landscaping. Finish building pad grades range from 349 feet MSL on Lot 28, 311 feet MSL on Lot 45 on the southeast and 303 feet MSL On Lot 9 on the southwest. Slope, lot and street storm drain runoff will be captured by inlets that empty into the proposed biofiltration basins at the southeast and southwest site limits and outlet to a proposed storm drain system along Camino Largo. New sewer and water utilities will service each lot and will connect to utilities on Camino Largo.

According to the referenced lot study, the proposed grading will consist of approximately 62,630 cubic yards of excavation and 32,370 yards of fill creating an export of approximately 30,260 yards. The referenced geotechnical report provided recommendations for shrink of 10 to 20 percent for surficial soils and 10 to 20 percent bulk for granitic rock materials.

Cut and fill slopes with maximum heights of 23 and 18 feet, respectively, are planned with inclinations of 2:1 (horizontal to vertical), or flatter. Retaining walls are planned for each lot with maximum heights of approximately 5 feet. Proposed cuts within the lots will be a maximum of 20 feet located mainly in the central lots and proposed fills are a maximum of 22 feet within Lot 3. An additional 3 to 4 feet of overexcavation below proposed finish pad grades and at least one foot below the deepest



utility within roadways within granitic rock areas should be anticipated. Although no proposed utility plan was provided, we anticipate the proposed excavations for utilities may be a maximum of 8 feet in depth. The Lot Study shows the proposed configuration of the site.



## Lot Study

## SUMMARY

The purpose of this letter is to summarize the soil and geologic conditions and geologic hazards that potentially affect site development. The information and our opinions provided herein are based on review of the referenced geotechnical report and referenced plan.

Three geotechnical reports were prepared for the site that included a preliminary investigation in 1997, an update geotechnical report in 2008 and a subsequent update report in 2012. In addition, an Air-Track study was performed in 1998. The subsurface field investigations included excavating 8 trenches and 13 Air-Track borings. Laboratory testing included maximum dry density and optimum moisture content, direct shear, pH and resistivity, chloride testing, expansion index and water-soluble sulfate content. The reports summarize the local geology, geologic units, geologic structure, faulting potential, seismicity, seismic design criteria, excavation characteristics, liquefaction potential and groundwater. The recommendations in the report include remedial grading, fill placement, compaction, foundations, retaining walls, preliminary pavement, corrosivity and concrete flatwork.

The following is a summary of the main geotechnical engineering aspects associated with development of the Camino Largo residential project.

## Geologic Units

The referenced geotechnical reports indicate the geologic conditions consist of surficial soils composed of undocumented fill and alluvium overlying formational granitic rock within the area of development. The undocumented fill is located at various locations across the site with a maximum anticipated thickness of 5 feet to create level areas. The alluvium is located mainly in the low-lying areas, in the east and west portions of the site overlying formational granitic rock and consists of loose to medium dense, dry to damp, silty sand with a maximum thickness of about 5 feet. The granitic rock consists of highly to moderately weathered, fine- to coarse-grained tonalite that will mostly generate granular soils when excavated. The granitic rock has some unweathered corestones beneath the existing surface and may be encountered during construction. Lots that expose granitic rock at grade should be undercut and replaced with properly compacted fill soil. The previous air-track borings were located in the north central portion of the site that will have the largest cuts. The results indicate that the granitic rock is generally rippable and that blasting will not be necessary to achieve finish grade or undercut grades within proposed lots and streets. However, the air-track borings show that un-rippable hard corestones will be encountered that will need to be individually placed in deeper fills or broken down to smaller sizes to properly place within compacted fills.

The undocumented fill, alluvium upper portions of the granitic rock are considered unsuitable to support the proposed development and will require remedial grading. The surficial soil generated during remedial grading can be reused as new compacted fill if generally free of debris and vegetation. The referenced reports recommend that the upper 4 to 5 feet below existing grades across the site will require remedial grading. Rock greater than one foot in diameter will need to be placed at least 5 feet from finish grades within pads and 10 feet from finish grade within the proposed roadways. Rocks larger than 4 feet in diameter will need to be broken to smaller sizes to allow for proper placement within compacted fills.

The granitic rock is considered suitable for support of the planned development and improvements. Excavation of the undocumented fill, alluvium and upper portions of the highly weathered granitic rock should generally be possible with moderate effort using conventional, heavy-duty grading equipment. Excavation of granitic rock should generally be possible with heavy to very heavy effort using conventional, heavy-duty grading and trenching equipment. Air-track borings generally indicate rippable conditions for the granitic rock. The large corestone rocks that will likely be encountered at depth within the granitic rock will need to be broken down to manageable sizes and properly placed within the compacted fill. If hard granitic rock is encountered that is too difficult to excavate, localized rock breaking will be required that will generate oversize rock requiring special handling and placement. We expect some hard rock will be encountered on the site based on our review of the air-track borings. However, we do not expect that blasting will be required to excavate granitic rock. The grading and underground contractors will need to determine the magnitude of hard rock that will be encountered based on the type of equipment that will be used during grading and trenching operations.

## Groundwater

Prior site investigations did not encounter localized seepage or groundwater during trenching. Seepage and groundwater conditions were not encountered within the granitic rock but may be perched on the contact between the surficial soils and granitic rock contact. It is common to encounter seepage within formational units during the rainy season or due to adjacent landscaping. Groundwater is not expected to be a limiting factor during grading and improvements at the site. Groundwater is not expected to affect the performance of the site once grading is complete. In addition, temporary seepage conditions could occur after heavy rain events that could locally affect construction activities. Once site development is complete and surface water flow is controlled, seepage conditions should not affect the performance of the development. However, it is common to install slope toe drains at the base of rock cut slopes to intercept irrigation water and reduce the potential for perched water within lots.

## Liquefaction

The referenced report from 2008 evaluated the liquefaction potential to be negligible due to the lack of permanent near surface groundwater and dense nature of underlying granitic rock.

## Faulting and Seismicity

The site is located in an area that is subject to possible moderate to strong ground shaking from regional seismic events on active faults. The nearest active faults are the Elsinore fault zone located approximately 17 miles to the northeast of the site and the Rose Canyon/Newport Inglewood fault zone located approximately 10 miles to the west. The potential for seismic shaking is similar to that of the surrounding area. Based on the referenced studies and our experience in the area, the site is not located on active, potentially active or inactive faults. Therefore, faulting or surface rupture will not have an impact to site development.

## Slopes

Maximum fill slope heights will be approximately 18 feet and will be constructed at inclinations of 2:1 (horizontal to vertical) or flatter. The outer 15 feet of fill slopes will require the use of on-site granular soils for construction that will have adequate shear strength characteristics. Therefore, slope instability for new constructed slopes will likely not be a hazard for development if proper compaction is achieved within slope zones during grading and improvement operations. Cut slopes in rock of up to 23 feet in height at a 2:1 inclination will be constructed and are anticipated to be stable. Observations of the rock will be required during the grading operations to evaluate weak planes or fractures.

## Settlement

Design fill depths will be a maximum of approximately 22 feet after performing remedial grading operations. We anticipate the undocumented fill and alluvium will be removed completely during

remedial grading. The compression related settlement within the granitic rock after remedial grading is performed due to loading from fill placement will be negligible based on the reported conditions, laboratory testing, and our experience with that geologic unit. The grading specifications indicate that fill should be placed near to slightly above their optimum moisture content, which will reduce the magnitude of post-grading hydro-compression. Settlement of fills will be a design factor that should be considered when preparing specific building foundation recommendations, which typically include total and differential fill thicknesses and expansion potential of the near surface finish grade soils. Fill depths below proposed pad grades will vary from 3 to 22 feet. We estimated that maximum post-construction settlement would be 1½ inches with a maximum differential settlement of ¾-inch in 40 feet.

### **Expansive and Corrosive Soils**

The on-site soils will have a very low to low expansion potential and negligible corrosive potential. The soils generated from excavations within the alluvium and colluvium are expected to possess a “very low” to “low” expansion potential (expansion index of between 0 and 50). The soils generated from excavations within granitic rock and its overlying topsoil are expected to possess a “very low” expansion potential (expansion index of 20 or less). The on-site soils are expected to have an “S0” water-soluble sulfate exposure to concrete improvements according to the 2019 CBC and ACI 318-14 Chapter 19. The sulfate exposures are not anticipated to impose special concrete mix design requirements for concrete foundations, buried concrete structures, and exterior concrete flatwork once finish grade soils have been tested. The risk of expansive soil affecting the proposed development is considered low due to the anticipated “very low” to “very low” expansion potential of the soils generated from excavations of onsite soils. The risk of corrosive soils affecting the proposed development due to water-soluble sulfate is considered very low.

### **CONCLUSIONS**

The scope of the referenced geotechnical reports included providing recommendations for the construction of the proposed residential development to reduce impacts of the existing soil and geologic conditions to tolerable levels. We opine the geotechnical reports are adequate for use in preparing a construction budget for the proposed project. However, the reports were prepared using the 2010 California Building Code (CBC) and should be updated for seismic design using the 2019 CBC. In addition, the storm water management report should be updated using the most recent version of the county storm water manual.

We opine the site can be developed for the proposed residential development provided the recommendations outlined in this due diligence letter and the referenced geotechnical investigations and pending update report are used in design and construction of the project. Geotechnical hazards are not present on the site that would prohibit development and Geocon Incorporated supports the proposed project. We should be contacted to provide an update geotechnical report when the property has been obtained.

The following is a list of geotechnical items that should be considered during due diligence:

1. Foundation recommendations were provided for the proposed single-family residences in the referenced geotechnical reports consisting of conventional foundations with slab-on-grade construction based on the anticipated expansion potential of the finish grade soils and the anticipated static post-construction total and differential fill settlements. These recommendations should be updated using the 2019 CBC. Post-tension foundation recommendations were not provided in the geotechnical reports and should be considered as a viable option for residential construction. We expect the majority of the proposed lots will be Category I and II foundations. Depending on remedial grading depths, some lots may require a Category III foundation. We do not expect the existing soil will possess a water-soluble sulfate content greater than “S0”; therefore, specialized concrete mix design will not be necessary from a geotechnical engineering standpoint.
2. The BMP basins will be excavated to a maximum depth of 2 to 3 feet (Elevation of 292.5 feet MSL in the western basin to 308 in the eastern basins) below existing grades. According to the 2012 report, a low permeable site was assumed. The referenced report recommended fully lined basins. Additional study will likely be required by the County of San Diego to determine final basin design.
3. Retaining wall plans were not provided for a review during this study. Updated recommendations using the 2019 CBC should be incorporated into the proposed retaining wall plans.
4. Existing subsurface boulders (corestones) located on the various locations on the site will require rock breaking to manageable sizes to allow for proper placement within deeper fill areas. In addition, boulders or corestones generated during granitic rock excavation will also require break down and placement within deep fills. Based on our review of the field investigation results, we anticipate that only minor areas of hard rock should be encountered.
5. We do not expect that remedial grading will affect properties along the perimeter of the site if performed properly.
6. Typical subgrade preparation time of exterior flatwork on lots is expected.
7. Typical subgrade preparation time of private street and concrete hardscape and sidewalk areas is expected.
8. Typical pavement thickness is expected for the planned private roadways as reported in the geotechnical reports.
9. Typical concrete costs for foundations and exterior flatwork are expected if the lots are capped with granular soils.
10. Typical design and use of landscape area drains and building roof drains are expected.
11. We expect typical long-term maintenance costs for surface improvements including sidewalks, curbs, and homeowner flatwork since we anticipate the lots will be capped with granular “very low” to “low” expansive soils.
12. Anticipate typical homeowner callback time and frequency for repairs to surface improvements.

Should you have any questions regarding this due diligence report, or if we may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON INCORPORATED



John Hoops  
CEG 1524

JH:arm

(e-mail) Addressee



# IS/MND Appendix E

---

## Environmental Site Assessments



# **PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT REPORT**

---

**CAMINO LARGO  
VISTA, CALIFORNIA**



**GEOCON**  
INCORPORATED

GEOTECHNICAL  
ENVIRONMENTAL  
MATERIALS

PREPARED FOR

**CALIFORNIA WEST COMMUNITIES  
CARLSBAD, CALIFORNIA**

**MAY 12, 2021  
PROJECT NO. G2721-62-01**





Project No. G2721-62-01  
May 12, 2021

California West Communities  
5927 Priestly Drive, Suite 110  
Carlsbad, California 92008

Attention: Mr. Don Fontana

Subject: PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT REPORT  
CAMINO LARGO  
VISTA, CALIFORNIA

Dear Mr. Fontana:

In accordance with your request and our agreement (Geocon, Inc. Proposal No. LE-211188) dated April 16, 2021, we have performed a Phase I and II Environmental Site Assessment (ESA) of the Camino Largo property (the Site) located in Vista, California.

We performed the Phase I ESA to provide information regarding the potential for existing hazardous substances and/or petroleum product impacts at the Site as part of California West Communities due diligence prior to purchasing the Site. Based on the findings of our Phase I ESA, we also performed a limited Phase II ESA to assess the stained soil observed at the Site for total petroleum hydrocarbons (TPH) and polychlorinated biphenyls (PCBs). The accompanying report presents the details of our Phase I and II ESA.

We appreciate the opportunity to have assisted California West Communities with this project. Please contact us if you have any questions concerning this report or if we may be of further service.

Very truly yours,

GEOCON INCORPORATED

Cole E. Mikesell  
Staff Geologist

Troy K. Reist, CEG  
Senior Geologist

CEM:TKR:arm

(e-mail) Addressee

## TABLE OF CONTENTS

PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT REPORT		Page
1.	INTRODUCTION .....	1
1.1	Purpose and Objectives.....	1
1.2	Scope of Services.....	2
1.3	Report Limitations .....	3
1.4	Data Gaps .....	3
2.	SITE DESCRIPTION .....	4
2.1	Location and Legal Description.....	4
2.2	Site and Vicinity General Characteristics.....	4
2.2.1	Topography.....	4
2.2.2	Geologic and Soil Conditions.....	4
2.2.3	Hydrologic and Hydrogeologic Conditions.....	5
2.3	Current and Planned Uses of the Site .....	5
2.4	Descriptions of Structures, Roads, Other Improvements on the Site .....	5
2.5	Current Uses of Adjoining Properties.....	6
3.	USER-PROVIDED INFORMATION .....	6
3.1	Title, Appraisal and Sale Agreement Records.....	6
3.2	Environmental Liens or Activity and Use Limitations .....	6
3.3	Specialized Knowledge .....	6
3.4	Commonly Known or Reasonably Ascertainable Information.....	6
3.5	Owner, Property Manager, and Occupant Information .....	6
3.6	Valuation Reduction for Environmental Issues.....	6
3.7	Reason for Performing the Phase I ESA.....	7
4.	RECORDS REVIEW.....	7
4.1	Standard Environmental Record Sources .....	7
4.1.1	Site.....	7
4.1.2	Offsite Properties.....	8
4.1.3	Orphan Summary.....	8
4.2	Additional Environmental Record Sources .....	8
4.2.1	GeoTracker and EnviroStor Databases.....	8
4.2.2	State of California Department of Conservation, Geologic Energy Management Division... 8	
4.2.3	County of San Diego Department of Agriculture, Weights and Measures.....	8
4.2.4	San Diego Air Pollution Control District .....	9
4.2.5	County of San Diego Department of Environmental Health.....	9
4.2.6	San Diego Gas and Electric Company.....	9
4.3	Previous Environmental Report.....	9
5.	HISTORICAL USE .....	10
5.1	Aerial Photographs .....	10
5.2	Topographic Maps.....	11
5.3	City Directories.....	12
6.	SITE RECONNAISSANCE .....	13
6.1	Methodology and Limiting Conditions.....	13
6.2	General Site Setting .....	13
6.3	Onsite Survey .....	13
6.4	Offsite Survey.....	14

TABLE OF CONTENTS (Concluded)

	Page
PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT	
7. INTERVIEWS .....	15
8. SUMMARY OF FINDINGS .....	16
9. PHASE II ESA.....	17
9.1 Scope of Investigation .....	17
9.2 Soil Sample Collection and Analysis .....	17
9.3 Results .....	17
10. CONCLUSIONS AND RECOMMENDATIONS.....	19
11. REFERENCES.....	20
12. QUALIFICATIONS .....	21

FIGURES

1. Vicinity Map
2. Site Plan

PHOTOGRAPHS (1 through 24)

APPENDICES

- A. County of San Diego Assessor's Parcel Map
- B. Client Provided Documents and Questionnaires
- C. EDR Radius Map™ Report with GeoCheck®
- D. EDR Aerial Photo Decade Package
- E. EDR Historical Topo Map Report
- F. EDR-City Directory Image Report
- G. Enthalpy Analytical Laboratory Results - Soil

# PHASE I AND II ENVIRONMENTAL SITE ASSESSMENT REPORT

## 1. INTRODUCTION

Geocon, Inc. (Geocon) has performed a Phase I and II Environmental Site Assessment (ESA) of the Camino Largo property (the Site) in Vista, California. California West Communities (the Client) requested the Phase I ESA to provide information regarding the potential for existing hazardous substances and/or petroleum product impacts at the Site as part of their due diligence prior to purchasing the Site. This report describes the methodology and procedures and present the findings of the Phase I and II ESA.

### 1.1 Purpose and Objectives

The purpose of the Phase I ESA was to identify evidence or indications of ‘recognized environmental conditions’ (REC) as defined by the American Society for Testing and Materials (ASTM) *Designation E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. Section 1.1.1 of *ASTM Designation E 1527-13* defines an REC as “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.” De minimis conditions are those that generally do not present a threat to human health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies.

*ASTM Designation E 1527-13* also defines ‘Historical’ and ‘Controlled’ RECs. They define an ‘Historical REC’ (HREC) 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).” ASTM defines a ‘Controlled REC’ (CREC) 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 (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).” An HREC is not an REC if a property meets current standards for unrestricted use. A CREC remains an REC by definition when the property does not meet the unrestricted use requirements unconditionally.

We also conducted the Phase I ESA in general accordance with the requirements of 40 Code of Federal Regulations (CFR) Part 312 titled *Standards and Practices for All Appropriate Inquiries*, as required under Sections 101(35)(B)(ii) and (iii) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The purpose of conducting an all appropriate inquiries investigation into the previous ownership and uses of a property is to meet the provisions necessary for the landowner, contiguous property owner, and/or bona fide prospective purchaser to qualify for certain landowner liability protections under CERCLA.

The following principles are an integral part of ASTM *Designation E1527-13*:

- **“Uncertainty Not Eliminated** - No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost.”
- **“Not Exhaustive** - All Appropriate Inquiries does not mean an exhaustive assessment of a property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information.”
- **“Level of Inquiry is Variable** - Not every property will warrant the same level of assessment. Consistent with good commercial and customary practice, the appropriate level of environmental site assessment will be guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry.”

## 1.2 Scope of Services

We performed the scope of services outlined in our Proposal No. LE-211188, dated April 16, 2021, with the exception that we did not review Sanborn fire insurance maps, as Environmental Data Resources, Inc. (EDR) indicated that there are none available for the Site or surrounding vicinity. The main components of the Phase I ESA and their objectives, as specified by the referenced standards, include the following:

- **Physical Setting Review:** we reviewed physical setting references for information concerning the topographic, geologic, and hydrogeologic characteristics of the Site and vicinity. Such information may be indicative of pathways (i.e., direction and/or extent) that a contaminant could migrate along in the event of a spill or release.
- **Regulatory Agency Records Review:** we reviewed publicly available Federal, State, and local regulatory agency records for information regarding the use, storage, and disposal of hazardous substances and/or petroleum products at the Site and facilities and properties

adjoining or within ¼ mile of the Site. Such records may identify RECs at or potentially affecting the Site.

- **Site History Review:** we reviewed information regarding the historical uses of the Site and adjoining and nearby facilities and properties back to the Site's and other properties' first use or 1940, whichever is earlier, that could have led to RECs on or near the Site. Historical sources reviewed included aerial photographs, topographic maps, and city directories. In addition, we conducted interviews with persons who were expected to be reasonably knowledgeable about historical and/or current conditions at and uses of the Site.
- **Site Reconnaissance:** we performed a site reconnaissance to observe site conditions and activities for evidence of RECs. The site reconnaissance was for the Site only. We viewed offsite properties and features solely from the vantage of the Site and public thoroughfares.

### 1.3 Report Limitations

We prepared this report exclusively for the Client. The information obtained is only relevant for the dates of the records reviewed and the latest site visit. Therefore, the information contained herein is only valid as of the date of the report and may require an update after 180 days to reflect updated records and another reconnaissance to assess current site conditions.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions presented in this report are predicated on the site reconnaissance, information in the specified regulatory records, and information regarding the historical usage of the Site, as presented in this report. The Client should also understand that wetlands, asbestos-containing building materials, lead-containing paint, lead in drinking water, radon, mercury related to mining activities, methane, and mold surveys were not included in the scope of services for this report. Assessment for potential naturally occurring hazards such as asbestos and arsenic was also not included.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of this assessment is implied within this report or any subsequent reports, correspondence or consultation, either express or implied. We strived to conduct the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

### 1.4 Data Gaps

A data gap is defined by ASTM *Designation E 1527-13* as “a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information.” Data gaps could include such things as insufficient historical information, the inability to interview persons with direct site knowledge (e.g., the owner(s), past owner(s), tenants, workers, etc.) or the lack of access to all parts of a site during the site reconnaissance. As indicated in Section

1.2, we did not review Sanborn fire insurance maps for the Site and surrounding vicinity because there are none for the Site and vicinity. We do not consider this a significant data gap however, because of other available historical information we reviewed.

## **2. SITE DESCRIPTION**

This section provides information regarding the location and physical characteristics of the Site including its size, topography, geologic, soil, and hydrogeologic conditions.

### **2.1 Location and Legal Description**

The 9.2-acre Site is located northeast of the intersection of North Santa Fe Avenue and Camino Largo in Vista, California (Figure 1). The Site is depicted in the northeastern quarter of Section 12 of Township 11 South, Range 4 West, San Bernardino Base and Meridian on the United States Geological Survey's (USGS) *San Marcos, California, 7.5-minute topographic map* (USGS, 2018). The San Diego County assessor's parcel number (APN) for the Site is 159-240-07. A copy of the parcel map is in Appendix A.

### **2.2 Site and Vicinity General Characteristics**

The majority of the Site consists of undeveloped land that is currently occupied by a palm nursery. The surrounding vicinity includes undeveloped open space and single-family residences. Figure 2 depicts the site boundaries and features and surrounding properties. Further site description is provided in Sections 2.4 and 6.

#### **2.2.1 Topography**

The topography of the site vicinity is characterized by gentle to moderate rolling hills that ultimately drain to the west. The USGS *San Marcos, California, 7.5-minute topographic map* (USGS, 2012), depicts the elevation at the Site as ranging from approximately 295 to 350 feet above mean sea level

#### **2.2.2 Geologic and Soil Conditions**

The Site is located in the Peninsular Ranges geomorphic province of Southern California (Norris and Webb, 1990). This geomorphic province extends approximately 900 miles from its northern terminus against the Transverse Ranges and Los Angeles Basin, south to the tip of Baja California. In general, the province is characterized by rugged mountains in Mesozoic igneous and metamorphic rocks to the east, with a dissected coastal plain on Cenozoic sediments to the west. The Peninsular Ranges vary in width from approximately 30 to 100 miles, and are traversed fault zones trending roughly northwest-southeast.

Information concerning the surficial geologic conditions at and in proximity to the Site from the *Geologic Map of the Oceanside 30' X 60' Quadrangle, San Diego County, California* (USGS, 2005) indicates that the Site is underlain by mid-Cretaceous mostly massive coarse-grained, light-gray hornblende-biotite tonalite, and late Holocene alluvial flood plain deposits which consist of unconsolidated sandy, silty, or clay-bearing alluvium.

The United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>) indicates that site soil is Fallbrook sandy loam, Placentia sandy loam, Bonsall sandy loam, and Salinas sandy loam. These sandy loams are well drained and range from low to high infiltration rates.

### **2.2.3 Hydrologic and Hydrogeologic Conditions**

Groundwater quality and occurrence information available from the California Department of Water Resources and the California State Water Resources Control Board (SWRCB) indicates that the Site is located in the Lower San Luis Hydrologic Area (903.10) of the San Luis Rey Hydrologic Unit (903.00). Groundwater in the Lower San Luis Hydrologic Area has existing beneficial use designations for municipal, agricultural, and industrial supply purposes (SWRCB, 2018).

In an effort to assess local groundwater conditions, we reviewed reports available on the SWRCB's GeoTracker online database (<http://geotracker.waterboards.ca.gov>) for nearby facilities with a groundwater monitoring well array. One groundwater monitoring well was installed approximately 1 mile southeast of the Site at 1450 North Santa Fe Avenue in 2013 related to assessment of County of San Diego Department of Environmental Health (DEH) Leaking Underground Storage Tank (LUST) case #DEH2013-LSAM-000189. The depth to groundwater measured in this well was reported to be approximately 17-18 feet with groundwater flow estimated to be towards the southeast.

### **2.3 Current and Planned Uses of the Site**

The Site is currently used for a palm nursery. The Client reported that they plan to develop the Site with a subdivision consisting of 48 single-family residences. Further description of the Site is provided in Section 6.

### **2.4 Descriptions of Structures, Roads, Other Improvements on the Site**

An irrigation reservoir was present in the northern central portion of the Site. Several storage containers and sheds are present throughout the Site. Overhead utilities extend across the central portion of the Site.



## **2.5 Current Uses of Adjoining Properties**

Current uses of adjoining properties are primarily residential and undeveloped open space. Further information regarding adjoining properties is provided in Section 6.4.

## **3. USER-PROVIDED INFORMATION**

This section summarizes site information provided by the Client – the “user” of this Phase I ESA. Also provided are responses to inquiries to the Client via a “user” questionnaire for information pertaining to the Site. Blake Fontana with California West Communities completed the questionnaire (Appendix B).

### **3.1 Title, Appraisal and Sale Agreement Records**

Mr. Fontana did not provide a preliminary title report, appraisal, or sales agreement.

### **3.2 Environmental Liens or Activity and Use Limitations**

Mr. Fontana indicated that he has no knowledge of environmental liens on or activity and use limitations for the Site.

### **3.3 Specialized Knowledge**

Mr. Fontana indicated he has no specialized knowledge of the Site.

### **3.4 Commonly Known or Reasonably Ascertainable Information**

Mr. Fontana indicated that the Site is currently in operation as a nursery.

### **3.5 Owner, Property Manager, and Occupant Information**

Mr. Fontana indicated the Site is owned by the Kim Family Trust. Choice Nursery is operating onsite per a month-to-month lease.

### **3.6 Valuation Reduction for Environmental Issues**

According to Mr. Fontana, the monetary value of the Site has not been reduced due to environmental issues.

### 3.7 Reason for Performing the Phase I ESA

We performed the Phase I ESA to provide the Client with information regarding the potential for existing hazardous substance and/or petroleum product impacts at the Site as part of due diligence prior to purchasing the Site.

## 4. RECORDS REVIEW

This section summarizes information we obtained from readily available agency records for the Site and properties and facilities in the surrounding vicinity.

### 4.1 Standard Environmental Record Sources

EDR searched federal, state, and local databases regarding the use, storage, disposal, or release of hazardous substances and/or petroleum products for the Site and area within one mile of the Site. The databases that list the Site and/or properties/facilities within one mile of the Site and the number of properties/facilities listed are summarized in the table below. A copy of *The EDR Radius Map™ Report with GeoCheck*, dated April 20, 2021, is in Appendix C.

Database Name	Search Radius (Mile)	Number of Listings
<b>STATE AND LOCAL DATABASES</b>		
SAN DIEGO CO. SAM (Diego County Site Assessment and Mitigation Program)	½	1
CA SLIC (Spills, Leaks, Investigation, and Cleanup Program)	½	1
SCH	¼	1
CERS	Site Only	1
RCRA Non-Gen/NLR (Non-Generators/No Longer Regulated)	¼	1
ENVIROSTOR	1	2

#### 4.1.1 Site

The Site is listed on the CERS, ENVIROSTOR, and SCH databases. All of these listings are in reference to a school investigation that was proposed for the Site in September of 2003. The Vista Unified School District submitted an application to the DTSC to begin the Preliminary Endangerment Assessment for a proposed elementary school at the Site, but ultimately decided to no longer pursue Site acquisition.

#### **4.1.2 Offsite Properties**

No offsite properties within  $\frac{1}{8}$  mile (or  $\frac{1}{4}$  mile for LUST facilities) of the Site are identified in the regulatory databases reviewed. Distances reported by EDR may differ from actual distances.

#### **4.1.3 Orphan Summary**

EDR's Orphan Summary identifies properties with incomplete address information and therefore cannot be accurately plotted. One property is listed but because it is greater than one mile from the Site, it is not suspected of having caused an REC at the Site.

### **4.2 Additional Environmental Record Sources**

This section summarizes information from additional, readily available environmental record sources regarding the Site and properties/facilities within one mile from the Site.

#### **4.2.1 GeoTracker and EnviroStor Databases**

We reviewed GeoTracker and the California Department of Toxic Substance Control's (DTSC) EnviroStor (<http://www.envirostor.dtsc.ca.gov/public/>) online databases for information regarding the Site and nearby properties/facilities that are within  $\frac{1}{4}$  mile of the Site. GeoTracker does not have information pertaining to the Site or any properties/facilities within  $\frac{1}{4}$  mile of the Site. EnviroStor does not have information pertaining to the Site any properties/facilities within  $\frac{1}{4}$  mile of the Site.

#### **4.2.2 State of California Department of Conservation, Geologic Energy Management Division**

We reviewed the California Geologic Energy Management Division (CalGem) website (<https://maps.conservation.ca.gov/doggr/wellfinder>) to evaluate the potential for existing/former oil, gas, or geothermal wells on the Site or properties proximal to the Site. CalGem information indicates that no former or current wells are or were located within one mile of the Site.

#### **4.2.3 County of San Diego Department of Agriculture, Weights and Measures**

We submitted a request to the County of San Diego, Department of Agriculture, Weights and Measures (DAWM), Pesticide Use Enforcement Division regarding possible use of restricted pesticides/herbicides at the Site. That office maintains such records for approximately 4 years. The DAWM indicated that no record of restricted pesticide/herbicide use was reported for the site APN for the period of 2017 through 2021.

#### **4.2.4 San Diego Air Pollution Control District**

We submitted a request to the San Diego Air Pollution Control District (APCD) for records pertaining to the Site. The APCD indicated that no records are on file for the site APN.

#### **4.2.5 County of San Diego Department of Environmental Health**

We submitted a request to the DEH for records pertaining to the Site. The DEH indicated that no records are on file for the site APN.

#### **4.2.6 San Diego Gas and Electric Company**

A pole-mounted transformer is present on the Site. Documented discussions with San Diego Gas & Electric Company (SDG&E) representatives regarding transformers indicate that SDG&E has never specified polychlorinated biphenyl (PCB)-containing transformers for its electrical distribution system. Regardless, SDG&E has determined that some older (pre-1980s) mineral transformers were inadvertently contaminated with PCBs by the manufacturer. Based on a statistical sampling and testing program reportedly performed by SDG&E, it is unlikely that transformers found within its service area contain PCBs.

### **4.3 Previous Environmental Report**

Following is a summary of a previous environmental report pertaining to the Site.

Vinje & Middleton Engineering, Inc. – Modified Phase I Environmental Site Assessment, Tentative Subdivision Map PC 6-056/2-112, Camino Largo 8, N. Santa Fe Avenue, San Diego County, California, 92084 dated June 20, 2012.

Vinje & Middleton Engineering, Inc. performed a modified Phase I ESA at the Site in June 2012. They found that the past use of the Site for agricultural purposes as well as a palm nursery represents a REC due to the potential for residue agricultural chemicals in the near surface soil. In addition, cumulative oil concentrations (motor oil, hydraulic oil, lubricating oil) were observed during their site reconnaissance in areas where dismantled vehicle chassis and a tractor were located.

Soil samples were collected and tested for OCPs, TPH, and arsenic. Laboratory results showed no detectable concentrations of OCPs, with arsenic concentrations ranging between 3.5 and 4.4 mg/kg, which is within the Southern California average background arsenic concentration of 12 mg/kg. Diesel concentrations ranged between non-detectable to 4,300 mg/kg, with cumulative oil concentrations ranging between non-detectable to 11,700 mg/kg. Vinje & Middleton Engineering, Inc. concluded that areas of soil staining beneath equipment is an REC and that the soil in those areas should be evaluated at a depth below grade to determine the vertical extent of contamination.

## 5. HISTORICAL USE

This section summarizes information we obtained from a variety of sources regarding the historical uses of the Site in an effort to identify those uses that could have led to RECs. The sources included historical aerial photographs, historical topographic maps, and an abstract of city directories provided by EDR.

### 5.1 Aerial Photographs

We reviewed historical aerial photographs for the years 1938, 1946, 1953, 1964, 1967, 1970, 1979, 1985, 1989, 2005, 2009, 2012 and 2016 (Appendix D) for indications of past land uses that had the potential to have impacted the Site through the use, storage or disposal of hazardous substances and/or petroleum products. The following table summarizes our observations of the Site and adjacent properties.

Year	Observations	
	Site	Adjacent Properties
1938 (1" = 500')	The northern portion of the Site appears to have been used for agricultural purposes.	The adjacent properties appear to have been used for agricultural purposes.
1946 (1" = 500')	Conditions appear to have been similar to those observed on the 1938 aerial photograph.	Conditions appear to have been similar to those observed on the 1938 aerial photograph.
1953 (1" = 500')	Conditions appear to have been similar to those observed on the 1946 aerial photograph, except that additional row crops can now be observed on the eastern portion of the Site.	Conditions appear to have been similar to those observed on the 1946 aerial photograph with the exception that structures appear to have been developed on the property adjacent to the north of the Site.
1964 (1" = 500')	Conditions appear to have been similar to those observed on the 1953 aerial photograph with the exception that two structures are present in the northern central portion of the Site.	Conditions appear to have been similar to those observed on the 1953 aerial photograph.
1967 (1" = 500')	Conditions appear to have been similar to those observed on the 1964 aerial photograph.	Conditions appear to have been similar to those observed on the 1964 aerial photograph.
1970 (1" = 500')	Conditions appear to have been similar to those observed on the 1967 aerial photograph.	Conditions appear to have been similar to those observed on the 1967 aerial photograph with the exception that the properties adjacent to the east and west appear to have been developed with residential housing.
1979 (1" = 500')	Conditions appear to have been similar to those observed on the 1970 aerial photograph.	Conditions appear to have been similar to those observed on the 1970 aerial photograph.
1985 (1" = 500')	Conditions appear to have been similar to those observed on the 1979 aerial photograph, except that all agricultural use of the Site appears to have been ended.	Conditions appear to have been similar to those observed on the 1979 aerial photograph.

Year	Observations	
	Site	Adjacent Properties
1989 (1" = 500')	Conditions appear to have been similar to those observed on the 1985 aerial photograph.	Conditions appear to have been similar to those observed on the 1985 aerial photograph with the exception that the property adjacent to the south appears to have been developed with single-family residences.
2005 (1" = 500')	Conditions appear to have been similar to those observed on the 1989 aerial photograph, except that the Site appears to be operating as a palm nursery, with two large structures present in the northeastern portion of the Site.	Conditions appear to have been similar to those observed on the 1989 aerial photograph.
2009 (1" = 500')	Conditions appear to have been similar to those observed on the 2005 aerial photograph.	Conditions appear to have been similar to those observed on the 2005 aerial photograph.
2012 (1" = 500')	Conditions appear to have been similar to those observed on the 2009 aerial photograph.	Conditions appear to have been similar to those observed on the 2009 aerial photograph.
2016 (1" = 500')	Conditions appear to have been similar to those observed on the 2012 aerial photograph.	Conditions appear to have been similar to those observed on the 2012 aerial photograph.

The past agricultural use of the Site and the current use as a palm nursery suggests that pesticides may have been used on the Site. However, as described in Section 4.3, results of Vinje & Middleton Engineering, Inc's Modified Phase I ESA found that the shallow soils on the Site had not been impacted by OCPs or associated arsenic.

## 5.2 Topographic Maps

We reviewed historical topographic maps for the years 1893, 1898, 1901, 1947/1950, 1948, 1949, 1968, 1975, 1983, 1996/1997 and 2012 (Appendix E). The following table summarizes observations of the Site and adjacent properties on the historical topographic maps.

Year	Observations	
	Site	Adjacent Properties
1893 (1:62,500)	No structures or land use are depicted on the Site.	No structures or land use are depicted on the adjacent properties.
1898 (1:62,500)	The Site appears in the portion of the map labelled as "unmapped".	The adjacent properties appear in the portion of the map labelled as "unmapped".
1901 (1:62,500)	Conditions are similar to those depicted on the 1898 topographic map.	Conditions are similar to those depicted on the 1898 topographic map.

Year	Observations	
	Site	Adjacent Properties
1947/1950 (1:50,000)	Conditions are similar to those depicted on the 1901 topographic map.	Conditions are similar to those depicted on the 1901 topographic map with the exception that structures are depicted to the north, east, south, and west of the Site. The properties adjacent to the north and east are dotted green, indicating orchards.
1948 (1:24,000)	Conditions are similar to those depicted on the 1947/1950 topographic map with the exception that a structure is depicted on the northern portion of the Site. The area around the central northern portion of the Site is also shaded with green dots indicating orchards.	Conditions are similar to those depicted on the 1947/1950 topographic map.
1949 (1:24,000)	Conditions are similar to those depicted on the 1948 topographic map.	Conditions are similar to those depicted on the 1948 topographic map.
1968 (1:24,000)	Conditions are similar to those depicted on the 1949 topographic map with the exception that two structures are now depicted on the northern portion of the Site. No shading is depicted.	Conditions are similar to those depicted on the 1949 topographic map, with the exception that the adjacent properties are no longer shaded green indicating orchards.
1975 (1:24,000)	The Site appears in the portion of the map labelled as “unmapped”.	The adjacent properties appear in the portion of the map labeled as “unmapped”.
1983 (1:24,000)	Conditions are similar to those depicted on the 1975 topographic map.	Conditions are similar to those depicted on the 1975 topographic map.
1996/1997 (1:24,000)	Conditions are similar to those depicted on the 1983 topographic map.	Conditions are similar to those depicted on the 1983 topographic map, with the exception that the adjacent properties to the north, east, and south are shaded pink indicating an urban environment.
2012 (1:24,000)	No shading or structures are depicted.	No shading or structures are depicted.

Depiction of the past use of the Site for agricultural purposes is described in Section 4.3 and 5.1.

### 5.3 City Directories

EDR prepared an abstract of city directories including city, cross-reference, and telephone directories summarized in the *EDR-City Directory Image Report* dated April 22, 2021. The directories were reviewed at approximately 5-year intervals, if available, from 1971 to 2017. A copy of the EDR city directory abstract including information regarding offsite facilities is in Appendix F. Residents and businesses along North Santa Fe Avene are reported from 1971 to 2017, as well as a preschool. None of the listed residents, businesses, or schools reported by the EDR-City Directory are suspected of having caused an REC at the Site.

## **6. SITE RECONNAISSANCE**

This section summarizes observations of the Site and surrounding properties made during the site reconnaissance.

### **6.1 Methodology and Limiting Conditions**

Troy Reist, Senior Geologist with Geocon, performed the site reconnaissance accompanied by the existing tenant of the Site, David Wendruck with Choice Nursery, on April 30, 2021. Mr. Reist performed the offsite survey by observing adjacent properties from the Site and adjacent public streets. Weather on the day of the site reconnaissance was clear and the temperature was in the upper-70s. Photographs of various site features and offsite properties are appended and Figure 2 illustrates selected site features.

### **6.2 General Site Setting**

The Site is located in a ranch-style residential setting. North Santa Fe Avenue is adjacent to the west and Camino Largo is adjacent to the south of the Site.

### **6.3 Onsite Survey**

The Site consists of mostly undeveloped land that is currently occupied by a palm nursery, identified as Choice Nursery (Photograph Nos. 1 through 6). Remnants of a former shed and an unutilized irrigation reservoir are present in the central portion of the site (Photographs Nos 7 and 8). A shed/trailer, utilized by the caretaker is present in the southwestern portion of the Site (Photograph No. 9). Several vehicles, an RV, farm/construction equipment, auto/machine parts and miscellaneous debris are located throughout the property (Photographs Nos 10 through 14). A storage trailer utilized for storing various irrigation parts and equipment, including fuel was present in the central portion of the site (Photograph No. 15). An empty storage container was located in the eastern portion of the Site (Photograph No 16). We observed a pole-mounted transformer in the central portion of the Site (Photograph No. 17).

We did observe some de minimis staining around the areas where vehicles, farm/construction equipment, auto/machine parts are stored (Photographs Nos. 18 and 19). An approximate 30 by 4-foot area of stained soil was observed directly beneath where a crane, utilized for the nursery, is located (Photograph No. 20), which is considered an REC based on the soil sample results discussed in Section 9.



## 6.4 Offsite Survey

Properties within the site vicinity include:

- **North:** Single-family residences and open space (Photograph No. 21);
- **East:** Extension of Camino Largo, beyond which are single-family residences (Photograph No. 22);
- **South:** Camino Largo, beyond which is open space and single-family residences (Photograph No. 23); and
- **West:** North Santa Fe Avenue, beyond which is a single-family residence (Photograph No. 24).

We observed no evidence of RECs on the surrounding properties.

## 7. INTERVIEWS

The current property owner, Frank Sohaei, reported via a site owner/occupant questionnaire (Appendix B) that the Site has been used as a palm nursery for at least 23 years. Mr. Sohaei reported that a reservoir exists on top of the western hill of the Site. Mr. Sohaei indicated that stained soil from parked equipment is present in portions of the Site.

Mr. David Wendruck with Choice Nursery indicated to Troy Reist during the Site investigation that no pesticides have been used for his palm nursery operation and was unaware of any hazardous substances or petroleum products that may have impacted the Site other than the observed stained areas where equipment has been parked.

## 8. SUMMARY OF FINDINGS

The following table summarizes our findings and opinions regarding the Site, including known or suspect RECs, CRECs, HRECs, and de minimis environmental conditions.

Assessment Category	Observed (Y/N)	(REC/ CREC/ HREC/ DM or None)	Recommended Actions	Report Section(s)
<b>Hazardous Substances/Petroleum Products</b>	<b>Y</b>	<b>REC/DM</b>	<b>AA</b>	<b>4.3, 6.3, 7, 9</b>
<b>Hazardous Wastes</b>	N	N	NFA	
<b>Non-Hazardous Wastes</b>	N	N	NFA	
<b>Aboveground/Underground Storage Tanks</b>	N	N	NFA	
<b>Unidentified Substance Containers</b>	N	N	NFA	
<b>Equipment Potentially Containing PCBs</b>	N	N	NFA	
<b>Wastewater Systems</b>	N	N	NFA	
<b>Evidence of Releases</b>	N	N	NFA	
<b>Pools of Liquid, Pits, Ponds, Lagoons</b>	<b>Y</b>	<b>N</b>	<b>NFA</b>	<b>6.3, 7</b>
<b>Wells</b>	N	N	NFA	
<b>Other Site Issues</b>	N	N	NFA	
<b>Nearby Properties</b>	N	N	NFA	
<b>Historical Land Use – Site</b>	<b>Y</b>	<b>N</b>	<b>NFA</b>	<b>4.3, 5.1, 5.2</b>
<b>Historical Land Use – Nearby Properties</b>	N	N	NFA	

**Recommended Action:**

AA = Additional action recommended.

NFA = No further action required at this time.

DM = De minimis condition where additional activities do not appear warranted at this time.

Soil staining around the existing crane parking area is considered an REC. The extent of the de minimis staining observed was limited to the areas of the Site where vehicles, farm/construction equipment, and auto/machine parts are stored. In addition, as described previously, the past use of the Site for agricultural purposes suggests that persistent pesticides may have been used on the Site. However, the results of Vinje & Middleton Engineering, Inc’s assessment indicates that the Site has not been impacted by OCPs or associated arsenic.

## 9. PHASE II ESA

We performed a limited Phase II ESA to assess an area of the Site that was observed to have discolored soil where a crane, utilized for the palm nursery, has been parked for over 15 years according to Mr. Wendruck. Mr. Wendruck offered to move the crane so that we could further assess the area and collect representative soil samples from beneath the crane.

### 9.1 Scope of Investigation

The scope of the Phase II ESA consisted of the following tasks:

- Retaining Enthalpy Analytical, LLC, a state-certified laboratory, to perform laboratory analysis of soil samples and planned soil sample locations;
- Collecting soil samples from the stained soil located beneath the crane parking area;
- Performing laboratory analysis of soil samples; and
- Preparing this report describing the assessment and its findings.

### 9.2 Soil Sample Collection and Analysis

On April 30, 2021, we collected two discrete soil samples from the surface and 6-inches below existing grade from stained soil at the approximate location shown on Figure 2. The soil samples were collected using a decontaminated trowel then transferred into laboratory-provided 4-ounce jars. The jars were capped with Teflon-lined lids, labeled, and placed in a chilled cooler for transport to the laboratory under chain-of-custody protocol. The samples were analyzed for TPH and PCBs. Based on our observations while collecting and excavating the soil beneath the staining, the extent of the impacted soil appeared limited to the upper foot.

### 9.3 Results

A copy of the laboratory analysis report is in Appendix G and the results are summarized below.

#### TPH

Gasoline-range organics (GRO), were not detected at concentrations exceeding the laboratory reporting limits (RLs) in the samples. However, the following diesel-range organics (DRO) and oil-range organics (ORO) were detected at the following concentrations:

- DRO was detected in both samples (S1-0' and S1-0.5') at 13,000 and 490 milligrams per kilogram (mg/kg), respectively, which exceeds the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for DRO in residential soil of 260 mg/kg.
- ORO was detected in both samples (S1-0' and S1-0.5') at 13,000 and 370 mg/kg, respectively, which exceeds the ESL for ORO in Sample S1-0' for residential soil of 12,000 mg/kg.

## **PCBs**

The PCB Arochlor-1260 was detected in Sample S1-0.5' at a concentration of 0.057 mg/kg, which does not exceed the Hero Note 3 Department of Toxic Substances Control Screening Levels for residential soil of 0.24 mg/kg.

## 10. CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I ESA, in general conformance with the scope and limitations of ASTM E 1527-13, of the 9.2-acre Site in Vista, California. The San Diego County APN for the Site is 159-240-07.

Our limited Phase II that consisted of collecting soil samples beneath the crane parking area confirmed the presence of diesel and oil-range organics and PCBs. The concentrations in the samples exceeded the applicable regulatory health risk-based screening levels for diesel and oil-range organics, which is considered an REC. The impacted soil (less than 5 cubic yards), which is confined to the upper foot of a 30 x 4-foot area, should be excavated and properly disposed of prior to development.

If additional significant soil staining or petroleum odors are observed during grading observations, Geocon Incorporated should be contacted to observe and possibly sample areas of potential impact to determine if further action is warranted. Additionally, any undocumented subsurface structures or areas of apparent contamination encountered during site redevelopment activities including septic tanks, USTs, wells, etc. should be properly abandoned/removed in accordance with San Diego County regulatory requirements.

## 11. REFERENCES

- Air Pollution Control District, Freddie Morrison, Permit Processing, electronic mail communication, April, 2021.
- American Society for Testing and Materials Designation E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, 2013.
- California Department of Water Resources, Water Data Library, <http://www.water.ca.gov/waterdatalibrary/>, 2021.
- California Geologic Energy Management Division. Website database, District 1, <https://maps.conservation.ca.gov/doggr/wellfinder/#close>, 2021.
- California State Water Resources Control Board, GeoTracker website, <http://geotracker.waterboards.ca.gov/>, 2021.
- California State Water Resources Control Board, San Diego Region Basin Plan website, [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/docs/update082812/Chpt\\_2\\_2012.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/docs/update082812/Chpt_2_2012.pdf), 2021.
- Department of Agriculture, Weights, and Measures, Gemma Bilog, electronic mail communication, April, 2021.
- Department of Environmental Health, County of San Diego, Edwin Andrus, personal communication, April, 2021.
- Department of Toxic Substance Control EnviroStor website, <http://www.envirostor.dtsc.ca.gov>, 2018.
- Norris, R. M. and Webb, R. W., *Geology of California* (2nd edn). New York: John Wiley & Sons, Inc., 1990.
- United States Geological Survey, *Geologic Map of the Oceanside 30'x60' Quadrangle, California*, 2005.
- United States Geological Survey, *San Marcos, California, 7.5-minute Topographic Map*, 2012.
- United States Department of Agriculture Natural Resources Conservation Service, Web Soil Survey, <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>, 2021.

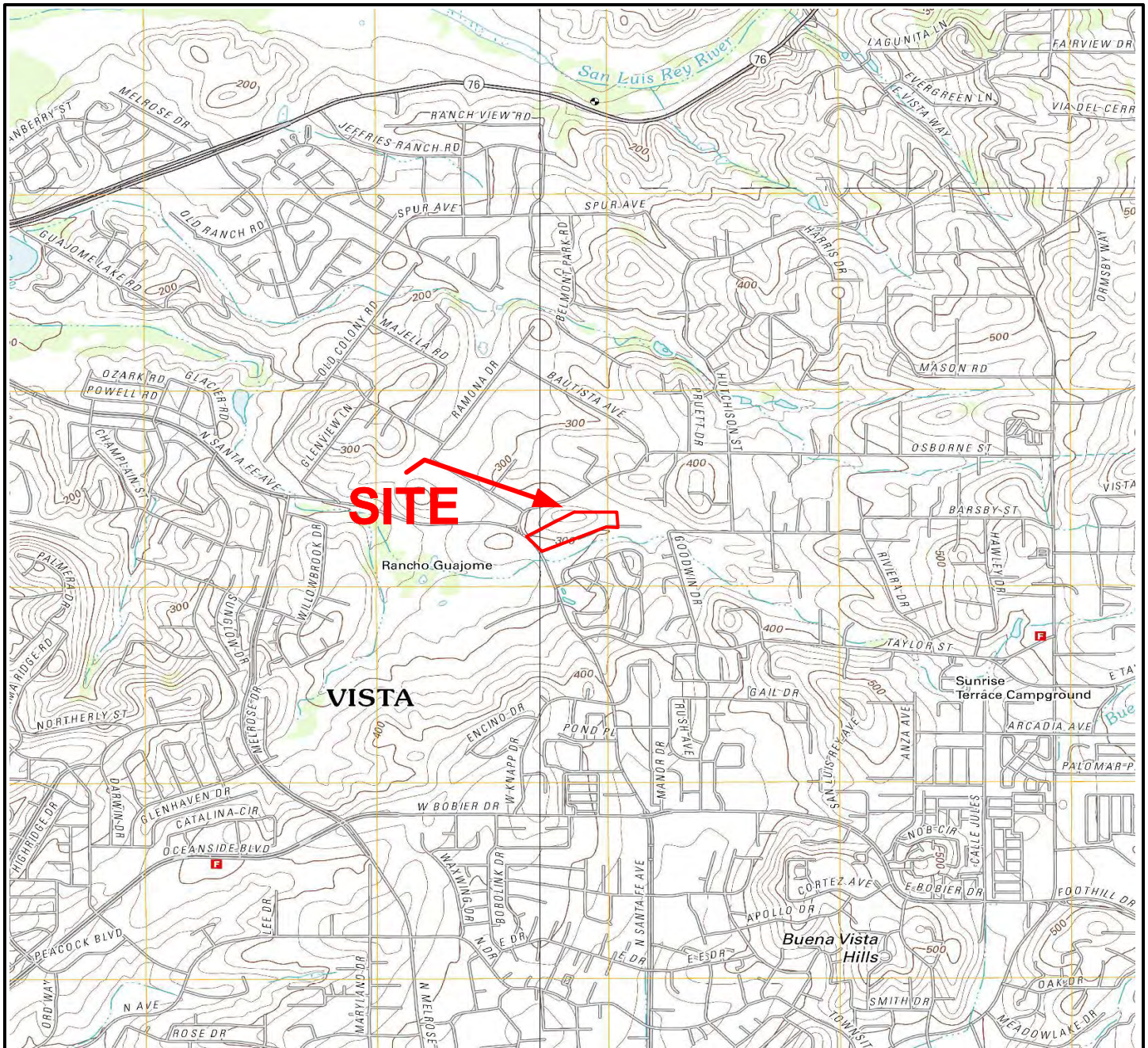
## 12. QUALIFICATIONS

This report was prepared by Cole E. Mikesell with oversight by Troy K. Reist, CEG. We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312. We have the specific qualifications based on education, training, and experience, to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

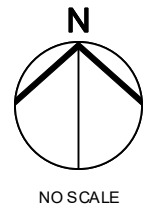
Mr. Mikesell has a BS degree in Geology with an emphasis in Environmental Geosciences. Mr. Mikesell is a certified Geologist-In-Training in the State of California. Mr. Mikesell has 4 years of experience in the geotechnical and environmental field. He has performed exploratory drilling, infiltration testing, foundation and earthworks observation, and prepared Phase I and Phase II ESAs throughout southern California.

Mr. Reist is a Professional Geologist and Certified Engineering Geologist, with a BS degree in Geology and has over 23 years of experience in the geotechnical and environmental consulting industry in California. Mr. Reist investigates, remediates and manages geotechnical and environmental issues on residential, commercial, industrial, and agricultural properties throughout southern California.





Base Map:  
 USGS Topographic Map, 7.5-minute Series  
 San Marcos, CA  
 Scale 1:24,000



NO SCALE

VICINITY MAP

**GEOCON**  
 INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
 6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974  
 PHONE 858 558-6900 - FAX 558-6159

CAMINO LARGO  
 VISTA, CALIFORNIA

CEM

MAY 2021

PROJECT NO. G2721-62-01

FIG. 1





APPROXIMATE SITE BOUNDARY

RESIDENTIAL

RESIDENTIAL

Google Earth  
Google

THE GEOGRAPHICAL INFORMATION MADE AVAILABLE FOR DISPLAY WAS PROVIDED BY GOOGLE EARTH, SUBJECT TO A LICENSING AGREEMENT. THE INFORMATION IS FOR ILLUSTRATIVE PURPOSES ONLY; IT IS NOT INTENDED FOR CLIENT'S USE OR RELIANCE AND SHALL NOT BE REPRODUCED BY CLIENT. CLIENTS SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS GEOCON FROM ANY LIABILITY INCURRED AS A RESULT OF SUCH USE OR RELIANCE BY CLIENT.

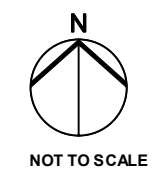
S1

- APPROXIMATE LOCATION OF SOIL SAMPLE

8

- APPROXIMATE LOCATION AND DIRECTION OF PHOTOGRAPH

GEOCON LEGEND



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
 6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974  
 PHONE 858 558-6900 - FAX 558-6159  
 PROJECT NO. G2721-62-01  
 FIGURE 2  
 DATE MAY 2021

SITE PLAN





**Photograph #1**  
**View to the northwest along the western boundary of the Site.**



**Photograph #2**  
**View to the northeast along the southern boundary of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974  
PHONE 858.558-6900 - FAX 858.558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO  
VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**





**Photograph #3**

**View to the southwest of the palm nursery in the western portion of the Site.**



**Photograph #4**

**View to the northwest of the palm nursery in the central portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 297.4  
PHONE 858.558-6900 - FAX 858.558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO  
VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**





**Photograph #5**  
**View to the west along the southern boundary of the Site.**



**Photograph #6**  
**View to the northeast along the northern boundary of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 297.4  
PHONE 858.558-6900 - FAX 858.558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**





**Photograph #7**  
**Irrigation reservoir within the north central portion of the Site.**



**Photograph #8**  
**Remnants of former shed structure in the central portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 297 4  
PHONE 858 558-6900 - FAX 858 558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**





**Photograph #9**  
**Shed/trailer in the western portion of the Site.**



**Photograph #10**  
**Various vehicles, equipment and miscellaneous debris in the western portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974  
PHONE 858 558-6900 - FAX 858 558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**





**Photograph #11**  
**Skip loader in the western portion of the Site.**



**Photograph #12**  
**Bobcat in the western portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974  
PHONE 858 558-6900 - FAX 858 558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

PROJECT NO. G2721-62-01

TKR

MAY 2021





**Photograph #13**  
**RV in the eastern portion of the Site.**



**Photograph #14**  
**Skip loader in the eastern portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974  
PHONE 858.558-6900 - FAX 858.558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**





**Photograph #15**  
**Storage trailer in the western portion of the Site.**



**Photograph #16**  
**Empty storage container in the eastern portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974  
PHONE 858 558-6900 - FAX 858 558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

TKR

MAY 2021

PROJECT NO. G2721-62-01





**Photograph #17**  
**Pole-mounted transformer in the central portion of the Site.**



**Photograph #18**  
**De minimis staining in the western portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974  
PHONE 858.558-6900 - FAX 858.558-6159

TKR

MAY 2021

SITE PHOTOGRAPHS

CAMINO LARGO  
VISTA, CALIFORNIA

PROJECT NO. G2721-62-01





**Photograph #19**  
**De minimus staining in the western portion of the Site.**



**Photograph #20**  
**Staining beneath crane parking area in the western portion of the Site.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 297 4  
PHONE 858.558-6900 - FAX 858.558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**





**Photograph #21**  
**Single-family residence adjacent to the north of the Site.**



**Photograph #22**  
**View to the east of Camino Largo, beyond which are single-family residences.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974  
PHONE 858.558-6900 - FAX 858.558-6159

**SITE PHOTOGRAPHS**

**CAMINO LARGO**  
**VISTA, CALIFORNIA**

**PROJECT NO. G2721-62-01**

**TKR**

**MAY 2021**



**Photograph #23**  
**View to the south of Camino Largo, beyond which is open space and single-family residences.**



**Photograph #24**  
**View to the west of North Santa Fe Avenue, beyond which is a single-family residence.**

**GEOCON**  
INCORPORATED



GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS  
6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121 - 2974  
PHONE 858.558-6900 - FAX 858.558-6159

TKR

MAY 2021

**SITE PHOTOGRAPHS**

**CAMINO LARGO  
VISTA, CALIFORNIA**

PROJECT NO. G2721-62-01

APPENDIX

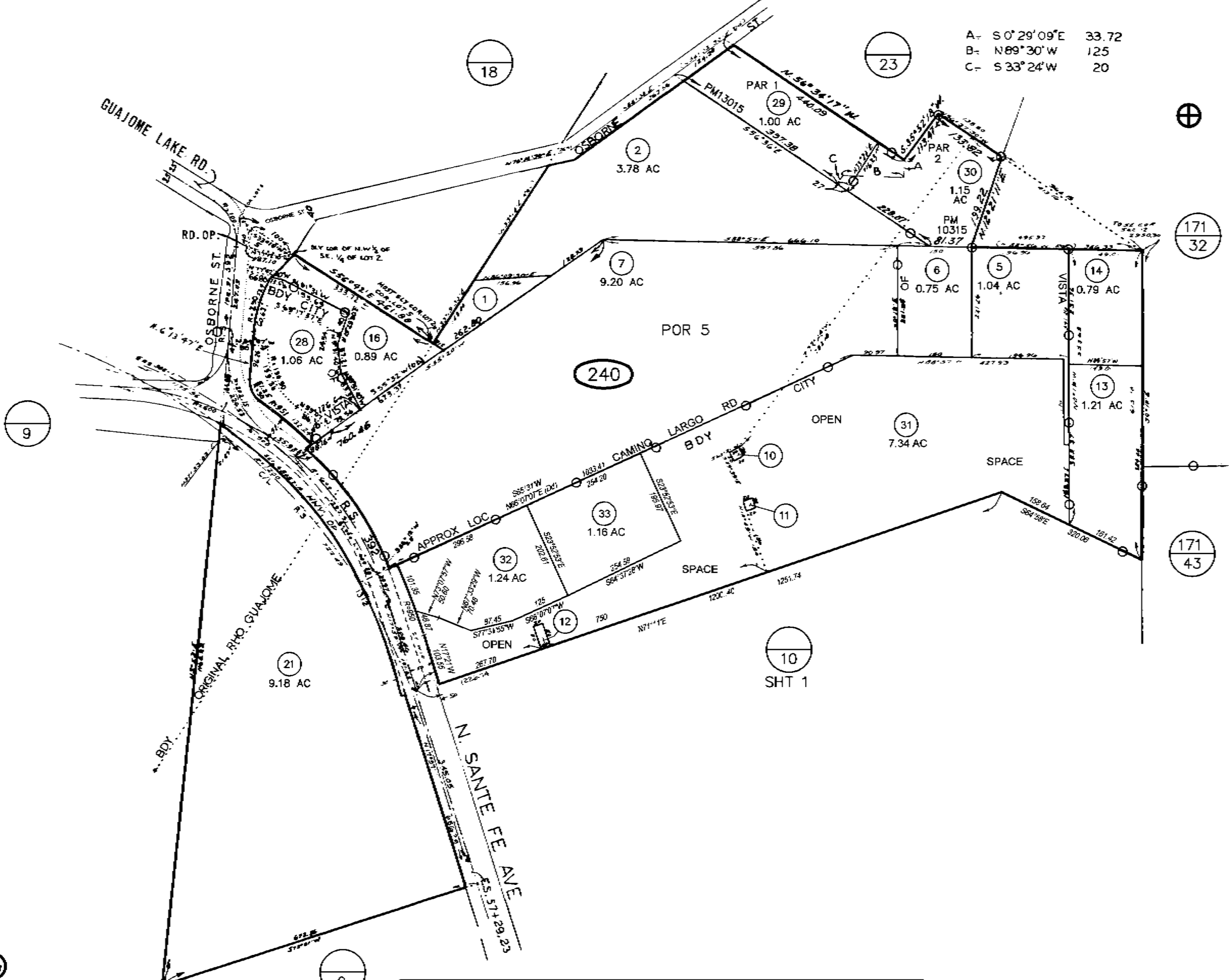
A



A- S 0° 29' 09" E 33.72  
 B- N 89° 30' W 125  
 C- S 33° 24' W 20

1"=200'

159-1524485



12/16/2009 JGD

CHANGES				
BLK	CLD	NEW YR	CUT	
240	20	HWY	70	6129
	9	22	23	726689
18, 19	24	74	6008	
ST. CLERK	24	25	74	6115
3	26	27	84	2980
17	25	28	84	2453
22	23	PG. 10	SMT. 1	87 121
28	AC	CHANGE	88	5585
26	27	29	30	91 1201
15	SAHE & CP	SP	19	5532
15	31-33	10	1407	

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES.

SCC 10201-RANCHO GUAJOME PARTITION  
 ROS 1690, 2185, 3593, 10995, 12781

ES  
 9-19-69  
 SAN DIEGO COUNTY  
 ASSESSOR'S MAP  
 BOOK 159 PAGE 24



APPENDIX



B

**CLIENT-PROVIDED INFORMATION FOR THE SITE**

**SITE: Camino Largo; Project No. G2721-62-01**

**\*Please elaborate on any question answered “yes.” If the question does not apply to the site, please answer “N/A”.**

1. If possible, please provide us with the title, appraisal, or sale agreement records to review and discuss in the Phase I ESA. **Will provide once escrow is opened and we receive a prelim title report**
2. Are you aware of any environmental liens or activity and use limitations associated with the Site? **No**
3. Do you have any specialized knowledge of the Site? **N/A**
4. Please provide any commonly known or reasonably ascertainable information about the Site. **Currently in operation as a nursery**
5. Who currently owns, manages, and operates the Site? **Owner: Kim Family Trust. Choice Nursery is currently operating a nursery on site per a month to month lease**
6. Has the monetary value of the Site been reduced due to environmental issues associated with the Site or adjacent properties? **N/A**
7. Why are you requesting a Phase I ESA for the Site? **CalWest is planning to purchase the property with plans to entitle for ~48 single family homes**

\_\_\_\_\_  
NAME (IN PRINT)

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
COMPANY NAME AND TITLE

**Please feel free to contact me if you have any questions.  
When complete, return the questionnaire via email or fax:**

Troy Reist  
Geocon Incorporated

[reist@geoconinc.com](mailto:reist@geoconinc.com)  
(858) 558-6900 ext 211

**PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE FOR SITE  
OWNER, OCCUPANT, OR REPRESENTATIVE**

**SITE: Camino Largo; Project No. G2721-62-01**

**\*Please elaborate on any question answered “yes.” If the question does not apply to the site, please answer “N/A”.**

**NOTE: ALL QUESTIONS IN THIS QUESTIONNAIRE ARE ANSWERED TO THE BEST OF OUR KNOWLEDGE ONLY. THIS APPLIES TO ALL MY ANSWERS.**

1) Describe the current uses of the Site. nursery

2) How long has the Site been used for these purposes? Years 23 or more

3) How long have you occupied the Site? 23 years.

4) List the existing structures on the property and their age.  
Unknown small shack

5) Describe the past uses, owners, and operators of the Site. (Be as detailed as possible and note approximate time periods.) have no idea. Choice nurser was there as tenant when property purchaed

6) Utilities including electricity, natural gas, water, sewer, and trash removal are provided to the Site by which utility/companies.

Water - yes

Sewer -no

Electricity -don't know

Natural Gas don't know-

Trash don't know

7) What type of heating, ventilating, and air conditioning (HVAC) system is located at the Site and how is the HVAC system powered? None applicable

8) Have the Site or adjoining properties been used for industrial activities, such the following? (Please note that an adjoining property is a property that is contiguous with, or directly across the street from the Site.)

Gasoline Station	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Printing Facility	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Metal Plating Manufacturing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Landfill	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Motor Repair Facility	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Dry Cleaners	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Junkyard	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Waste Treatment	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Storage, Disposal, or Recycling Facility	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Describe other industrial activities, if any.

**9)** Have any hazardous substances, petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or other waste materials been dumped aboveground, buried, or burned on the Site?

Yes  No

**10)** Have any of the following items been stored on the Site in containers greater than 5 gallons?

Paint	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Chemicals	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pesticides	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**11)** Are hazardous wastes generated at the Site? If yes, describe the means of disposal and frequency of disposal.

Yes  No

**12)** Have petroleum products been stored on the Site or transferred across the Site in pipelines, either above or belowground?

Yes  No

**13)** Has fill dirt been brought onto the Site from an offsite source?

Yes  No

**14)** Is there evidence that the fill dirt in Question 13 may be contaminated?

Yes  No

**15)** Are there currently any pits, ponds, or lagoons on the Site?

Yes  No

**16) Have any pits, ponds, or lagoons previously existed on the Site?**

Yes  No there seems to be on top west hill a evidence of aresroir

**17) Are there currently areas on the Site with stained soil?**

Yes  No we had not visited such matter but years back an interested party had said oil from equipment by choice nursery trucks parking

**18) Have stained soils previously existed on the Site?**

Yes  No have no idea

**19) Do chemical-containing underground or aboveground storage tanks exist, or have they existed previously on the Site?**

Yes  No

**20) Do fill pipes, vent pipes, or access ways indicating the presence of current or former underground storage tanks exist on the Site?**

Yes  No

**21) Have fill pipes or vent pipes which may indicate the presence of a current or former underground storage tank been removed from the Site?**

Yes  No

**22) Are floor drains stained with anything other than water in any area on the Site?**

Yes  No

**23) Do floor drains on the Site emit foul odors?**

Yes  No

**24) Is the Site served by a private well or a non-public water source?**

Yes  No

**25) Are contaminants known to exist in any private well or non-public water system serving the Site?**

Yes  No

**26)** Does the Site discharge wastewater, other than domestic wastewater or storm water, into the sewer?

Yes  No

**27)** Other than permission for domestic hookup, have any city, county, or local permits for wastewater discharge been issued to the Site?

Yes  No

**28)** Does a septic tank exist, or has one existed previously on the Site?

Yes  No

**29)** Do cesspools or cisterns currently exist on the Site?

Yes  No

**30)** Have cesspools or cisterns previously existed on the Site?

Yes  No

**31)** Other than storm water, does the Site discharge waste water onto the neighboring Site?

Yes  No

**32)** Is there a transformer or capacitor that may contain PCBs on the Site?

Yes  No

**33)** Is there hydraulic equipment such as automobile lifts or elevators on the Site?

Yes  No

**34)** Are PCBs contained in hydraulic oil associated with hydraulic equipment located on the Site?

Yes  No

**35)** Has an asbestos and/or lead-based paint survey been conducted at the Site? If so, what were the findings?

Yes  No

**36)** Other than small quantities of legal pesticides used for landscape maintenance (e.g., Roundup), have pesticides, herbicides, or insecticides been applied on the Site?

Yes  No you must ask choice nursery

**37)** Are you aware of any environmental liens against the Site that are filed or recorded under federal, tribal, state, or local law?

Yes  No

**38)** Have any environmental violations or citations associated with activities conducted on the Site been issued?

Yes  No

**39)** Has the Site been included in other environmental assessments? If so, can copies of the reports be provided?

Yes  No

**40)** Have other environmental assessments identified hazardous substances or petroleum products that exist, or may have existed on the Site?

Yes  No

**41)** Are there any pending lawsuits that involve the release or threatened release of hazardous substances associated with the Site?

Yes  No

**42)** Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place on the Site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

Yes  No

**43)** Are you aware of any commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of hazardous substance releases or threatened hazardous substance releases?

Yes  No



44) Do you have any specialized knowledge or experience related to the Site or nearby properties, including the knowledge of the chemicals and processes used by this type of business?

Yes  No

45) Based in your knowledge or experience related to the Site, are there any obvious indicators that point to the presence or likely presence of contamination at the Site?

Yes  No

46) If the purchase price of the Site was below fair market value, did this occur because contamination was/is known or believed to be present on the Site?

Yes  No  N/A

Frank sohaei

04-20-2021

\_\_\_\_\_  
NAME (IN PRINT)

\_\_\_\_\_  
DATE

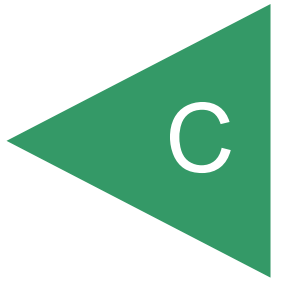
\_\_\_\_\_  
SIGNATURE

Owner  Occupant  Owner Representative

**Please feel free to contact me if you have any questions.  
When complete, return the questionnaire via email or fax:**

Mr. Cole Mikesell  
Geocon Incorporated  
[cmikesell@geoconinc.com](mailto:cmikesell@geoconinc.com)  
(619) 788-3750 PHONE

APPENDIX



**Camino Largo**  
N. Sante Fe Ave  
Vista, CA 92084

Inquiry Number: 6456522.2s  
April 20, 2021

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	9
Orphan Summary .....	20
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-14
Physical Setting Source Map Findings .....	A-16
Physical Setting Source Records Searched .....	PSGR-1

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

#### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## 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

N. SANTE FE AVE  
VISTA, CA 92084

#### COORDINATES

Latitude (North): 33.2343540 - 33° 14' 3.67"  
Longitude (West): 117.2484870 - 117° 14' 54.55"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 476848.4  
UTM Y (Meters): 3677103.5  
Elevation: 342 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641320 SAN MARCOS, CA
Version Date:	2012
Northeast Map:	5641328 BONSALL, CA
Version Date:	2012
Southwest Map:	5641318 SAN LUIS REY, CA
Version Date:	2012
Northwest Map:	5640252 MORRO HILL, CA
Version Date:	2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140603  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
 N. SANTE FE AVE  
 VISTA, CA 92084

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	CAMINO LARGO ELEMENT	NORTH SANTA FE AVENU	CERS		TP
<a href="#">A2</a>	CAMINO LARGO ELEMENT	NORTH SANTA FE AVENU	ENVIROSTOR, SCH		TP
<a href="#">3</a>	MARILYN LACBOW	2255 GUAJOME LAKE RD	RCRA NonGen / NLR	Lower	1150, 0.218, NW
<a href="#">4</a>	RICHARDSON PROPERTY	2405 N SANTA FE AV	ENVIROSTOR, SAN DIEGO CO. SAM, CPS-SLIC, San Diego...	Lower	1865, 0.353, West

# EXECUTIVE SUMMARY

## **TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CAMINO LARGO ELEMENT NORTH SANTA FE AVENU VISTA, CA 92084	CERS	N/A
CAMINO LARGO ELEMENT NORTH SANTA FE AVENU VISTA, CA 92084	ENVIROSTOR Facility Id: 37010049 Status: Inactive - Withdrawn  SCH Facility Id: 37010049 Status: Inactive - Withdrawn	N/A

## **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

## EXECUTIVE SUMMARY

### ***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

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

### ***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



## EXECUTIVE SUMMARY

### **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
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
IHS OPEN DUMPS.....	Open Dumps on Indian Land

### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL.....	Delisted National Clandestine Laboratory Register
HIST Cal-Sites.....	Historical Calsites Database
CDL.....	Clandestine Drug Labs
San Diego Co. HMMD.....	Hazardous Materials Management Division Database
CERS HAZ WASTE.....	CERS HAZ WASTE
Toxic Pits.....	Toxic Pits Cleanup Act Sites
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
CA FID UST.....	Facility Inventory Database
CERS TANKS.....	California Environmental Reporting System (CERS) Tanks

### **Local Land Records**

LIENS.....	Environmental Liens Listing
LIENS 2.....	CERCLA Lien Information
DEED.....	Deed Restriction Listing

### **Records of Emergency Release Reports**

HMIRS.....	Hazardous Materials Information Reporting System
CHMIRS.....	California Hazardous Material Incident Report System
LDS.....	Land Disposal Sites Listing
MCS.....	Military Cleanup Sites Listing
SPILLS 90.....	SPILLS 90 data from FirstSearch

### **Other Ascertainable Records**

FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision

## EXECUTIVE SUMMARY

RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
ECHO.....	Enforcement & Compliance History Information
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
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
SAN DIEGO CO LOP.....	Local Oversight Program Listing
CIWQS.....	California Integrated Water Quality System

## EXECUTIVE SUMMARY

NON-CASE INFO..... NON-CASE INFO (GEOTRACKER)  
OTHER OIL GAS..... OTHER OIL & GAS (GEOTRACKER)  
PROD WATER PONDS..... PROD WATER PONDS (GEOTRACKER)  
SAMPLING POINT..... SAMPLING POINT (GEOTRACKER)  
WELL STIM PROJ..... Well Stimulation Project (GEOTRACKER)  
MINES MRDS..... Mineral Resources Data System  
HWTS..... Hazardous Waste Tracking System

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants  
EDR Hist 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 is

## EXECUTIVE SUMMARY

1 ENVIROSTOR site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RICHARDSON PROPERTY</b> Facility Id: 37000019 Status: Refer: 1248 Local Agency	<b>2405 N SANTA FE AV</b>	<b>W 1/4 - 1/2 (0.353 mi.)</b>	<b>4</b>	<b>14</b>

### **State and tribal leaking storage tank lists**

SAN DIEGO CO. SAM: 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.

A review of the SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there is 1 SAN DIEGO CO. SAM site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RICHARDSON PROPERTY</b> Case Number: H39647-001 Facility Status: Closed Case	<b>2405 N SANTA FE AV</b>	<b>W 1/4 - 1/2 (0.353 mi.)</b>	<b>4</b>	<b>14</b>

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there is 1 CPS-SLIC site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RICHARDSON PROPERTY</b> Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Completed - Case Closed Global Id: T06019793621	<b>2405 N SANTA FE AV</b>	<b>W 1/4 - 1/2 (0.353 mi.)</b>	<b>4</b>	<b>14</b>

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Other Ascertainable Records**

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/14/2020 has revealed that

## EXECUTIVE SUMMARY

there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARILYN LACBOW	2255 GUAJOME LAKE RD	NW 1/8 - 1/4 (0.218 mi.)	3	12

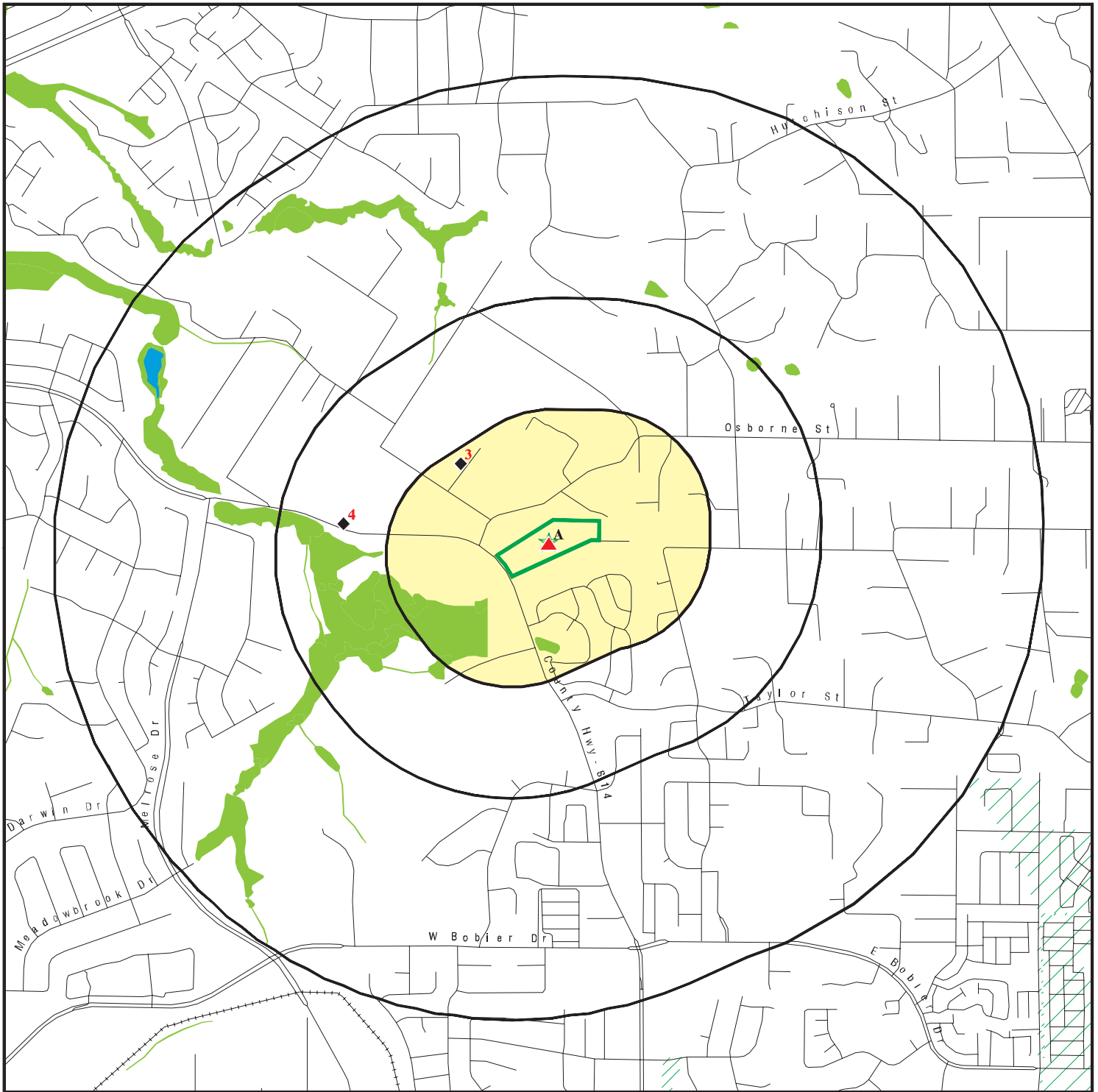
## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name  
SANESCO OIL

Database(s)  
LUST

# OVERVIEW MAP - 6456522.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

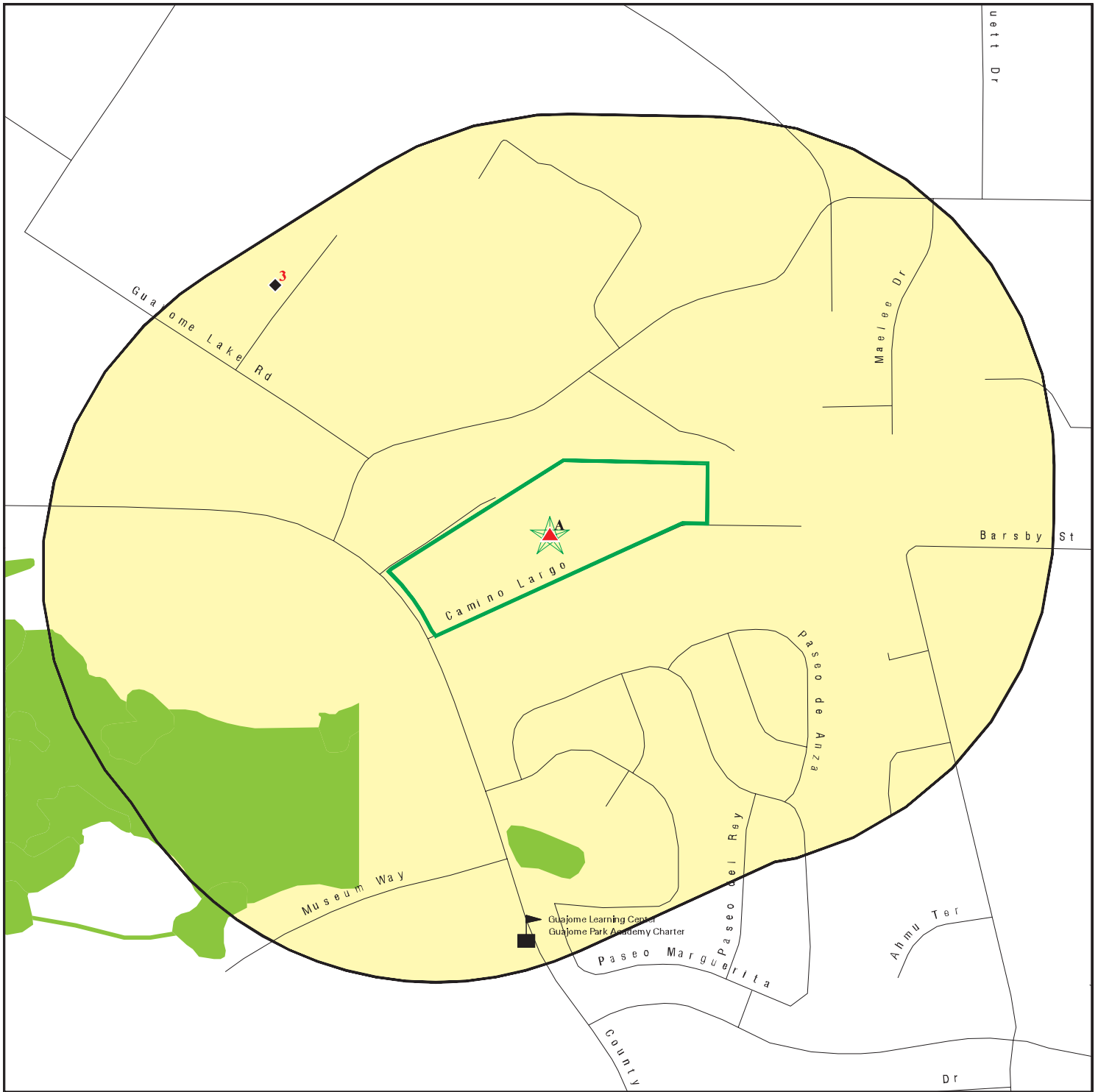









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.







SITE NAME: Camino Largo  
 ADDRESS: N. Sante Fe Ave  
 Vista CA 92084  
 LAT/LONG: 33.234354 / 117.248487

CLIENT: Geocon Env. Consultants, Inc.  
 CONTACT: Cole Mikesell  
 INQUIRY #: 6456522.2s  
 DATE: April 20, 2021 11:35 am

# DETAIL MAP - 6456522.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  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.

<p><b>SITE NAME:</b> Camino Largo  <b>ADDRESS:</b> N. Sante Fe Ave                  Vista CA 92084  <b>LAT/LONG:</b> 33.234354 / 117.248487</p>	<p><b>CLIENT:</b> Geocon Env. Consultants, Inc.  <b>CONTACT:</b> Cole Mikesell  <b>INQUIRY #:</b> 6456522.2s  <b>DATE:</b> April 20, 2021 11:36 am</p>
---	--



## 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
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
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
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
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
<b><i>Federal institutional controls / engineering controls registries</i></b>								
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
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL RESPONSE</i></b>								
RESPONSE	1.000		0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i></b>								
ENVIROSTOR	1.000	1	0	0	1	0	NR	2
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
SAN DIEGO CO. SAM	0.500		0	0	1	NR	NR	1

## 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
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	1	NR	NR	1
<b>State and tribal registered storage tank lists</b>								
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
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
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
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
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	1	0	0	NR	NR	NR	1
CDL	0.001		0	NR	NR	NR	NR	0
San Diego Co. HMMD	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
<b>Local Land Records</b>								
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
<b>Records of Emergency Release Reports</b>								
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
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
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
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	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
SAN DIEGO CO LOP	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001	1	0	NR	NR	NR	NR	1
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		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 --		3	0	1	3	0	0	7
-------------	--	---	---	---	---	---	---	---

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 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

**A1**  
**Target**  
**Property**

**CAMINO LARGO ELEMENT**  
**NORTH SANTA FE AVENUE/OSBORNE STREET**  
**VISTA, CA 92084**

**CERS**    **S123509824**  
**N/A**

**Site 1 of 2 in cluster A**

**Actual:**  
**342 ft.**

**CERS:**  
 Name: CAMINO LARGO ELEMENT  
 Address: NORTH SANTA FE AVENUE/OSBORNE STREET  
 City,State,Zip: VISTA, CA 92084  
 Site ID: 335654  
 CERS ID: 37010049  
 CERS Description: School Investigation

**Affiliation:**  
 Affiliation Type Desc: Supervisor  
 Entity Name: \* Rafat Abbasi  
 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

**A2**  
**Target**  
**Property**

**CAMINO LARGO ELEMENTARY SCHOOL**  
**NORTH SANTA FE AVENUE/OSBORNE STREET**  
**VISTA, CA 92084**

**ENVIROSTOR**    **S107027275**  
**SCH**    **N/A**

**Site 2 of 2 in cluster A**

**Actual:**  
**342 ft.**

**ENVIROSTOR:**  
 Name: CAMINO LARGO ELEMENTARY SCHOOL  
 Address: NORTH SANTA FE AVENUE/OSBORNE STREET  
 City,State,Zip: VISTA, CA 92084  
 Facility ID: 37010049  
 Status: Inactive - Withdrawn  
 Status Date: 09/22/2003  
 Site Code: 404468  
 Site Type: School Investigation  
 Site Type Detailed: School  
 Acres: 9  
 NPL: NO  
 Regulatory Agencies: SMBRP  
 Lead Agency: SMBRP  
 Program Manager: Not reported  
 Supervisor: \* Rafat Abbasi  
 Division Branch: Southern California Schools & Brownfields Outreach  
 Assembly: 75  
 Senate: 36  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: School District  
 Latitude: 33.2235  
 Longitude: -117.2044  
 APN: NONE SPECIFIED  
 Past Use: AGRICULTURAL - ROW CROPS  
 Potential COC: NONE SPECIFIED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CAMINO LARGO ELEMENTARY SCHOOL (Continued)**

**S107027275**

Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: VISTA USD-PRPSD CAMINO LARGO ELEM SCHOOL  
Alias Type: Alternate Name  
Alias Name: 404468  
Alias Type: Project Code (Site Code)  
Alias Name: 37010049  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 09/09/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 09/22/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Inactive Status Letter  
Completed Date: 09/15/2003  
Comments: Vista Unified School District submitted an application to DTSC to initiate the Preliminary Endangerment Assessment process for the Proposed Large Elementary School and prepare an Environmental Oversight Agreement. The Agreement was never executed. DTSC received notice from the School District via electronic mail on September 15, 2003 that they are no longer pursuing site acquisition and requested termination of the project.

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: CAMINO LARGO ELEMENTARY SCHOOL  
Address: NORTH SANTA FE AVENUE/OSBORNE STREET  
City,State,Zip: VISTA, CA 92084  
Facility ID: 37010049  
Site Type: School Investigation  
Site Type Detail: School  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 9  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CAMINO LARGO ELEMENTARY SCHOOL (Continued)**

**S107027275**

Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Not reported  
Supervisor: \* Rafat Abbasi  
Division Branch: Southern California Schools & Brownfields Outreach  
Site Code: 404468  
Assembly: 75  
Senate: 36  
Special Program Status: Not reported  
Status: Inactive - Withdrawn  
Status Date: 09/22/2003  
Restricted Use: NO  
Funding: School District  
Latitude: 33.2235  
Longitude: -117.2044  
APN: NONE SPECIFIED  
Past Use: AGRICULTURAL - ROW CROPS  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: VISTA USD-PRPSD CAMINO LARGO ELEM SCHOOL  
Alias Type: Alternate Name  
Alias Name: 404468  
Alias Type: Project Code (Site Code)  
Alias Name: 37010049  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Inspections/Visit (Non LUR)  
Completed Date: 09/09/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 09/22/2003  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Inactive Status Letter  
Completed Date: 09/15/2003  
Comments: Vista Unified School District submitted an application to DTSC to initiate the Preliminary Endangerment Assessment process for the Proposed Large Elementary School and prepare an Environmental Oversight Agreement. The Agreement was never executed. DTSC received notice from the School District via electronic mail on September 15, 2003 that they are no longer pursuing site acquisition and requested termination of the project.

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



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CAMINO LARGO ELEMENTARY SCHOOL (Continued)**

**S107027275**

Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**3**  
**NW**  
**1/8-1/4**  
**0.218 mi.**  
**1150 ft.**

**MARILYN LACBOW**  
**2255 GUAJOME LAKE RD**  
**VISTA, CA 92084**

**RCRA NonGen / NLR**

**1026168031**  
**CAC003068076**

**Relative:**  
**Lower**

RCRA NonGen / NLR:

**Actual:**  
**306 ft.**

Date Form Received by Agency:	MARILYN LACBOW	2020-05-25 00:00:00.0
Handler Name:		
Handler Address:		2255 GUAJOME LAKE RD
Handler City,State,Zip:		VISTA, CA 92084
EPA ID:		CAC003068076
Contact Name:		MARILYN LACBOW
Contact Address:		2255 GUAJOME LAKE RD
Contact City,State,Zip:		VISTA, CA 92084
Contact Telephone:		760-216-8824
Contact Fax:		Not reported
Contact Email:		VANESSAPIZARRO@ALLIANCE-ENVIRO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		2255 GUAJOME LAKE RD
Mailing City,State,Zip:		VISTA, CA 92084
Owner Name:		MARILYN LACBOW
Owner Type:		Other
Operator Name:		MARILYN LACBOW
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MARILYN LACBOW (Continued)**

**1026168031**

Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-06-08 20:36:24.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MARILYN LACBOW
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2255 GUAJOME LAKE RD
Owner/Operator City,State,Zip:	VISTA, CA 92084
Owner/Operator Telephone:	760-216-8824
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARILYN LACBOW
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2255 GUAJOME LAKE RD
Owner/Operator City,State,Zip:	VISTA, CA 92084
Owner/Operator Telephone:	760-216-8824

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MARILYN LACBOW (Continued)**

**1026168031**

Owner/Operator Telephone Ext: Not reported  
 Owner/Operator Fax: Not reported  
 Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2020-05-25 00:00:00.0  
 Handler Name: MARILYN LACBOW  
 Federal Waste Generator Description: Not a generator, verified  
 State District Owner: Not reported  
 Large Quantity Handler of Universal Waste: No  
 Recognized Trader Importer: No  
 Recognized Trader Exporter: No  
 Spent Lead Acid Battery Importer: No  
 Spent Lead Acid Battery Exporter: No  
 Current Record: Yes  
 Non Storage Recycler Activity: Not reported  
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299  
 NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**4**  
**West**  
**1/4-1/2**  
**0.353 mi.**  
**1865 ft.**

**RICHARDSON PROPERTY**  
**2405 N SANTA FE AV**  
**VISTA, CA 92084**

**ENVIROSTOR**  
**SAN DIEGO CO. SAM**  
**CPS-SLIC**  
**San Diego Co. HMMD**  
**CERS**

**S106875067**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**244 ft.**

ENVIROSTOR:  
 Name: RICHARDSON PROPERTY  
 Address: 2405 N. SANTA FE AVENUE  
 City,State,Zip: VISTA, CA 92084  
 Facility ID: 37000019  
 Status: Refer: 1248 Local Agency  
 Status Date: 03/24/2004  
 Site Code: Not reported  
 Site Type: Evaluation  
 Site Type Detailed: Evaluation  
 Acres: Not reported  
 NPL: NO  
 Regulatory Agencies: NONE SPECIFIED  
 Lead Agency: NONE SPECIFIED  
 Program Manager: Not reported  
 Supervisor: Referred - Not Assigned  
 Division Branch: Cleanup Cypress  
 Assembly: 76  
 Senate: 36  
 Special Program: Not reported  
 Restricted Use: NO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RICHARDSON PROPERTY (Continued)**

**S106875067**

Site Mgmt Req: NONE SPECIFIED  
Funding: Not Applicable  
Latitude: 33.23610  
Longitude: -117.2553  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: T06019793621  
Alias Type: GeoTracker Global ID  
Alias Name: 37000019  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported  
Completed Sub Area Name: Not reported  
Completed Document Type: Not reported  
Completed Date: Not reported  
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

SAN DIEGO CO. SAM:

Name: RICHARDSON PROPERTY  
Address: 2405 N SANTA FE AV  
City,State,Zip: VISTA, CA 92084  
Case Number: H39647-001  
Agency: DEH Site Assessment & Mitigation  
**Funding: Private - VAP**  
Facility Type: Soils Only  
Facility Status: Closed Case  
Date: 6/24/2004  
Date Began: Not reported

CPS-SLIC:

Name: RICHARDSON PROPERTY  
Address: 2405 N SANTA FE AV  
City,State,Zip: VISTA, CA 92084  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 06/24/2004  
Global Id: T06019793621  
Lead Agency: SAN DIEGO COUNTY LOP  
Lead Agency Case Number: H39647-001  
Latitude: 33.235764  
Longitude: -117.255535  
Case Type: Cleanup Program Site  
Case Worker: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RICHARDSON PROPERTY (Continued)**

**S106875067**

Local Agency: Not reported  
RB Case Number: Not reported  
File Location: Local Agency  
Potential Media Affected: Soil  
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**HMMD SAN DIEGO:**

Name: AT&T MOBILITY - NORTH COAST CHURCH (USID110132)  
Address: 2405 N SANTA FE AVE  
City,State,Zip: VISTA, CA 92084  
Permit Number: Not reported  
Business Type: Not reported  
EPA Id Number: Not reported  
APN: Not reported  
Last HMMD Inspection: Not reported  
Facility Telephone: (800) 638-2822  
Permit Status: Permit Renewed  
Permit Expiration: Not reported  
Date Last Updated: 06/17/2020  
Facility Owner: Not reported  
Facility Mailing Address: 308 S. Akard St., 17th Floor, Dallas, TX 75202  
Facility Mailing City: Not reported  
Facility Mailing State: Not reported  
Facility Mailing Zip: Not reported  
UST Owner: N  
Handle Regulated Hazmat: Not reported  
Own Or Operate UST: Not reported  
Subject To APSA: Not reported  
Generate Haz Waste: N  
Treat Haz Waste: N  
Generate Medical Waste: Not reported

**Waste and Materials:**

Record ID: DEH2014-HUPFP-000700  
Permit Status: Permit Renewed  
Active Permit: Y  
Child Record Id: DEH2016-HCHEM-0112693  
Trade Secret: N  
Hazardous Material Type: Mixture  
Last Updated: 2017-03-04T02:17:03.000  
Chemical Name: Lead-Acid Batteries  
Common Name: Lead-Acid Batteries  
Case Number: Not reported

Record ID: DEH2014-HUPFP-000700  
Permit Status: Permit Renewed  
Active Permit: Y  
Child Record Id: DEH2018-HCHEM-0189036  
Trade Secret: N  
Hazardous Material Type: Mixture  
Last Updated: 2019-03-13T03:32:47.000  
Chemical Name: Lead Acid Batteries  
Common Name: Lead Acid Batteries  
Case Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RICHARDSON PROPERTY (Continued)**

**S106875067**

Record ID: DEH2014-HUPFP-000700  
Permit Status: Permit Renewed  
Active Permit: Y  
Child Record Id: DEH2018-HCHEM-0167071  
Trade Secret: N  
Hazardous Material Type: Mixture  
Last Updated: 2018-04-09T16:34:07.000  
Chemical Name: Lead-Acid Batteries  
Common Name: Lead-Acid Batteries  
Case Number: Not reported

Record ID: DEH2014-HUPFP-000700  
Permit Status: Permit Renewed  
Active Permit: Y  
Child Record Id: DEH2019-HCHEM-0225816  
Trade Secret: N  
Hazardous Material Type: Mixture  
Last Updated: 2020-03-12T02:31:41.000  
Chemical Name: Lead Acid Batteries  
Common Name: Lead Acid Batteries  
Case Number: Not reported

Record ID: DEH2014-HUPFP-000700  
Permit Status: Permit Renewed  
Active Permit: Y  
Child Record Id: DEH2017-HCHEM-0151028  
Trade Secret: N  
Hazardous Material Type: Mixture  
Last Updated: 2017-08-19T00:54:45.000  
Chemical Name: Lead-Acid Batteries  
Common Name: Lead-Acid Batteries  
Case Number: Not reported

**CERS:**

Name: AT&T MOBILITY - NORTH COAST CHURCH (USID110132)  
Address: 2405 N SANTA FE AVE  
City,State,Zip: VISTA, CA 92084  
Site ID: 95170  
CERS ID: 10456522  
CERS Description: Chemical Storage Facilities

**Evaluation:**

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 01-30-2018  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspector: Eivaz Chantal Inspection ID:5842577  
Eval Division: San Diego County Department of Env Health  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 02-04-2016  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspector: Khan Steven Inspection ID:5431555

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RICHARDSON PROPERTY (Continued)**

**S106875067**

Eval Division: San Diego County Department of Env Health  
Eval Program: HMRRP  
Eval Source: CERS  
  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-29-2020  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Inspector: Quintong Sean Inspection ID:6371811  
Eval Division: San Diego County Department of Env Health  
Eval Program: HMRRP  
Eval Source: CERS

Affiliation:

Affiliation Type Desc: Environmental Contact  
Entity Name: AT&T EH&S Hotline - Option #1  
Entity Title: Not reported  
Affiliation Address: 308 S. Akard St., 17th Floor  
Affiliation City: Dallas  
Affiliation State: TX  
Affiliation Country: Not reported  
Affiliation Zip: 75202  
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 308 S. Akard St., 17th Floor  
Affiliation City: Dallas  
Affiliation State: TX  
Affiliation Country: Not reported  
Affiliation Zip: 75202  
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer  
Entity Name: Jeremy McGrue  
Entity Title: National EPCRA Manager  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: Operator  
Entity Name: AT&T Mobility  
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: (800) 566-9347

Affiliation Type Desc: Parent Corporation  
Entity Name: AT&T Mobility  
Entity Title: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RICHARDSON PROPERTY (Continued)**

**S106875067**

Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer  
Entity Name: Peter Burnell, Sigma Consultants, Inc.  
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: CUPA District  
Entity Name: San Diego County Env Health  
Entity Title: Not reported  
Affiliation Address: PO Box 129261  
Affiliation City: San Diego  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92112-9261  
Affiliation Phone: (858) 505-6880

Affiliation Type Desc: Legal Owner  
Entity Name: New Cingular Wireless PCS, LLC dba AT&T Mobility  
Entity Title: Not reported  
Affiliation Address: 308 S. Akard St., 17th Floor  
Affiliation City: Dallas  
Affiliation State: TX  
Affiliation Country: United States  
Affiliation Zip: 75202  
Affiliation Phone: (214) 464-1712

Name: RICHARDSON PROPERTY  
Address: 2405 N SANTA FE AV  
City,State,Zip: VISTA, CA 92084  
Site ID: 246326  
CERS ID: T06019793621  
CERS Description: Cleanup Program Site



Count: 1 records.

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
VISTA	S104494721	SANESCO OIL	730 SANTE FE AVE S	92084	LUST

# 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: 04/01/2021
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: 04/01/2021
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: 04/01/2021  
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: 04/01/2021  
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: 04/01/2021
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: 02/08/2021
Number of Days to Update: 39	Next Scheduled EDR Contact: 05/24/2021
	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: 01/26/2021

Next Scheduled EDR Contact: 05/10/2021

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: 01/26/2021

Next Scheduled EDR Contact: 05/10/2021

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: 11/09/2020

Date Data Arrived at EDR: 11/10/2020

Date Made Active in Reports: 01/14/2021

Number of Days to Update: 65

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 02/09/2021

Next Scheduled EDR Contact: 05/24/2021

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: 12/16/2020  
Next Scheduled EDR Contact: 05/03/2021  
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: 12/16/2020  
Next Scheduled EDR Contact: 05/03/2021  
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: 12/16/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/03/2021
	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: 12/16/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/03/2021
	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: 12/16/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/03/2021
	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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 12/16/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/03/2021
	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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 12/16/2020  
Next Scheduled EDR Contact: 05/03/2021  
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: 12/16/2020  
Next Scheduled EDR Contact: 05/03/2021  
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	Source: EPA Region 10
Date Data Arrived at EDR: 12/16/2020	Telephone: 206-553-2857
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 12/15/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/03/2021
	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	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-7591
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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	Source: EPA Region 8
Date Data Arrived at EDR: 12/16/2020	Telephone: 303-312-6137
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 12/16/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/03/2021
	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	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2020	Telephone: 415-972-3368
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 12/16/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/03/2021
	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	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: 12/16/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/03/2021
	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	Source: EPA Region 5
Date Data Arrived at EDR: 12/16/2020	Telephone: 312-886-6136
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 12/16/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 05/03/2021
	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: 01/26/2021  
Next Scheduled EDR Contact: 05/10/2021  
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: 01/25/2021
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/10/2021
	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: 02/08/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/24/2021
	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: 01/25/2021
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/10/2021
	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	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 01/29/2021
Number of Days to Update: 176	Next Scheduled EDR Contact: 05/10/2021
	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	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/09/2020	Telephone: 202-307-1000
Date Made Active in Reports: 03/02/2021	Last EDR Contact: 02/22/2021
Number of Days to Update: 83	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	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/26/2021	Telephone: 916-323-3400
Date Made Active in Reports: 04/13/2021	Last EDR Contact: 01/26/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/10/2021
	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-255-6504
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 04/14/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/19/2021
	Data Release Frequency: Varies

### TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/20/2021	Source: CalEPA
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-323-2514
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 01/20/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Quarterly

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/07/2020	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/09/2020	Telephone: 202-307-1000
Date Made Active in Reports: 03/02/2021	Last EDR Contact: 02/22/2021
Number of Days to Update: 83	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 02/22/2021	Last EDR Contact: 02/24/2021
Number of Days to Update: 76	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/05/2020  
Date Data Arrived at EDR: 11/06/2020  
Date Made Active in Reports: 01/26/2021  
Number of Days to Update: 81

Source: San Francisco County Department of Public Health  
Telephone: 415-252-3896  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
Data Release Frequency: Varies

## CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 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: 01/20/2021  
Next Scheduled EDR Contact: 05/03/2021  
Data Release Frequency: Quarterly

## CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994  
Date Data Arrived at EDR: 09/05/1995  
Date Made Active in Reports: 09/29/1995  
Number of Days to Update: 24

Source: California Environmental Protection Agency  
Telephone: 916-341-5851  
Last EDR Contact: 12/28/1998  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## Local Land Records

### LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/24/2020  
Date Data Arrived at EDR: 11/30/2020  
Date Made Active in Reports: 02/10/2021  
Number of Days to Update: 72

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/26/2021  
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  
Date Data Arrived at EDR: 01/14/2021  
Date Made Active in Reports: 02/18/2021  
Number of Days to Update: 35

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 04/01/2021  
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: 01/20/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	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: 02/09/2021  
Next Scheduled EDR Contact: 05/24/2021  
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: 02/02/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 02/05/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 01/21/2021  
Next Scheduled EDR Contact: 05/03/2021  
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: 04/01/2021  
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: 11/02/2020  
Date Data Arrived at EDR: 11/12/2020  
Date Made Active in Reports: 01/25/2021  
Number of Days to Update: 74

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: 03/11/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 05/17/2021
	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: 08/05/2020	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/10/2020	Telephone: 301-415-7169
Date Made Active in Reports: 10/08/2020	Last EDR Contact: 04/16/2021
Number of Days to Update: 59	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: 02/05/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/17/2021
	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: 01/27/2021  
Next Scheduled EDR Contact: 05/10/2021  
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: 02/02/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 04/01/2021  
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 Admini  
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

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 07/02/2020  
Date Made Active in Reports: 09/17/2020  
Number of Days to Update: 77

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 04/13/2021  
Next Scheduled EDR Contact: 07/26/2021  
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

## 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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2020	Telephone: 202-564-0527
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 02/26/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/06/2021
	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

## DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 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

## 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: 01/20/2021  
Next Scheduled EDR Contact: 05/03/2021  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2020  
Date Data Arrived at EDR: 11/13/2020  
Date Made Active in Reports: 01/29/2021  
Number of Days to Update: 77

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 02/08/2021  
Next Scheduled EDR Contact: 05/24/2021  
Data Release Frequency: Varies

## HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019  
Date Data Arrived at EDR: 04/15/2020  
Date Made Active in Reports: 07/02/2020  
Number of Days to Update: 78

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 04/09/2021  
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: 11/13/2020  
Date Data Arrived at EDR: 11/13/2020  
Date Made Active in Reports: 02/01/2021  
Number of Days to Update: 80

Source: Department of Toxic Substances Control  
Telephone: 877-786-9427  
Last EDR Contact: 02/17/2021  
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 [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001  
Date Data Arrived at EDR: 01/22/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 76

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 01/22/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/13/2020  
Date Data Arrived at EDR: 11/13/2020  
Date Made Active in Reports: 02/01/2021  
Number of Days to Update: 80

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/17/2021  
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  
Date Data Arrived at EDR: 01/05/2021  
Date Made Active in Reports: 03/18/2021  
Number of Days to Update: 72

Source: Department of Toxic Substances Control  
Telephone: 916-440-7145  
Last EDR Contact: 04/06/2021  
Next Scheduled EDR Contact: 07/19/2021  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## 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: 11/09/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/10/2020	Telephone: 916-445-9379
Date Made Active in Reports: 01/27/2021	Last EDR Contact: 02/09/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/24/2021
	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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 03/08/2021	Source: State Water Resource 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

## 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	Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 01/07/2020	Telephone: 559-445-5577
Date Made Active in Reports: 03/09/2020	Last EDR Contact: 04/09/2021
Number of Days to Update: 62	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 02/16/2021
Number of Days to Update: 9	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	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 03/19/2021
Number of Days to Update: 13	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	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

## PROJECT: Project Sites (GEOTRACKER)

Projects 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

## WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021  
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: 01/20/2021  
Next Scheduled EDR Contact: 05/03/2021  
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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

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

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 55

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 03/31/2021  
Next Scheduled EDR Contact: 07/19/2021  
Data Release Frequency: Semi-Annually

## 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 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

## MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## 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: 10/13/2020  
Date Data Arrived at EDR: 10/14/2020  
Date Made Active in Reports: 11/03/2020  
Number of Days to Update: 20

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

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### ***Exclusive Recovered Govt. Archives***

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/13/2014  
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019  
Date Data Arrived at EDR: 01/11/2019  
Date Made Active in Reports: 03/05/2019  
Number of Days to Update: 53

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 03/31/2021  
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  
Date Data Arrived at EDR: 03/18/2021  
Date Made Active in Reports: 03/25/2021  
Number of Days to Update: 7

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 03/17/2021  
Next Scheduled EDR Contact: 07/19/2021  
Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA AMADOR: CUPA Facility List Cupa Facility List

Date of Government Version: 10/19/2020  
Date Data Arrived at EDR: 10/22/2020  
Date Made Active in Reports: 01/12/2021  
Number of Days to Update: 82

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
Data Release Frequency: Varies

## BUTTE COUNTY:

### CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017  
Date Data Arrived at EDR: 04/25/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 106

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 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: 02/26/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 01/25/2021  
Next Scheduled EDR Contact: 05/10/2021  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/25/2021  
Next Scheduled EDR Contact: 05/10/2021  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 10/22/2020  
Date Data Arrived at EDR: 11/03/2020  
Date Made Active in Reports: 01/20/2021  
Number of Days to Update: 78

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 02/08/2021  
Next Scheduled EDR Contact: 05/10/2021  
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: 02/16/2021  
Next Scheduled EDR Contact: 05/31/2021  
Data Release Frequency: Semi-Annually

## IMPERIAL COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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:

### 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: 02/16/2021  
Next Scheduled EDR Contact: 05/31/2021  
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: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 02/16/2021  
Next Scheduled EDR Contact: 05/31/2021  
Data Release Frequency: Varies

## LAKE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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:

### 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: 04/14/2021  
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: 12/31/2019  
Date Data Arrived at EDR: 08/17/2020  
Date Made Active in Reports: 11/05/2020  
Number of Days to Update: 80

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



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	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 CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/17/2019	Telephone: 626-458-6973
Date Made Active in Reports: 05/29/2019	Last EDR Contact: 04/16/2021
Number of Days to Update: 42	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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 01/19/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/03/2021
	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:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA MERCED: CUPA Facility List CUPA facility list.

Date of Government Version: 02/04/2021  
Date Data Arrived at EDR: 02/09/2021  
Date Made Active in Reports: 02/18/2021  
Number of Days to Update: 9

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 01/29/2021  
Next Scheduled EDR Contact: 05/31/2021  
Data Release Frequency: Varies

## MONO COUNTY:

### 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: 72

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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/26/2020  
Date Data Arrived at EDR: 10/28/2020  
Date Made Active in Reports: 01/15/2021  
Number of Days to Update: 79

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 01/25/2021  
Next Scheduled EDR Contact: 05/10/2021  
Data Release Frequency: Varies

## ORANGE COUNTY:

IND\_SITE ORANGE: List of Industrial Site Cleanups  
Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2020  
Date Data Arrived at EDR: 11/05/2020  
Date Made Active in Reports: 01/26/2021  
Number of Days to Update: 82

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 02/05/2021  
Next Scheduled EDR Contact: 05/17/2021  
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities  
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2020  
Date Data Arrived at EDR: 11/03/2020  
Date Made Active in Reports: 01/21/2021  
Number of Days to Update: 79

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 02/02/2021  
Next Scheduled EDR Contact: 05/17/2021  
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:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## 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: 10/28/2020  
Date Data Arrived at EDR: 10/30/2020  
Date Made Active in Reports: 01/15/2021  
Number of Days to Update: 77

Source: San Benito County Environmental Health  
Telephone: N/A  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 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: 04/14/2021  
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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/05/2020  
Date Data Arrived at EDR: 11/06/2020  
Date Made Active in Reports: 01/27/2021  
Number of Days to Update: 82

Source: San Francisco County Department of Environmental Health  
Telephone: 415-252-3896  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
Data Release Frequency: Varies

## LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 11/05/2020  
Date Data Arrived at EDR: 11/06/2020  
Date Made Active in Reports: 01/26/2021  
Number of Days to Update: 81

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 02/16/2021  
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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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:

### 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: 04/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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:

### 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:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 10/01/2020  
Date Data Arrived at EDR: 10/06/2020  
Date Made Active in Reports: 12/22/2020  
Number of Days to Update: 77

Source: Stanislaus County Department of Environmental Protection  
Telephone: 209-525-6751  
Last EDR Contact: 04/07/2021  
Next Scheduled EDR Contact: 07/26/2021  
Data Release Frequency: Varies

## SUTTER COUNTY:

### 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: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
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: 10/30/2020  
Date Data Arrived at EDR: 11/03/2020  
Date Made Active in Reports: 01/20/2021  
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division  
Telephone: 559-624-7400  
Last EDR Contact: 02/01/2021  
Next Scheduled EDR Contact: 05/17/2021  
Data Release Frequency: Varies

## TUOLUMNE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018  
Date Data Arrived at EDR: 04/25/2018  
Date Made Active in Reports: 06/25/2018  
Number of Days to Update: 61

Source: Divison of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 04/14/2021  
Next Scheduled EDR Contact: 08/02/2021  
Data Release Frequency: Varies

## VENTURA COUNTY:

### BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/28/2020  
Date Data Arrived at EDR: 10/22/2020  
Date Made Active in Reports: 01/12/2021  
Number of Days to Update: 82

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 04/19/2021  
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  
Date Data Arrived at EDR: 12/01/2011  
Date Made Active in Reports: 01/19/2012  
Number of Days to Update: 49

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 03/25/2021  
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  
Date Data Arrived at EDR: 06/24/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 37

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 02/08/2021  
Next Scheduled EDR Contact: 05/24/2021  
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: 09/28/2020  
Date Data Arrived at EDR: 10/22/2020  
Date Made Active in Reports: 01/12/2021  
Number of Days to Update: 82

Source: Ventura County Resource Management Agency  
Telephone: 805-654-2813  
Last EDR Contact: 04/19/2021  
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  
Date Data Arrived at EDR: 03/09/2021  
Date Made Active in Reports: 03/31/2021  
Number of Days to Update: 22

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 03/09/2021  
Next Scheduled EDR Contact: 06/21/2021  
Data Release Frequency: Quarterly

## YOLO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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:

CUPA YUBA: CUPA Facility List  
CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2021	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 01/28/2021	Telephone: 530-749-7523
Date Made Active in Reports: 02/03/2021	Last EDR Contact: 02/23/2021
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/10/2021
	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: 08/10/2020	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 10/20/2020	Telephone: 860-424-3375
Date Made Active in Reports: 11/02/2020	Last EDR Contact: 02/12/2021
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/24/2021
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 04/09/2021
Number of Days to Update: 36	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	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/29/2020	Telephone: 518-402-8651
Date Made Active in Reports: 07/10/2020	Last EDR Contact: 01/29/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/10/2021
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 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

## 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

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.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

CAMINO LARGO  
N. SANTE FE AVE  
VISTA, CA 92084

### TARGET PROPERTY COORDINATES

Latitude (North): 33.234354 - 33° 14' 3.67"  
Longitude (West): 117.248487 - 117° 14' 54.55"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 476848.4  
UTM Y (Meters): 3677103.5  
Elevation: 342 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 5641320 SAN MARCOS, CA  
Version Date: 2012

Northeast Map: 5641328 BONSALL, CA  
Version Date: 2012

Southwest Map: 5641318 SAN LUIS REY, CA  
Version Date: 2012

Northwest Map: 5640252 MORRO HILL, 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).

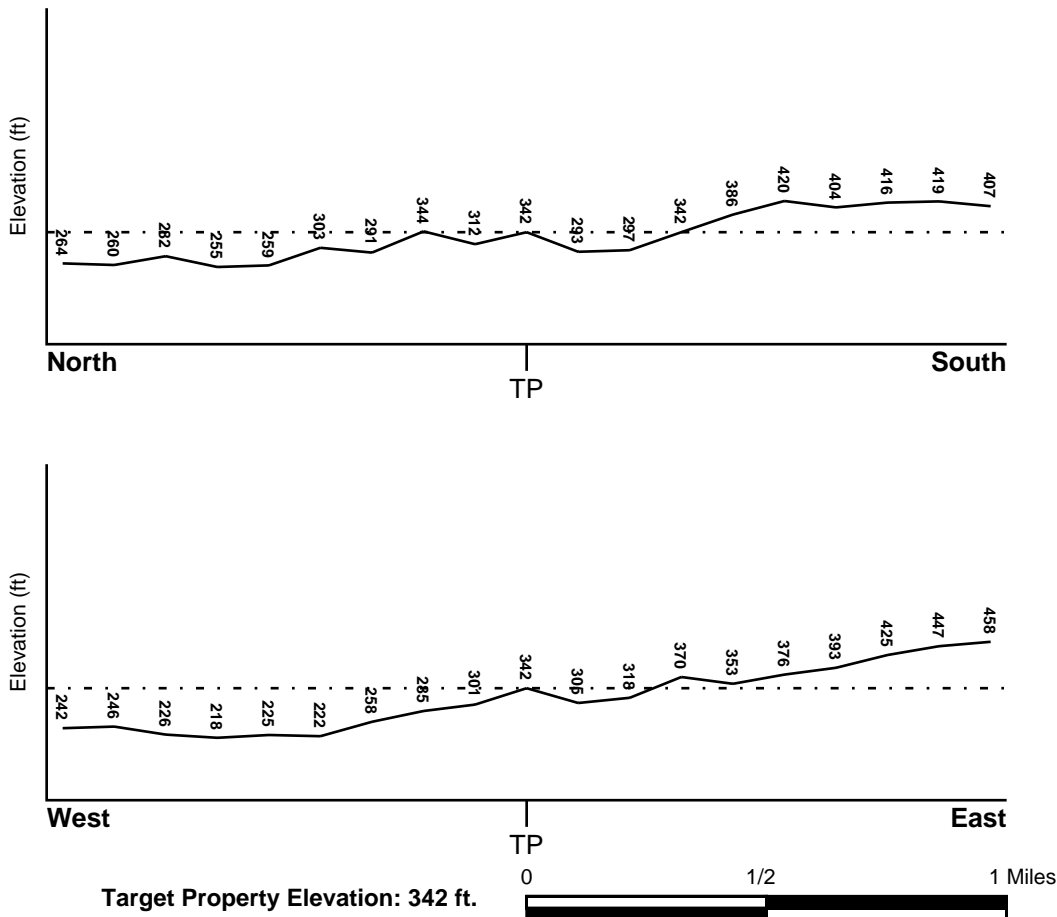
## TOPOGRAPHIC INFORMATION

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 WSW

## 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>
06073C0776G	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06073C0757G	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
SAN MARCOS	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**

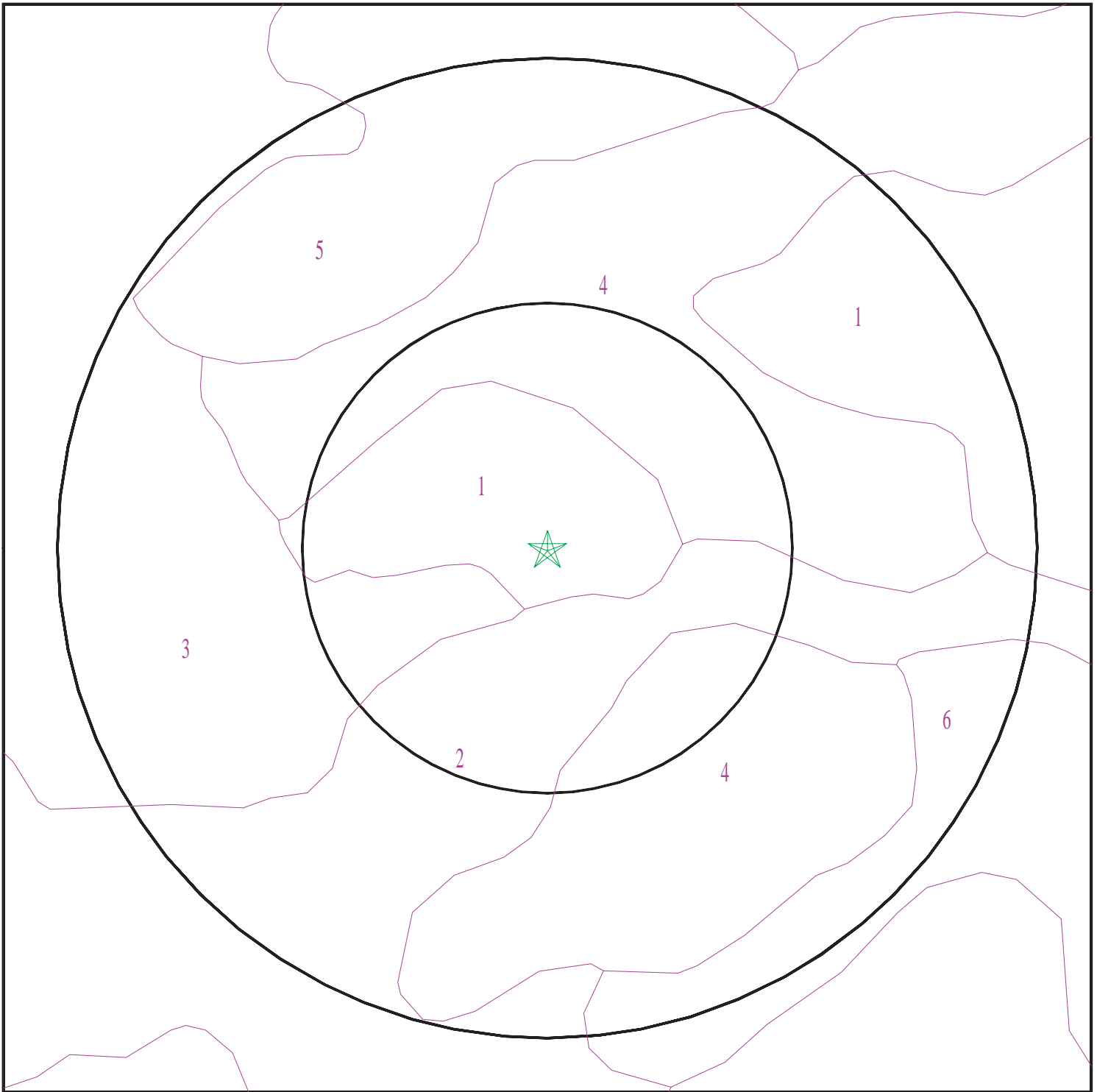
Era: Mesozoic  
System: Cretaceous  
Series: Cretaceous granitic rocks  
Code: Kg *(decoded above as Era, System & Series)*

#### **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 - 6456522.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water

0 1/16 1/8 1/4 Miles



SITE NAME: Camino Largo  
ADDRESS: N. Sante Fe Ave  
Vista CA 92084  
LAT/LONG: 33.234354 / 117.248487

CLIENT: Geocon Env. Consultants, Inc.  
CONTACT: Cole Mikesell  
INQUIRY #: 6456522.2s  
DATE: April 20, 2021 11:36 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: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	11 inches	27 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	27 inches	46 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
5	46 inches	51 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

### Soil Map ID: 2

Soil Component Name: SALINAS

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	22 inches	46 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
3	46 inches	64 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

### Soil Map ID: 3

Soil Component Name: PLACENTIA

Soil Surface Texture: sandy loam

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: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.9

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	12 inches	33 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.9
3	33 inches	62 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.9

**Soil Map ID: 4**

Soil Component Name: BONSALL

Soil Surface Texture: sandy loam

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: Moderately 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	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	24 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4
3	24 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4
4	33 inches	44 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4
5	44 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 7.8 Min: 7.4

### Soil Map ID: 5

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

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: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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	1 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	1 inches	24 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	24 inches	27 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
4	27 inches	31 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

### Soil Map ID: 6

Soil Component Name: DIABLO

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

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	14 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

### 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

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A4	USGS40000130976	0 - 1/8 Mile ESE
A5	USGS40000130967	0 - 1/8 Mile SE
A6	USGS40000130968	0 - 1/8 Mile SE
A7	USGS40000130953	0 - 1/8 Mile SSW
A8	USGS40000130954	0 - 1/8 Mile SSW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B9	USGS40000130955	0 - 1/8 Mile SSW
C10	USGS40000131005	0 - 1/8 Mile NE
B11	USGS40000130956	0 - 1/8 Mile SSW
B12	USGS40000130945	0 - 1/8 Mile SSW
D17	USGS40000131030	0 - 1/8 Mile North
C20	USGS40000131029	1/8 - 1/4 Mile NNE
C22	USGS40000130997	1/8 - 1/4 Mile ENE
E23	USGS40000130999	1/8 - 1/4 Mile WNW
B24	USGS40000130926	1/8 - 1/4 Mile SSW
F26	USGS40000130905	1/8 - 1/4 Mile South
F31	USGS40000130883	1/8 - 1/4 Mile South
G32	USGS40000130966	1/4 - 1/2 Mile East
H33	USGS40000130906	1/4 - 1/2 Mile WSW
35	USGS40000131093	1/2 - 1 Mile NE
I36	USGS40000130992	1/2 - 1 Mile West
I37	USGS40000131000	1/2 - 1 Mile West
I38	USGS40000130998	1/2 - 1 Mile West
J41	USGS40000131001	1/2 - 1 Mile West
K42	USGS40000131174	1/2 - 1 Mile NNW
J47	USGS40000131002	1/2 - 1 Mile West
L48	USGS40000130826	1/2 - 1 Mile WSW
L49	USGS40000130827	1/2 - 1 Mile WSW
M51	USGS40000131018	1/2 - 1 Mile West
M52	USGS40000131019	1/2 - 1 Mile West
M53	USGS40000131041	1/2 - 1 Mile WNW
N54	USGS40000131212	1/2 - 1 Mile NNW
O55	USGS40000130969	1/2 - 1 Mile West
P61	USGS40000131213	1/2 - 1 Mile NNW
P62	USGS40000131214	1/2 - 1 Mile NNW
63	USGS40000131254	1/2 - 1 Mile North
Q67	USGS40000131180	1/2 - 1 Mile NW
R71	USGS40000131285	1/2 - 1 Mile NNW

## 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

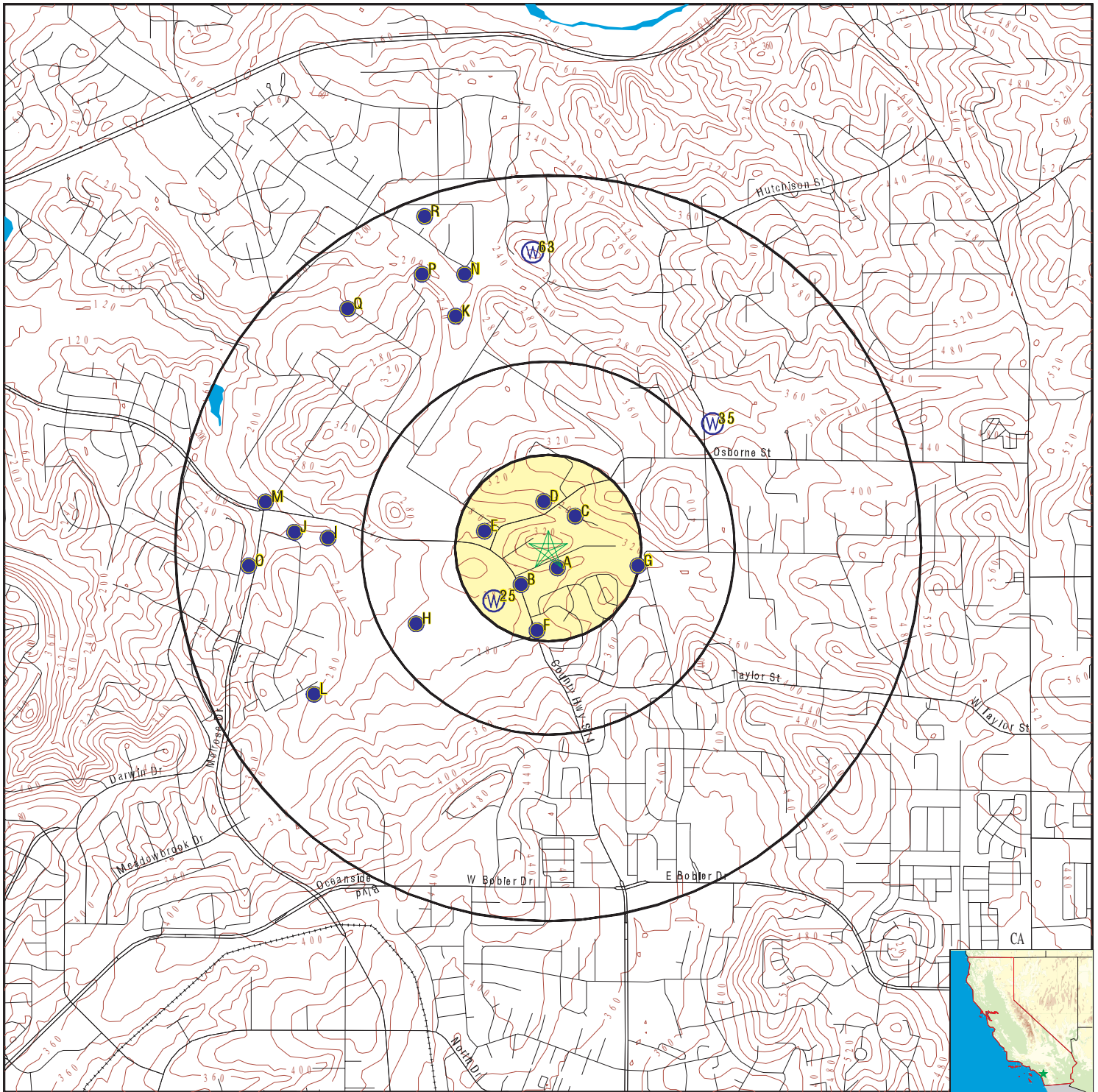
MAP ID	WELL ID	LOCATION FROM TP
A1	CADWR8000001205	0 - 1/8 Mile SE
A2	CADWR8000001199	0 - 1/8 Mile SSE
A3	CADWR8000001198	0 - 1/8 Mile SSE
B13	CADWR8000001187	0 - 1/8 Mile SW
B14	CADWR8000001189	0 - 1/8 Mile SW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B15	CADWR8000001190	0 - 1/8 Mile SW
B16	CADWR8000001188	0 - 1/8 Mile SW
C18	CADWR8000001237	1/8 - 1/4 Mile NNE
D19	CADWR8000001238	1/8 - 1/4 Mile NNW
B21	CADWR8000001182	1/8 - 1/4 Mile SW
25	CADWR8000001170	1/8 - 1/4 Mile SW
G27	CADWR8000001197	1/8 - 1/4 Mile ESE
E28	CADWR8000001222	1/8 - 1/4 Mile WNW
F29	CADWR8000001154	1/8 - 1/4 Mile SSW
F30	CADWR8000001138	1/8 - 1/4 Mile South
H34	CADWR8000001155	1/4 - 1/2 Mile WSW
I39	CADWR8000001217	1/2 - 1 Mile West
I40	CADWR8000001223	1/2 - 1 Mile West
J43	CADWR8000001221	1/2 - 1 Mile West
J44	CADWR00000030667	1/2 - 1 Mile West
K45	CADWR8000001349	1/2 - 1 Mile NNW
J46	CAUSGSN00005798	1/2 - 1 Mile West
J50	CADWR8000001224	1/2 - 1 Mile West
L56	CADWR8000001102	1/2 - 1 Mile WSW
L57	CADWR8000001103	1/2 - 1 Mile WSW
N58	CADWR8000001379	1/2 - 1 Mile NNW
M59	CADWR8000001230	1/2 - 1 Mile West
M60	CADWR8000001231	1/2 - 1 Mile West
M64	CADWR8000001246	1/2 - 1 Mile WNW
P65	CADWR8000001380	1/2 - 1 Mile NNW
P66	CADWR8000001381	1/2 - 1 Mile NNW
O68	CADWR8000001200	1/2 - 1 Mile West
Q69	CADWR8000001353	1/2 - 1 Mile NW
R70	CAUSGSN00009018	1/2 - 1 Mile NNW
R72	CADWR0000001808	1/2 - 1 Mile NNW
R73	CADWR8000001425	1/2 - 1 Mile NNW

# PHYSICAL SETTING SOURCE MAP - 6456522.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Camino Largo  
 ADDRESS: N. Sante Fe Ave  
 Vista CA 92084  
 LAT/LONG: 33.234354 / 117.248487

CLIENT: Geocon Env. Consultants, Inc.  
 CONTACT: Cole Mikesell  
 INQUIRY #: 6456522.2s  
 DATE: April 20, 2021 11:36 am

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**SE**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CADWR8000001205**

State Well #:	11S04W12J003S	Station ID:	33983
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**A2**  
**SSE**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CADWR8000001199**

State Well #:	11S04W12J005S	Station ID:	33984
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**A3**  
**SSE**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CADWR8000001198**

State Well #:	11S04W12J004S	Station ID:	15253
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**A4**  
**ESE**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000130976**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12J003S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	26		
Well Hole Depth:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	4.00	Feet to sea level:	Not Reported
Note:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A5**  
**SE**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000130967**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12J004S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	Not Reported
Aquifer Type:	Not Reported	Well Depth Units:	Not Reported
Well Depth:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	1.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**A6**  
**SE**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000130968**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12J005S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	20
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	20	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	1.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**A7**  
**SSW**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000130953**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12J001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	26
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	26	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	7.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**A8**  
**SSW**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS    USGS40000130954**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12J002S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	13	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	7.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**B9**  
**SSW**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS    USGS40000130955**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12K001S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	7.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**C10**  
**NE**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS    USGS40000131005**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12H002S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth:	38	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**B11**  
**SSW**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000130956**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12K002S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	14	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	9.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**B12**  
**SSW**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000130945**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12K003S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	18	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	6.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**B13**  
**SW**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CADWR8000001187**

State Well #:	11S04W12J001S	Station ID:	33982
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B14**  
**SW**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CADWR8000001189**

State Well #:	11S04W12K001S	Station ID:	33985
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**B15**  
**SW**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CADWR8000001190**

State Well #:	11S04W12K002S	Station ID:	15256
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**B16**  
**SW**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CADWR8000001188**

State Well #:	11S04W12J002S	Station ID:	15252
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**D17**  
**North**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000131030**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12H001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	60		
Well Hole Depth:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	27.00	Feet to sea level:	Not Reported
Note:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C18**  
**NNE**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001237**

State Well #:	11S04W12H003S	Station ID:	15251
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**D19**  
**NNW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001238**

State Well #:	11S04W12H001S	Station ID:	15250
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**C20**  
**NNE**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000131029**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12H003S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	49		
Well Hole Depth:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	29.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**B21**  
**SW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001182**

State Well #:	11S04W12K003S	Station ID:	33986
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**C22**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000130997**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12H004S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**E23**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000130999**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12G001S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	16.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**B24**  
**SSW**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000130926**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12K004S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	34	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	6.00	Feet to sea level:	Not Reported
Note:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**25**  
**SW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001170**

State Well #:	11S04W12K004S	Station ID:	15257
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**F26**  
**South**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000130905**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12J006S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	91		
Well Hole Depth:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	-4.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**G27**  
**ESE**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001197**

State Well #:	11S03W07M001S	Station ID:	12784
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**E28**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001222**

State Well #:	11S04W12G001S	Station ID:	33981
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F29**  
**SSW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001154**

State Well #:	11S04W12J006S	Station ID:	15254
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**F30**  
**South**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR8000001138**

State Well #:	11S04W12J007S	Station ID:	15255
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**F31**  
**South**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000130883**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12J007S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	32		
Well Hole Depth:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**G32**  
**East**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000130966**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070302
Monitor Location:	011S003W07M001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	1937
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported		
Well Depth:	52		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels, Number of Measurements:	1	Level reading date:	1966-03-01
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**H33**  
**WSW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000130906**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12L001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	1954
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	76		
Well Hole Depth:	Not Reported		

Ground water levels, Number of Measurements:	1	Level reading date:	1965-12-01
Feet below surface:	3.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**H34**  
**WSW**  
**1/4 - 1/2 Mile**  
**Lower**

**CA WELLS      CADWR8000001155**

State Well #:	11S04W12L001S	Station ID:	15258
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**35**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131093**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070302
Monitor Location:	011S003W07D001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	Not Reported
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	Not Reported		
Well Hole Depth:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**I36**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000130992**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12F001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	21
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	21	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	6.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**I37**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131000**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12E004S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	13
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	13	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-12-01
Feet below surface:	2.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**I38**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000130998**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12E002S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	26
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	26	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	7.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**I39**  
West  
1/2 - 1 Mile  
Lower

**CA WELLS    CADWR8000001217**

State Well #:	11S04W12F001S	Station ID:	15249
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**I40**  
West  
1/2 - 1 Mile  
Lower

**CA WELLS    CADWR8000001223**

State Well #:	11S04W12E004S	Station ID:	33979
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**J41**  
West  
1/2 - 1 Mile  
Lower

**FED USGS    USGS40000131001**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12E003S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	3		
Well Hole Depth:	Not Reported		

**K42**  
NNW  
1/2 - 1 Mile  
Lower

**FED USGS    USGS40000131174**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W01Q002S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	38		
Well Hole Depth:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	10.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**J43**  
West  
1/2 - 1 Mile  
Lower

**CA WELLS    CADWR8000001221**

State Well #:	11S04W12E002S	Station ID:	15246
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**J44**  
West  
1/2 - 1 Mile  
Lower

**CA WELLS    CADWR0000030667**

Well ID:	11S04W12E001S	Well Type:	UNK
Source:	Department of Water Resources	GAMA PFAS Testing:	Not Reported
Other Name:	11S04W12E001S		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=11S04W12E001S&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=11S04W12E001S&amp;store_num=</a>		
GeoTracker Data:	Not Reported		

**K45**  
NNW  
1/2 - 1 Mile  
Lower

**CA WELLS    CADWR8000001349**

State Well #:	11S04W01Q002S	Station ID:	12965
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**J46**  
West  
1/2 - 1 Mile  
Lower

**CA WELLS    CAUSGSN00005798**

Well ID:	USGS-331406117153401	Well Type:	UNK
Source:	United States Geological Survey	GAMA PFAS Testing:	Not Reported
Other Name:	USGS-331406117153401		
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp;samp_date=&amp;global_id=&amp;assigned_name=USGS-331406117153401&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp;samp_date=&amp;global_id=&amp;assigned_name=USGS-331406117153401&amp;store_num=</a>		
GeoTracker Data:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J47**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131002**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12E001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	36
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	36	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**L48**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000130826**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12N001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	44
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	44	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-12-01
Feet below surface:	15.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**L49**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000130827**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12N002S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	105
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	105	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels,Number of Measurements:	1	Level reading date:	1965-12-01
Feet below surface:	8.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**J50**  
West  
1/2 - 1 Mile  
Lower

**CA WELLS    CADWR8000001224**

State Well #:	11S04W12E001S	Station ID:	33978
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**M51**  
West  
1/2 - 1 Mile  
Lower

**FED USGS    USGS40000131018**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12E006S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	36	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-12-01
Feet below surface:	3.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**M52**  
West  
1/2 - 1 Mile  
Lower

**FED USGS    USGS40000131019**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W12E007S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	Not Reported
Well Depth:	29	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-12-01
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**M53**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131041**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W12E005S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Other aquifers	Well Depth:	48
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	48	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1965-12-01
Feet below surface:	26.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**N54**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131212**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070303
Monitor Location:	011S004W01Q001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	California Coastal Basin aquifers	Well Depth:	56
Formation Type:	Not Reported	Well Hole Depth:	Not Reported
Construction Date:	Not Reported		
Well Depth Units:	ft		
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	19.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**O55**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000130969**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18070302
Monitor Location:	011S004W12M001S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	1961
Aquifer:	Other aquifers	Well Depth:	26
Aquifer Type:	Not Reported	Well Depth Units:	ft
Well Depth:	26	Well Hole Depth:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1966-12-01
Feet below surface:	7.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**L56**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001102**

State Well #:	11S04W12N001S	Station ID:	15259
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**L57**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001103**

State Well #:	11S04W12N002S	Station ID:	15260
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**N58**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001379**

State Well #:	11S04W01Q001S	Station ID:	12964
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**M59**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001230**

State Well #:	11S04W12E006S	Station ID:	15248
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**M60**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001231**

State Well #:	11S04W12E007S	Station ID:	33980
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**P61**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131213**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W01P001S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	43
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	18.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**P62**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131214**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W01P002S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	26
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	11.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**63**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131254**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W01J001S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	51

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

**M64**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001246**

State Well #:	11S04W12E005S	Station ID:	15247
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**P65**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001380**

State Well #:	11S04W01P001S	Station ID:	12961
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**P66**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    CADWR8000001381**

State Well #:	11S04W01P002S	Station ID:	12962
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**Q67**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS    USGS40000131180**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W01P003S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	1946	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	29.00	Feet to sea level:	Not Reported
Note:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**O68**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADWR8000001200**

State Well #:	11S04W12M001S	Station ID:	33987
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**Q69**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADWR8000001353**

State Well #:	11S04W01P003S	Station ID:	12963
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	Well Completion Rpt #:	Not Reported

**R70**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAUSGSN00009018**

Well ID:	USGS-331450117151101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-331450117151101	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp;amp_date=&amp;global_id=&amp;assigned_name=USGS-331450117151101&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp;amp_date=&amp;global_id=&amp;assigned_name=USGS-331450117151101&amp;store_num=</a>		
GeoTracker Data:	Not Reported		

**R71**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000131285**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011S004W01L002S	Type:	Well
Description:	Not Reported	HUC:	18070303
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:	68
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-11-01
Feet below surface:	30.00	Feet to sea level:	Not Reported
Note:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**R72**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADWR0000001808**

Well ID:	11S04W01L002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	11S04W01L002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	<a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=11S04W01L002S&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=11S04W01L002S&amp;store_num=</a>		
GeoTracker Data:	Not Reported		

**R73**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADWR8000001425**

State Well #:	11S04W01L002S	Station ID:	12958
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Not Reported	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
92084	30	1

Federal EPA Radon Zone for SAN DIEGO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

---

### Federal Area Radon Information for SAN DIEGO COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.677 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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<sup>R</sup> 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

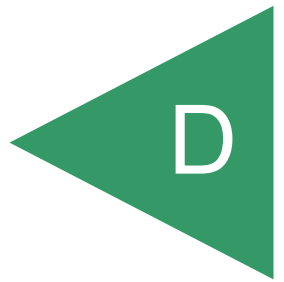
Source: Department of Commerce, National Oceanic and Atmospheric Administration

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

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

APPENDIX





**Camino Largo**

N. Sante Fe Ave

Vista, CA 92084

Inquiry Number: 6456522.8

April 19, 2021

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Aerial Photo Decade Package

04/19/21

**Site Name:**

Camino Largo  
N. Sante Fe Ave  
Vista, CA 92084  
EDR Inquiry # 6456522.8

**Client Name:**

Geocon Env. Consultants, Inc.  
6960 Flanders Drive  
San Diego, CA 92121-0000  
Contact: Cole Mikesell



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
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: September 13, 1985	USDA
1979	1"=500'	Flight Date: January 27, 1979	EDR Proprietary Landiscor
1970	1"=500'	Flight Date: March 06, 1970	EDR Proprietary Landiscor
1967	1"=500'	Flight Date: May 07, 1967	USGS
1964	1"=500'	Flight Date: April 10, 1964	USDA
1953	1"=500'	Flight Date: April 14, 1953	USDA
1946	1"=500'	Flight Date: December 30, 1946	USGS
1938	1"=500'	Flight Date: August 09, 1938	USDA

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2021 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.





INQUIRY #: 6456522.8

YEAR: 2016

— = 500'







INQUIRY #: 6456522.8

YEAR: 2012

— = 500'







INQUIRY #: 6456522.8

YEAR: 2009

— = 500'







INQUIRY #: 6456522.8

YEAR: 2005

— = 500'







INQUIRY #: 6456522.8

YEAR: 1989

— = 500'







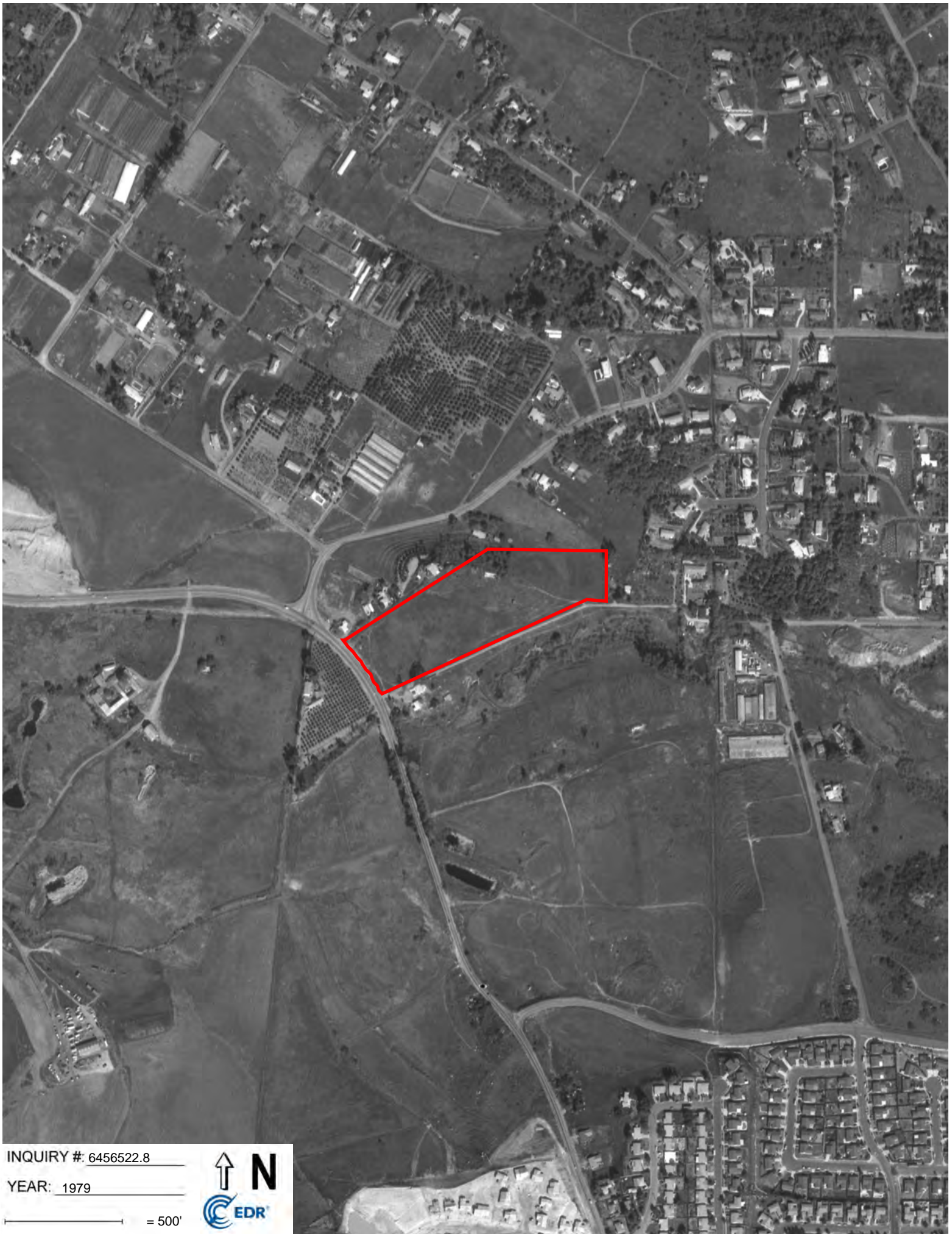
INQUIRY #: 6456522.8

YEAR: 1985

— = 500'







INQUIRY #: 6456522.8

YEAR: 1979

— = 500'







INQUIRY # 6456522.8

YEAR: 1970

— = 500'







INQUIRY #: 6456522.8

YEAR: 1967

— = 500'







INQUIRY #: 6456522.8

YEAR: 1964

— = 500'







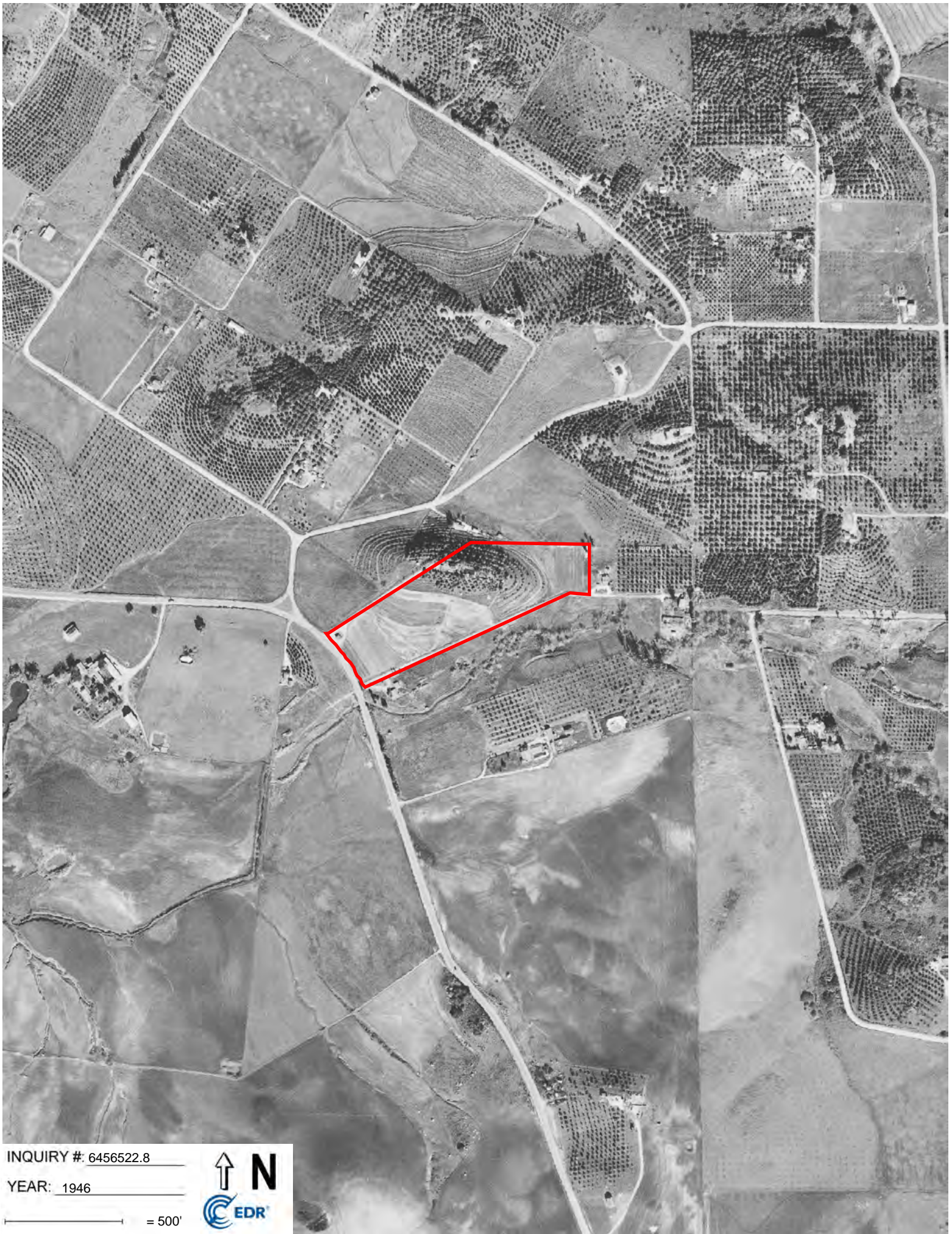
INQUIRY #: 6456522.8

YEAR: 1953

— = 500'







INQUIRY # 6456522.8

YEAR: 1946

— = 500'







INQUIRY #: 6456522.8

YEAR: 1938

— = 500'



APPENDIX

A solid green triangle pointing to the left, containing the letter 'E' in white.

E



Camino Largo  
N. Sante Fe Ave  
Vista, CA 92084

Inquiry Number: 6456522.4

April 19, 2021

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Historical Topo Map Report

04/19/21

**Site Name:**

Camino Largo  
N. Sante Fe Ave  
Vista, CA 92084  
EDR Inquiry # 6456522.4

**Client Name:**

Geocon Env. Consultants, Inc.  
6960 Flanders Drive  
San Diego, CA 92121-0000  
Contact: Cole Mikesell



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Geocon Env. Consultants, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	G2721-62-01	<b>Latitude:</b>	33.234354 33° 14' 4" North
<b>Project:</b>	Camino Largo	<b>Longitude:</b>	-117.248487 -117° 14' 55" West
		<b>UTM Zone:</b>	Zone 11 North
		<b>UTM X Meters:</b>	476848.91
		<b>UTM Y Meters:</b>	3677295.45
		<b>Elevation:</b>	341.91' above sea level

**Maps Provided:**

2012	1901
1996, 1997	1898
1983	1893
1975	
1968	
1949	
1948	
1947, 1950	

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2021 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets



Morro Hill  
2012  
7.5-minute, 24000



San Marcos  
2012  
7.5-minute, 24000



San Luis Rey  
2012  
7.5-minute, 24000



Bonsall  
2012  
7.5-minute, 24000

### 1996, 1997 Source Sheets

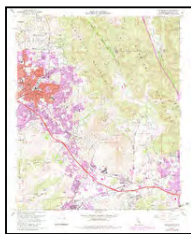


San Marcos  
1996  
7.5-minute, 24000  
Aerial Photo Revised 1996



San Luis Rey  
1997  
7.5-minute, 24000  
Aerial Photo Revised 1997

### 1983 Source Sheets

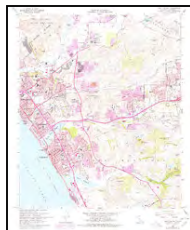


San Marcos  
1983  
7.5-minute, 24000  
Aerial Photo Revised 1980

### 1975 Source Sheets



Bonsall  
1975  
7.5-minute, 24000  
Aerial Photo Revised 1967



San Luis Rey  
1975  
7.5-minute, 24000  
Aerial Photo Revised 1975

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

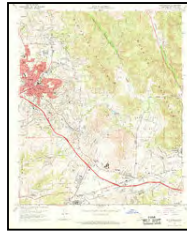
### 1968 Source Sheets



Morro Hill  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1967



Bonsall  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1967



San Marcos  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1967



San Luis Rey  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1967

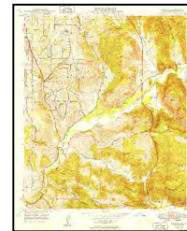
### 1949 Source Sheets



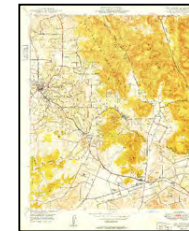
San Luis Rey  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1946



Morro Hill  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1946



Bonsall  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1946



San Marcos  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1946

### 1948 Source Sheets



San Luis Rey  
1948  
7.5-minute, 24000  
Aerial Photo Revised 1946



Bonsall  
1948  
7.5-minute, 24000  
Aerial Photo Revised 1946



San Marcos  
1948  
7.5-minute, 24000  
Aerial Photo Revised 1946



Morro Hill  
1948  
7.5-minute, 24000  
Aerial Photo Revised 1946

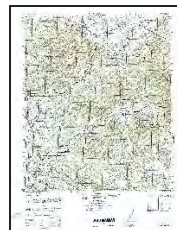
### 1947, 1950 Source Sheets



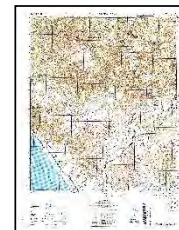
OCEANSIDE  
1947  
15-minute, 50000



ESCONDIDO  
1947  
15-minute, 50000



TEMECULA  
1947  
15-minute, 50000



MARGARITA PEAK  
1950  
15-minute, 50000

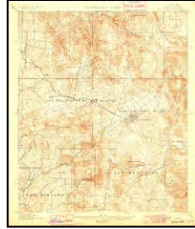
## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1901 Source Sheets



Oceanside  
1901  
15-minute, 62500



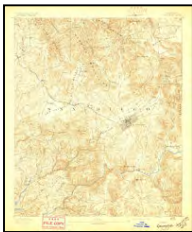
Escondido  
1901  
15-minute, 62500

### 1898 Source Sheets



Oceanside  
1898  
15-minute, 62500

### 1893 Source Sheets

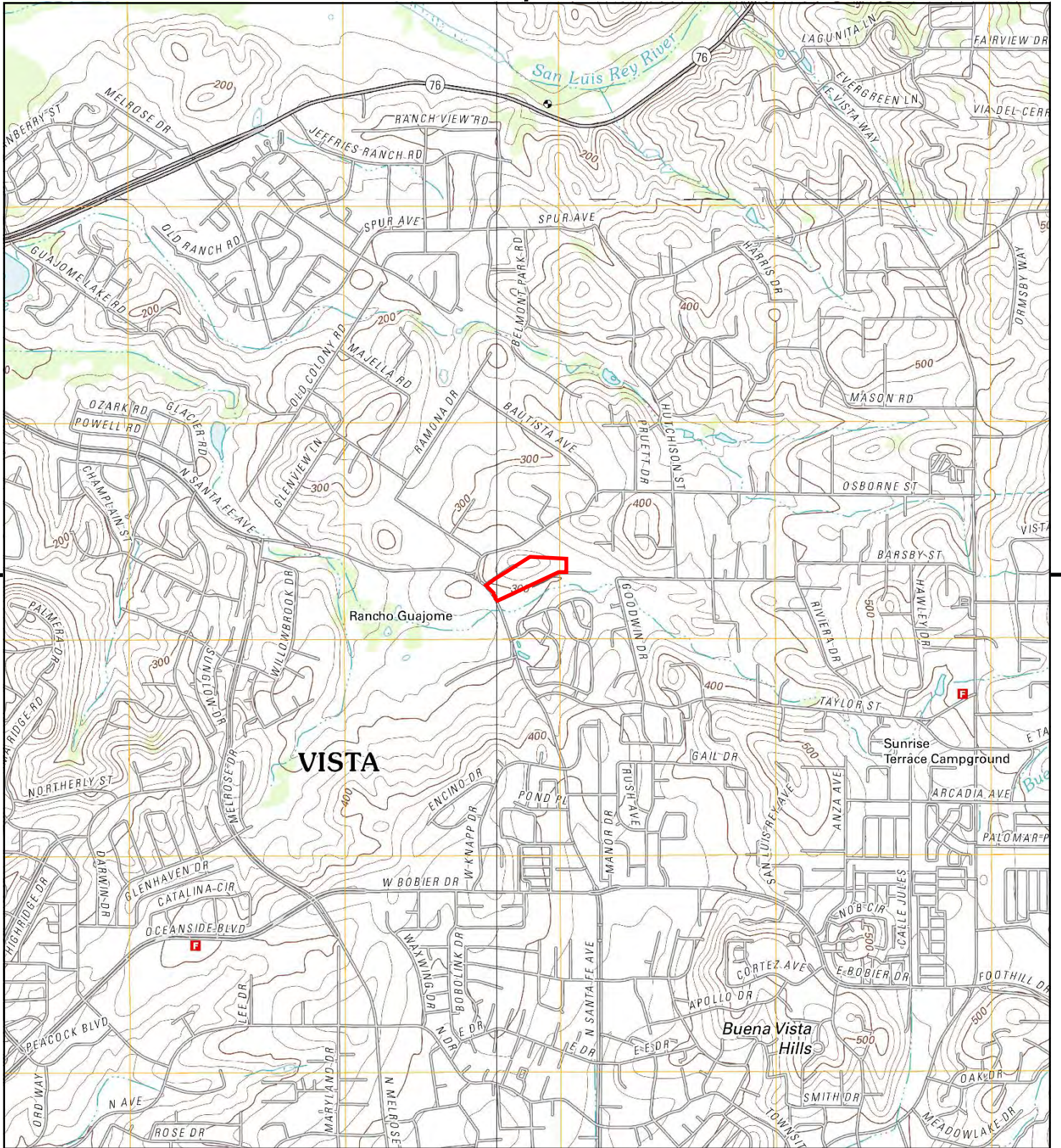


Escondido  
1893  
15-minute, 62500

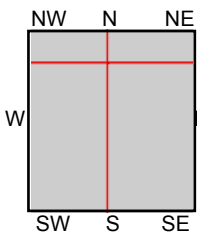


Oceanside  
1893  
15-minute, 62500





This report includes information from the following map sheet(s).

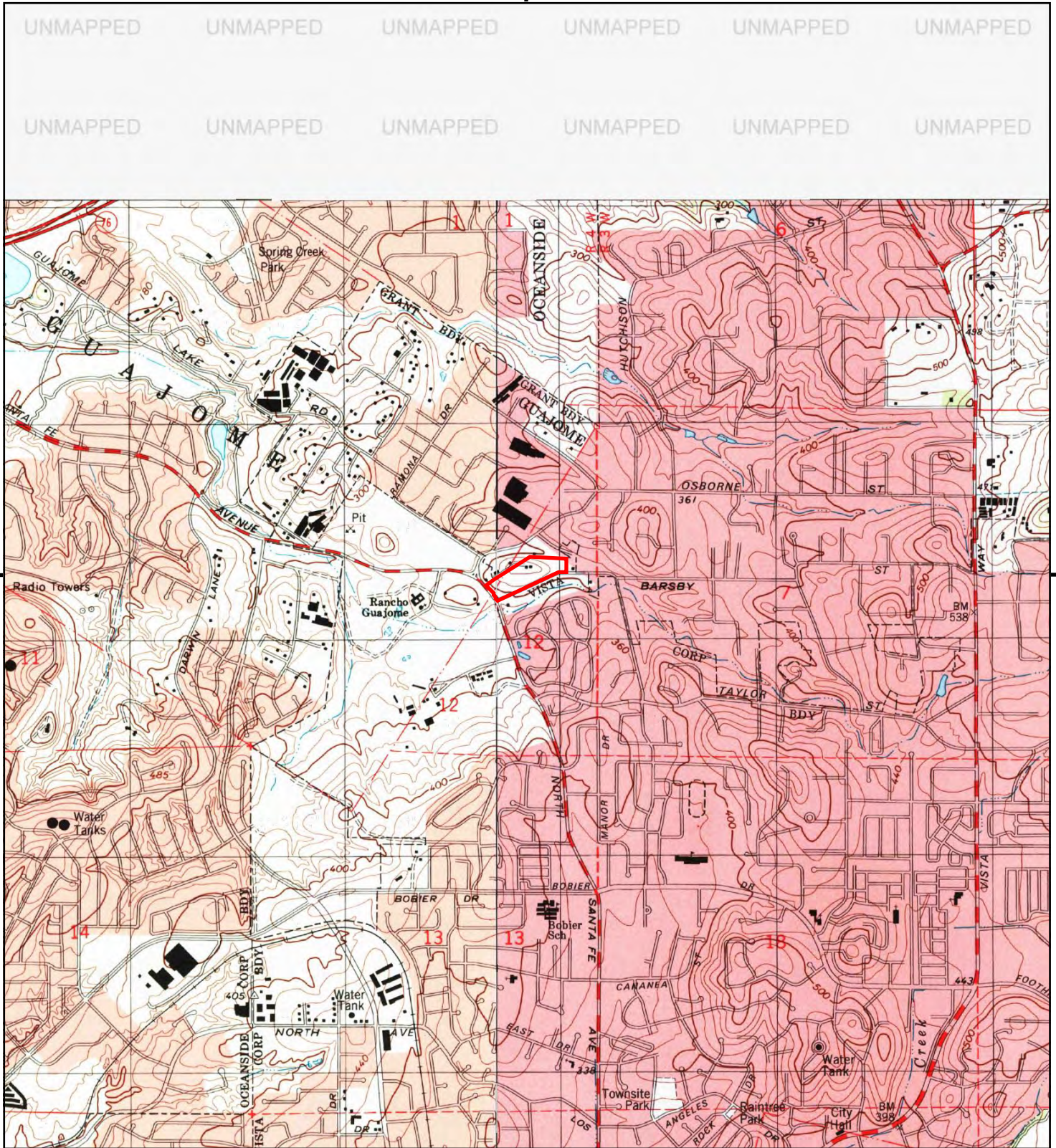


TP, San Marcos, 2012, 7.5-minute  
 NE, Bonsall, 2012, 7.5-minute  
 SW, San Luis Rey, 2012, 7.5-minute  
 NW, Morro Hill, 2012, 7.5-minute

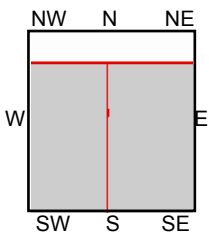
**SITE NAME:** Camino Largo  
**ADDRESS:** N. Santa Fe Ave  
 Vista, CA 92084  
**CLIENT:** Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).

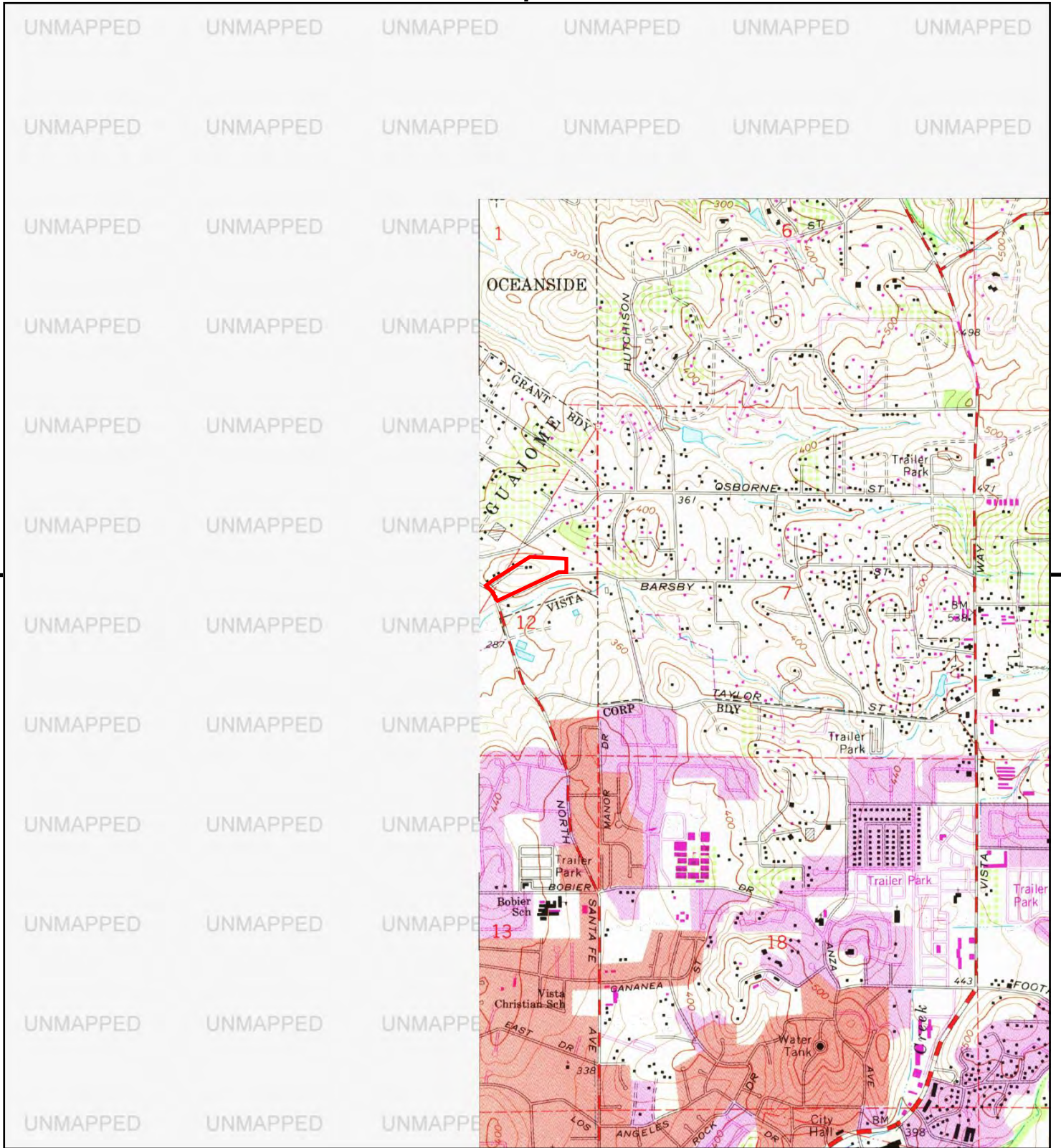


TP, San Marcos, 1996, 7.5-minute  
 SW, San Luis Rey, 1997, 7.5-minute

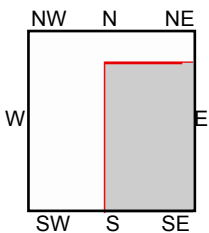
**SITE NAME:** Camino Largo  
**ADDRESS:** N. Sante Fe Ave  
 Vista, CA 92084  
**CLIENT:** Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).

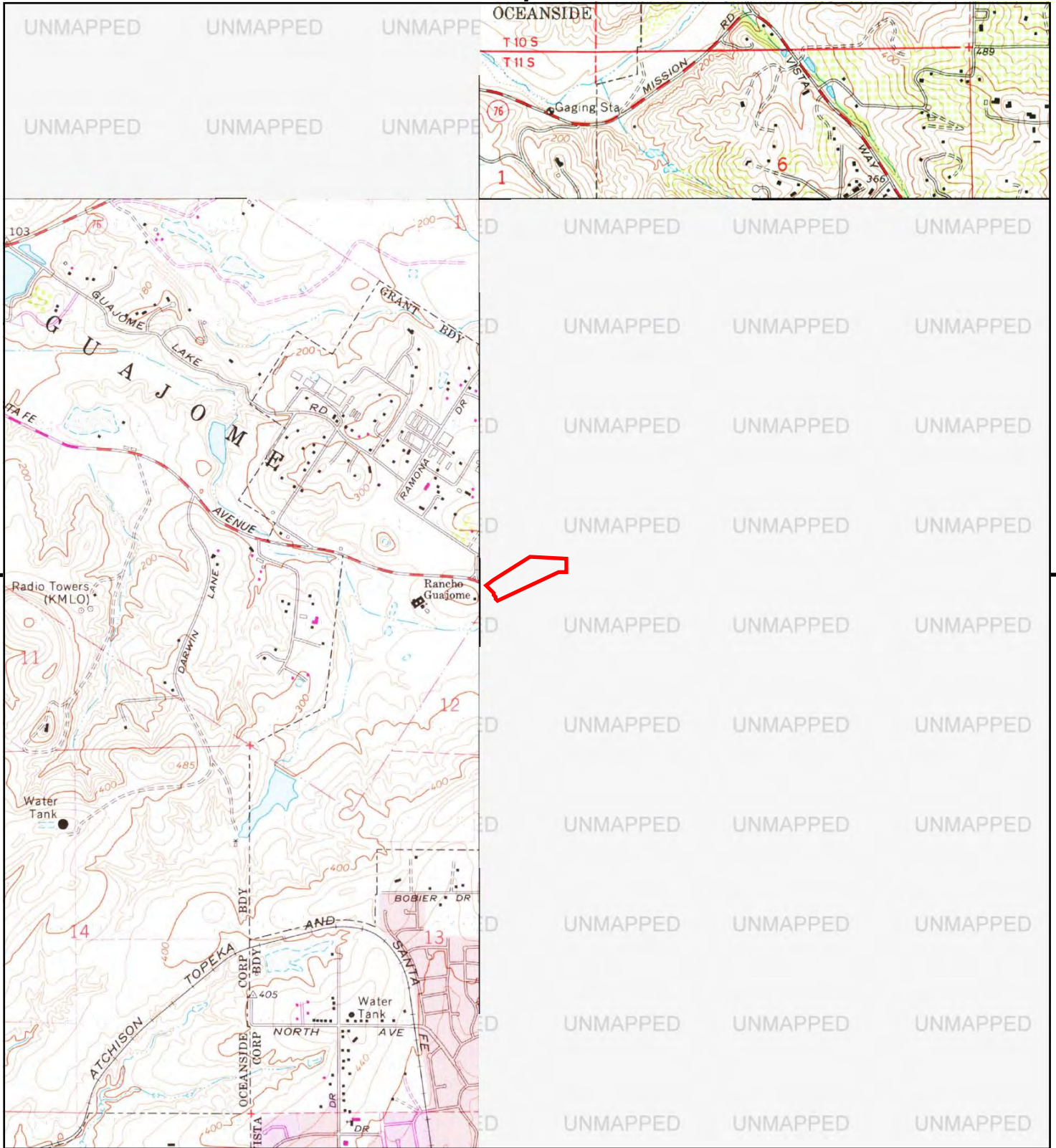


TP, San Marcos, 1983, 7.5-minute

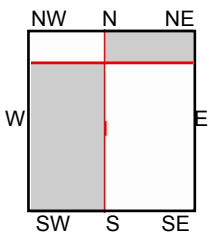
**SITE NAME:** Camino Largo  
**ADDRESS:** N. Sante Fe Ave  
 Vista, CA 92084  
**CLIENT:** Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).

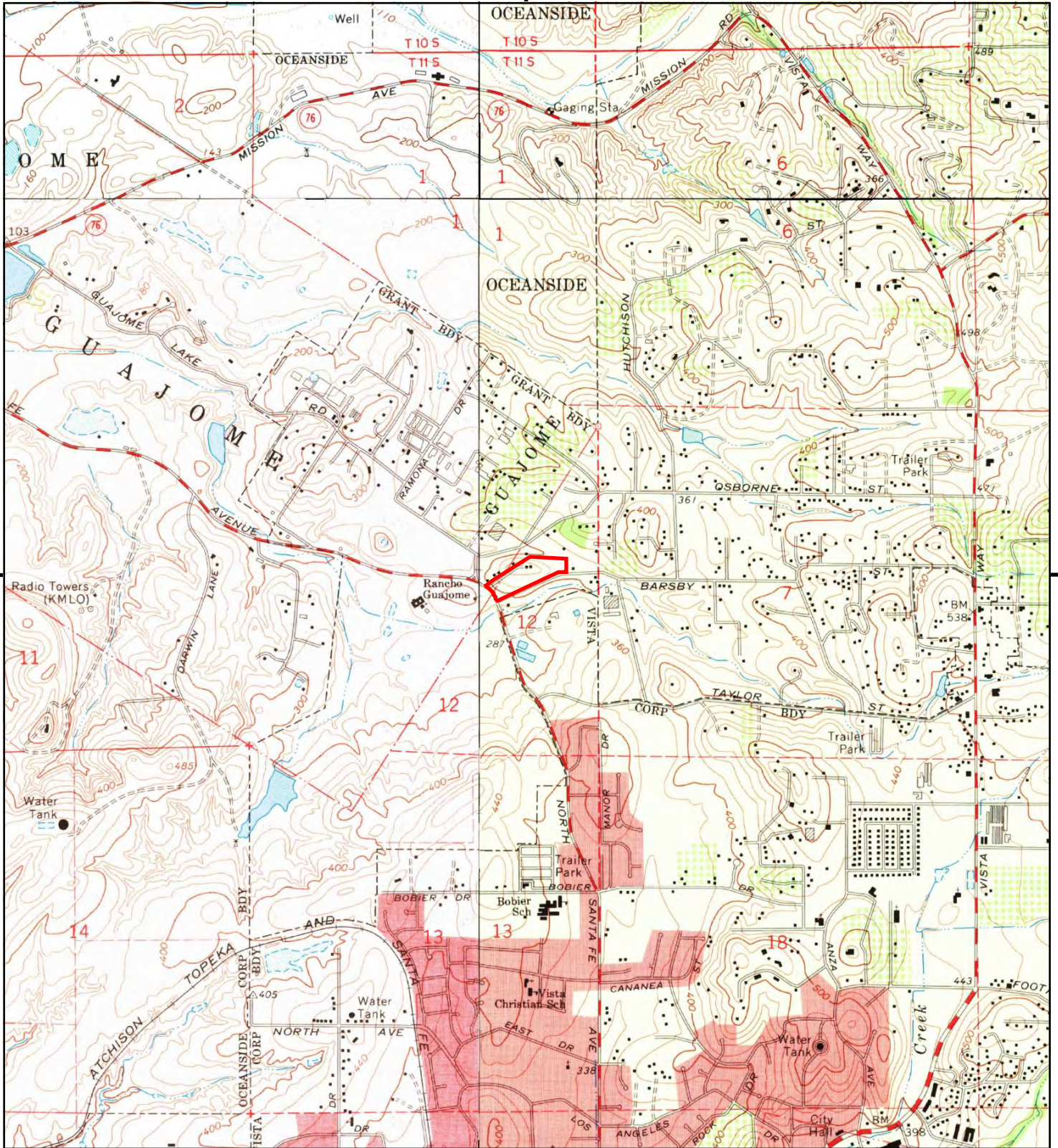


NE, Bonsall, 1975, 7.5-minute  
 SW, San Luis Rey, 1975, 7.5-minute

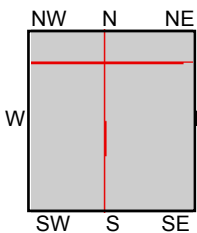
**SITE NAME:** Camino Largo  
**ADDRESS:** N. Sante Fe Ave  
 Vista, CA 92084  
**CLIENT:** Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).

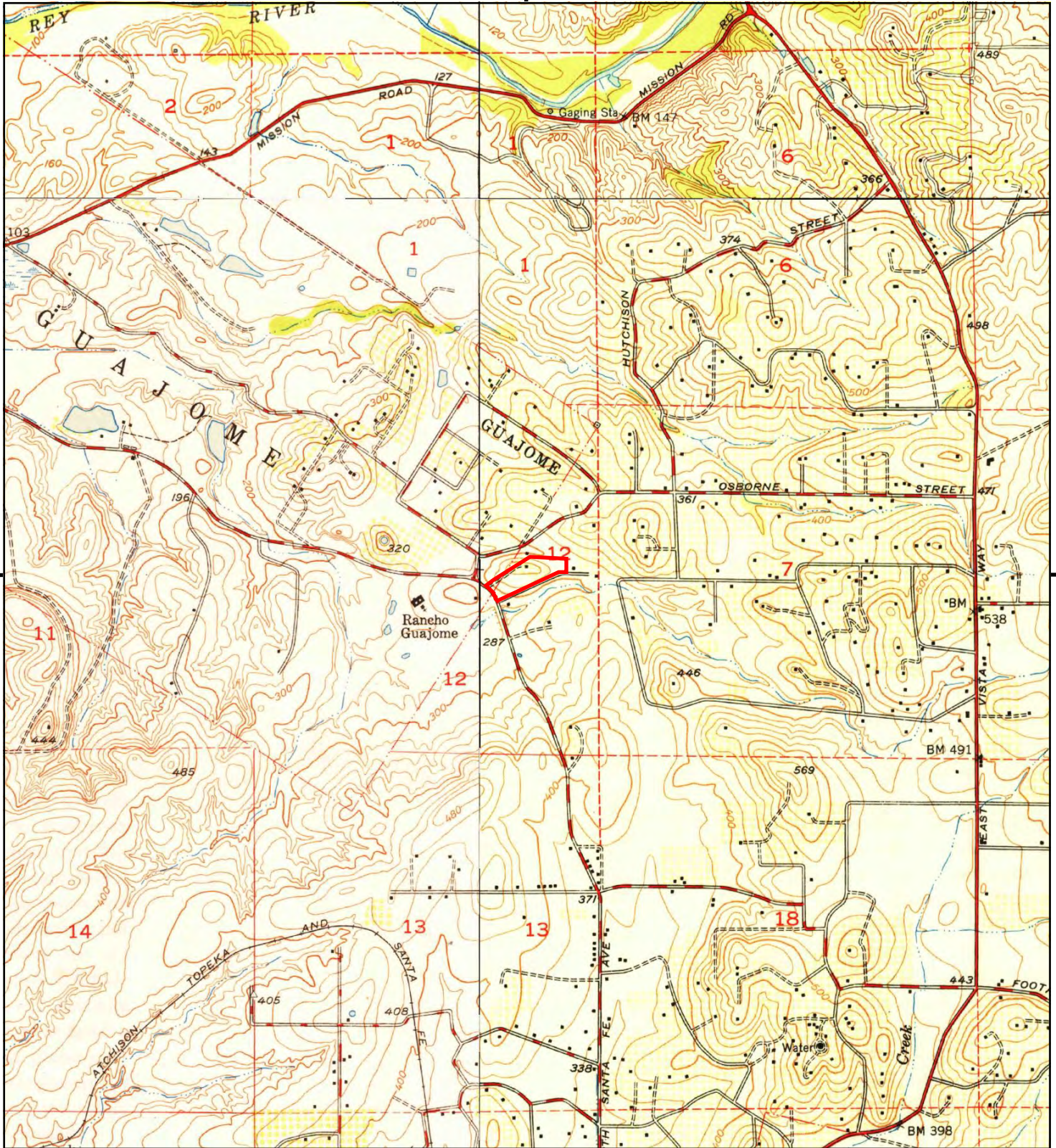


TP, San Marcos, 1968, 7.5-minute  
 NE, Bonsall, 1968, 7.5-minute  
 SW, San Luis Rey, 1968, 7.5-minute  
 NW, Morro Hill, 1968, 7.5-minute

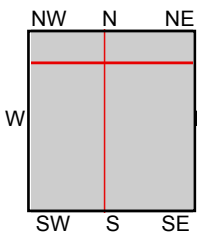
**SITE NAME:** Camino Largo  
**ADDRESS:** N. Sante Fe Ave  
 Vista, CA 92084  
**CLIENT:** Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).

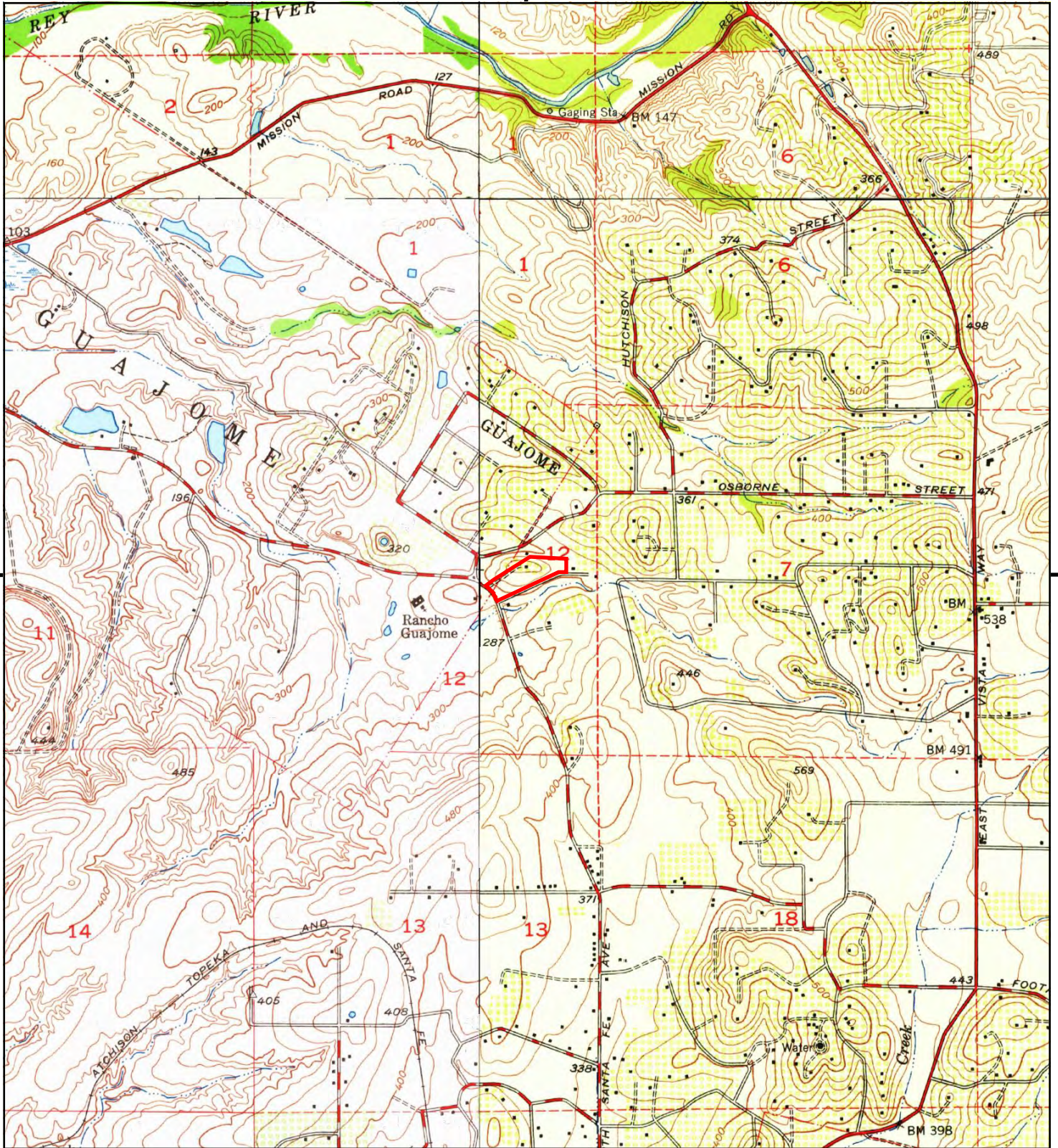


TP, San Marcos, 1949, 7.5-minute  
 NE, Bonsall, 1949, 7.5-minute  
 SW, San Luis Rey, 1949, 7.5-minute  
 NW, Morro Hill, 1949, 7.5-minute

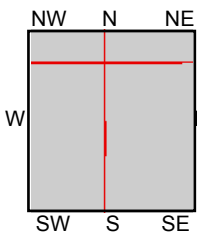
**SITE NAME:** Camino Largo  
**ADDRESS:** N. Sante Fe Ave  
 Vista, CA 92084  
**CLIENT:** Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).

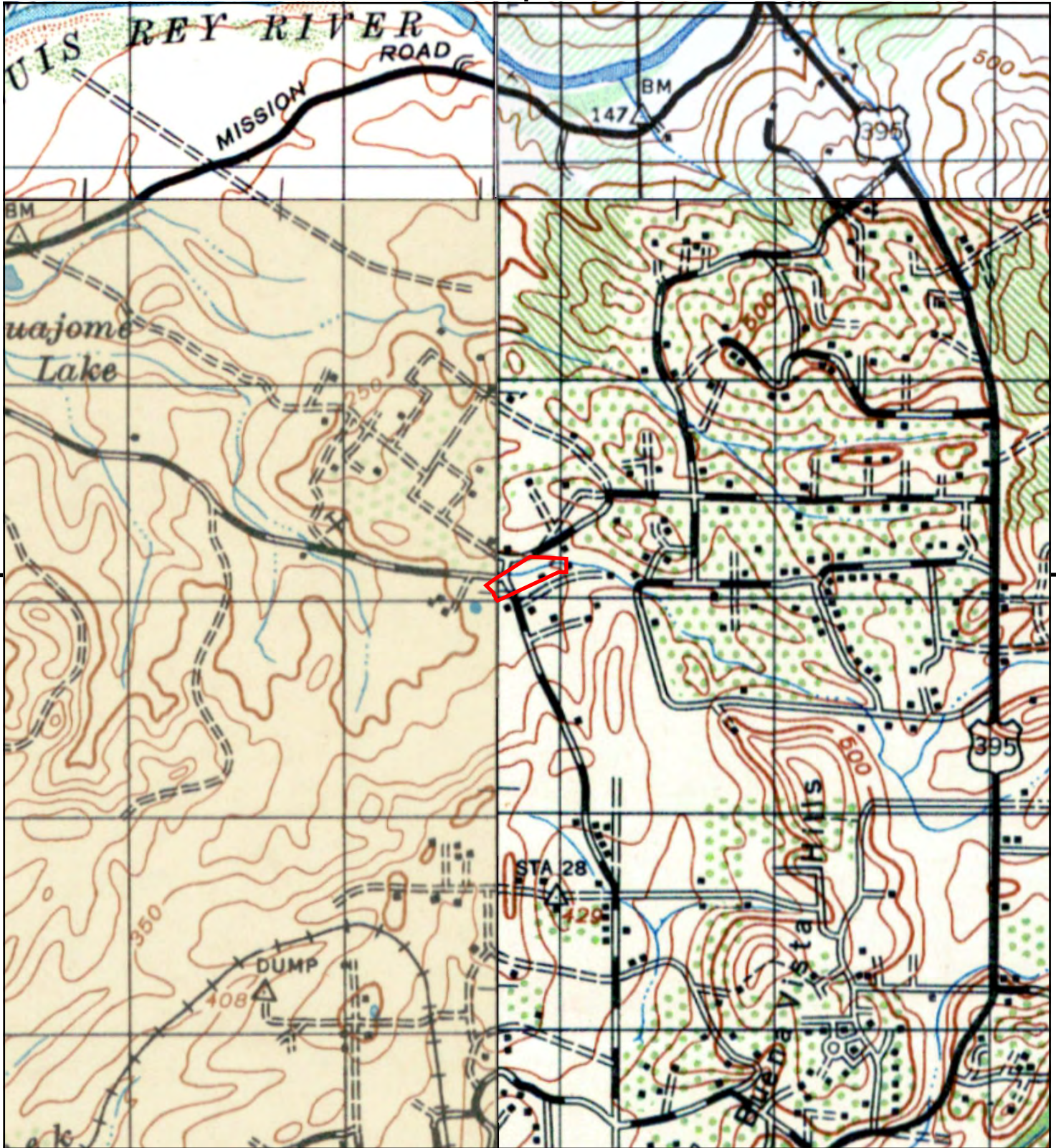


TP, San Marcos, 1948, 7.5-minute  
 NE, Bonsall, 1948, 7.5-minute  
 SW, San Luis Rey, 1948, 7.5-minute  
 NW, Morro Hill, 1948, 7.5-minute

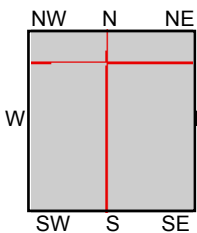
**SITE NAME:** Camino Largo  
**ADDRESS:** N. Sante Fe Ave  
 Vista, CA 92084  
**CLIENT:** Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).



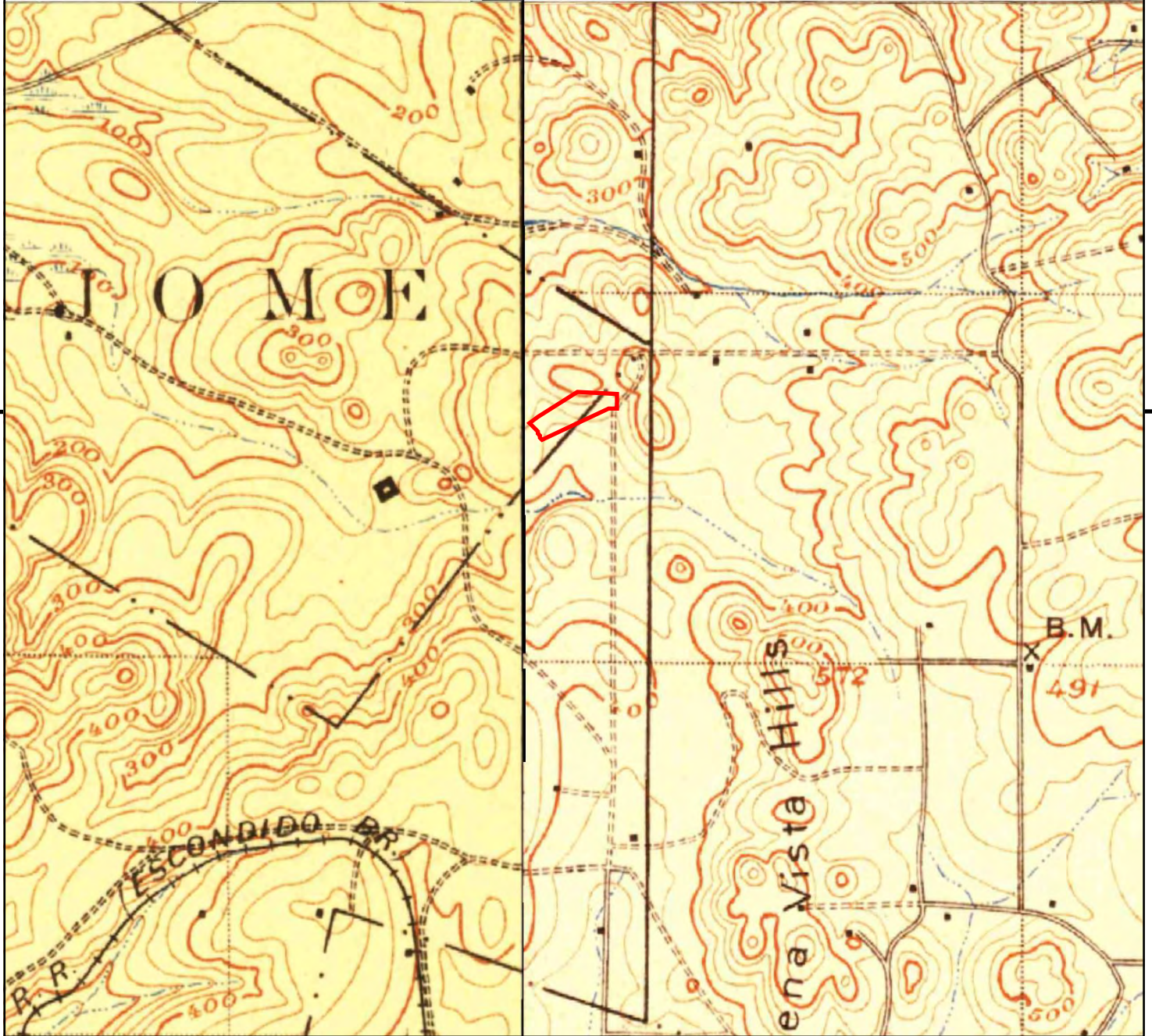
TP, ESCONDIDO, 1947, 15-minute  
 NE, TEMECULA, 1947, 15-minute  
 SW, OCEANSIDE, 1947, 15-minute  
 NW, MARGARITA PEAK, 1950, 15-minute

SITE NAME: Camino Largo  
 ADDRESS: N. Sante Fe Ave  
 Vista, CA 92084  
 CLIENT: Geocon Env. Consultants, Inc.

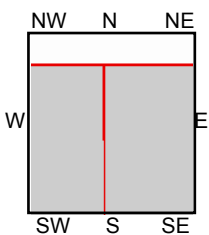




UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED



This report includes information from the following map sheet(s).

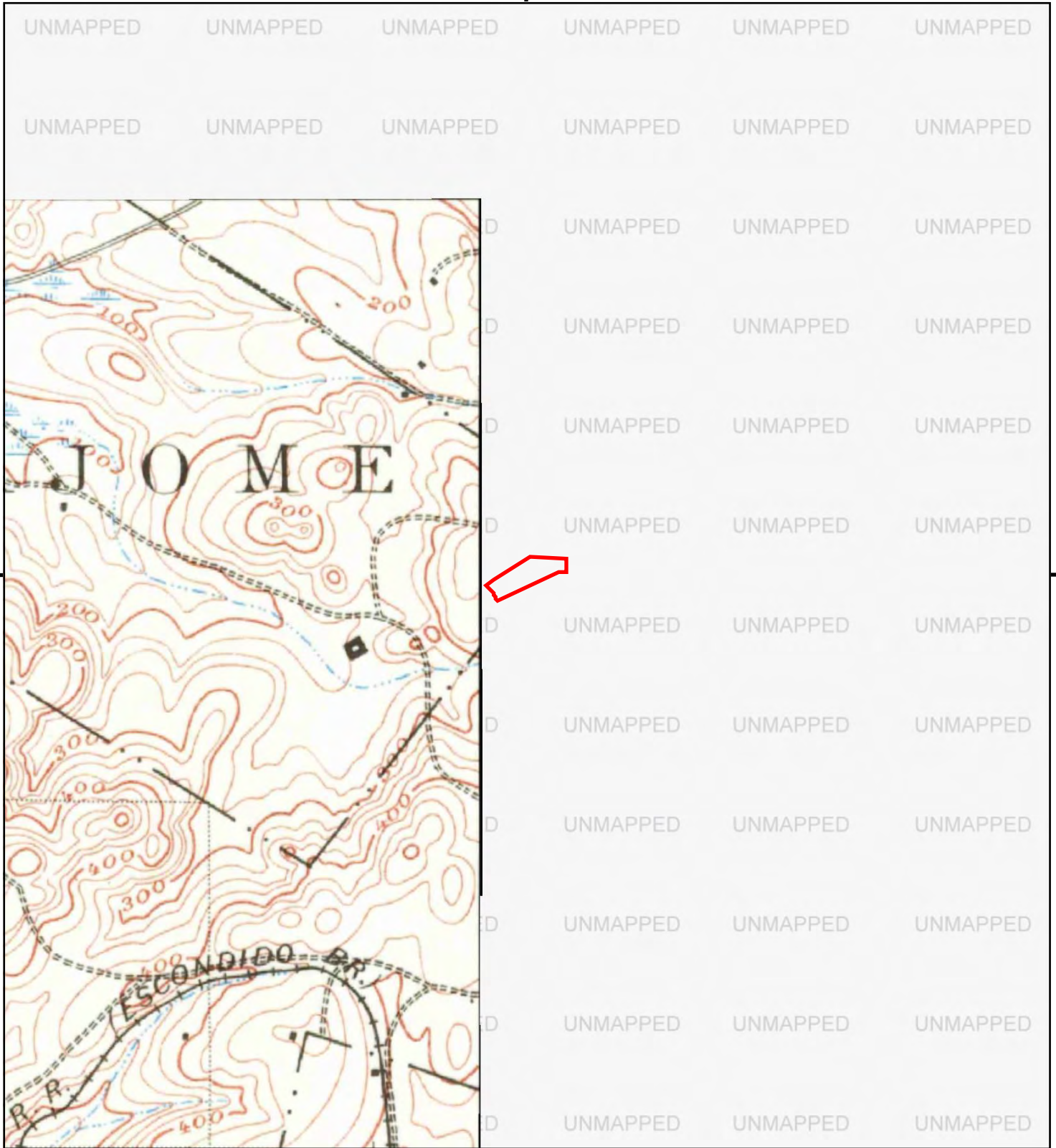


TP, Escondido, 1901, 15-minute  
 SW, Oceanside, 1901, 15-minute

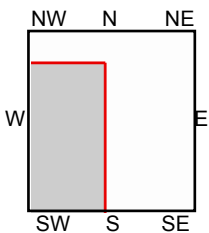
SITE NAME: Camino Largo  
 ADDRESS: N. Sante Fe Ave  
 Vista, CA 92084  
 CLIENT: Geocon Env. Consultants, Inc.







This report includes information from the following map sheet(s).



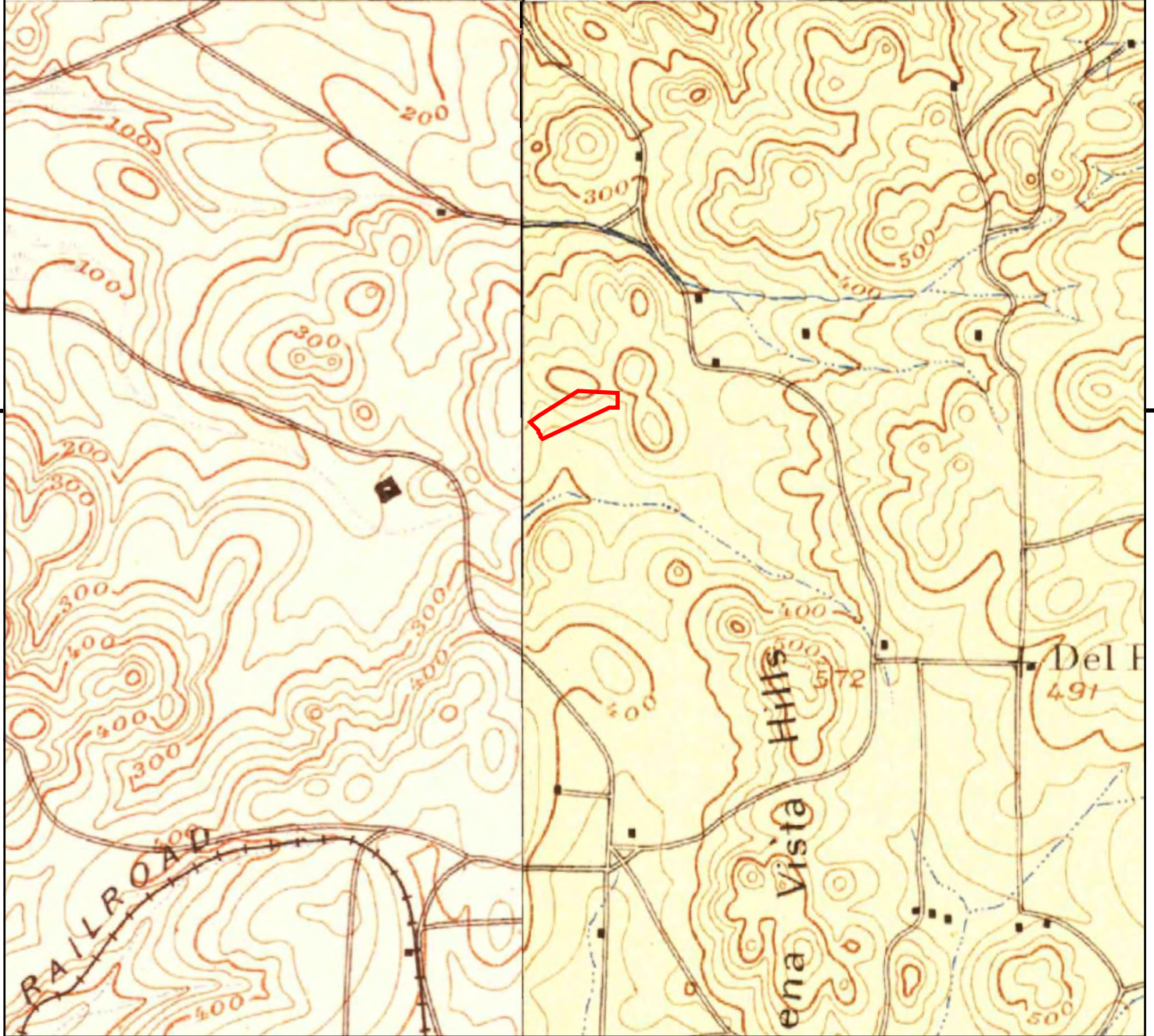
SW, Oceanside, 1898, 15-minute

SITE NAME: Camino Largo  
 ADDRESS: N. Sante Fe Ave  
 Vista, CA 92084  
 CLIENT: Geocon Env. Consultants, Inc.

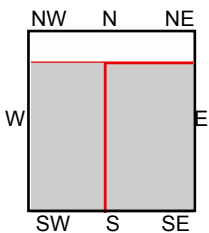
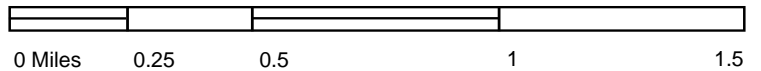




UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED	UNMAPPED



This report includes information from the following map sheet(s).



TP, Escondido, 1893, 15-minute  
SW, Oceanside, 1893, 15-minute

SITE NAME: Camino Largo  
 ADDRESS: N. Sante Fe Ave  
 Vista, CA 92084  
 CLIENT: Geocon Env. Consultants, Inc.



APPENDIX





**Camino Largo**

N Santa Fe Ave  
Vista, CA 92084

Inquiry Number: 6456522.5  
April 22, 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.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## 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.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

Data by

*infoUSA*<sup>®</sup>

Copyright©2008  
All Rights Reserved

### 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>
2017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
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
1986	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1982	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1979	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1975	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1971	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

## FINDINGS

### TARGET PROPERTY STREET

N Santa Fe Ave  
Vista, CA 92084

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<b><u>N SANTA FE AVE</u></b>		
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 A7	EDR Digital Archive
1986	pg A8	Haines Criss-Cross Directory
1982	pg A9	Haines Criss-Cross Directory
1979	pg A10	Haines Criss-Cross Directory
1979	pg A11	Haines Criss-Cross Directory
1975	pg A12	Haines Criss-Cross Directory
1971	pg A13	Haines Criss-Cross Directory
1971	pg A14	Haines Criss-Cross Directory

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**

**N SANTA FE AVE 2017**

1609 GONZALEZ, EZEQUIEL E  
1621 CORTEZ, JOHN J  
1627 WEBB, MICHAEL S  
1633 BRILL, MICHAEL  
1639 MADRID, DANNY R  
1645 CARPENTER, ALFRED B  
1651 ALVAREZ, KEVIN  
1657 JIMINEZ, ANTONIO N  
1701 A CREATIVE BEGINNING PRESCHOOL  
1719 ORTIZ, DARLENE  
1721 ROBLES, ANDRES G  
1755 FRYE, DAN D  
1769 JACOBO, JASON L  
2133 HERNANDEZ, GUALTERIO  
2165 DONAHUE, DAVE  
2167 COTTLE, DAVID O  
2405 TCBY  
2465 RANCHO CHICO  
2511 QUESADA, LOUIS D



**N SANTA FE AVE 2014**

1609	GONZALEZ, EZEQUIEL E
1615	STACCO, WILLIAM L
1621	MIRANDA, GUADALUPE P
1627	JONES, LESTINE
1633	BRILL, TERRY L
1639	MADRID, DANNY R
1645	CARPENTER, ALFRED B
1657	NUNEZ, ANTONIO O
1701	A CREATIVE BEGINNING PRESCHOOL
1713	CARLOS, PEDRO
1719	OCCUPANT UNKNOWN,
1721	ROBLES, ANDRES G
1769	JACOBO, JASON L
1781	GARY, STEPHAN F
2133	SOLORIO, GUADALUPE
2137	OCCUPANT UNKNOWN,
2165	DONAHUE, LORAINA A
2167	COTTLE, MARY
2405	NORTH COAST CHURCH
2465	RANCHO CHICO
2511	CARDENAS, ELIAS

**N SANTA FE AVE 2010**

1609	GONZALEZ, EZEQUIEL E
1615	STACCO, LAWRENCE
1621	MIRANDA, JESS L
1627	CLEVELAND, JOHNNY R
1633	OCCUPANT UNKNOWN,
1639	MADRID, DANNY R
1645	CARPENTER, ALFRED B
1651	OCCUPANT UNKNOWN,
1657	MACEDONIO, BELINDA
1701	CREATIVE BEGINNING PRESCHOOL
1713	CARLOS, PEDRO
1719	OCCUPANT UNKNOWN,
1721	ROBLES, ANDRES G
1755	DELACRUZ, SALOMON
1769	OCCUPANT UNKNOWN,
2123	CHOICE NURSERY
2133	MESINO, ABRAHAM
2137	OCCUPANT UNKNOWN,
2163	OCCUPANT UNKNOWN,
2165	DONAHUE, LORAIN A
2167	COTTLE, MARY
2465	RANCHO CHICO
2511	AQUINO GREEN HOUSE
	QUESADA, LOUIS D

**N SANTA FE AVE 2005**

1609 GONZALEZ, EZEQUIEL E  
1615 STACCO, LAWRENCE  
1621 MIRANDA, JESS L  
1627 JONES, LESTINE  
1639 OCCUPANT UNKNOWN,  
1645 CARPENTER, ALFRED B  
KATE KIMBERLY ANNS TYPING SRVC  
1651 FLORES, GEORGE F  
1657 MACEDONIO, ARACELI  
TWISTER HAULING & DEMO  
1701 A CREATIVE BEGINNING PRESCHOOL  
1713 CARENO, MORGA V  
1755 AVINA, ARTURO H  
1781 HARO, CRUZ G  
2123 CHOICE NURSERY  
2133 CASTELLANOS, PATRICIA  
2137 KELLEY, SAMANTHA  
2163 A & A CAPRET STORE  
A & A CARPET STORE  
EL MOUNSTRO  
PADILLA, HERNANDEZ C  
2167 COTTLE, CRYSTAL  
2465 RANCHO CHICO INC  
2511 CALIFORNIA BIRD FARMS  
QUESADA, LOUIS D

**N SANTA FE AVE 2000**

1609 OCCUPANT UNKNOWN,  
1615 JIMENEZ, F R  
1621 MIRANDA, MARK  
1627 JONES, LESTINE  
1631 OCCUPANT UNKNOWN,  
1633 BLEUL, STEVEN  
1639 MADRID, DANNY R  
1645 CARPENTER, K  
1649 TOSTADO, JAMES J  
1651 OCCUPANT UNKNOWN,  
1657 OCCUPANT UNKNOWN,  
1701 A CREATIVE BEGINNING PRE SCHOOL OF VISTA  
1713 OCCUPANT UNKNOWN,  
1755 OCCUPANT UNKNOWN,  
1769 OCCUPANT UNKNOWN,  
1781 HARO, CRUZ  
2133 HORVATH, ZOLTAN  
2511 QUESADA, LOUIS

**N SANTA FE AVE 1995**

1609	OCCUPANT UNKNOWNN
1615	CAMACENA, ABRAM
1627	OCCUPANT UNKNOWNN
1629	OCCUPANT UNKNOWNN
1633	BRILL, TERRY
1639	MARQUEZ, MARK
1645	OCCUPANT UNKNOWNN
1657	OCCUPANT UNKNOWNN
1713	DOMINGUEZ, TERESA
1721	ZERMENO, JOSE L
1755	OCCUPANT UNKNOWNN
1769	JACOBO, LARRY
1781	HARO, MARIA
2123	CHOICE NURSERY
2133	FALK, E
2511	QUESADA, LOUIS

**N SANTA FE AVE**

**1992**

1609 CUEVAS, FRANK R  
1627 PRICE, DUANE L  
1639 MARQUEZ, MARCOS  
1713 HUDDLESON, ROBERT R  
1781 BERNARDI, STEPHEN S  
2123 CHOICE NURSERY  
2165 DONAHUE, ALLAN D  
2465 KARINAS FLOWERS  
2511 CA BIRD FARM

## N SANTA FE AVE 1986

1609	CUEVAS FRANK R	724-3259
1610.....	VILLA DEL NRTE APTS	
	ACKISS KIMBERLY	758-7296 +6
	ADAMS PATRICIA L	941-8762 4
	AVILA JEROME	726-5756 5
36	BECKTEL RONALD D	726-6042 9
45	BLAHA VLADIMIR	724-7994
	CHU YOUNG 2D	726-0356 5
	COYLE ROBERTE	758-2987 +6
	GARLOW DAVID	724-8732 +6
	GARLOW PAULA	724-8732 +6
	GRAHAM BRADLEY	726-5239 5
	HAAS ERNIE	758-8269 +6
	HAAS PAULA	758-8269 +6
	HUCKABY R	724-2507 5
	KIRKLAND JEANETTE	724-5416 5
	LAWTER RICKY	940-0473 +6
	LEMASTER MARTHA	940-9148 +6
	MERRYMAN JAMES C	758-5429 +6
	NGUYEN HUNG V	941-1709 2
	PARSONS JOHN	941-0306 4
	PEREZ CARMEN	726-6493
	PEREZ FRANK	726-6493 5
	RAMEY NELSON	941-5013 5
	ROSSOVICH EDMOND	726-9567 +6
	SANOVAL ARMANDO	758-2362
	SANOVAL MILLIE	758-2362 5
	SHELBY D A	758-9567 5
	TALCOTT DAVID C	724-0702 5
	VELEZ JAIME	941-2450 5
	VILLA DEL NORTE APT	941-6838 3
	WALLER CALVIN D	758-2717 4
	WIESE TAMARA	941-2450 5
1610	.....	
1612	XXXX	00
1615	XXXX	00
1621	XXXX	00
1626	APARTMENTS	
	BACHAND E M	941-3683 5
	BRUSH JIM	726-9216 4
	GOGGIN JOHN P	941-3215 3
	JUSAK PAUL	726-3250 +6
	KIMBROUGH W E	758-3463 5
	LAURIN ROBT A	758-8580 5
4	LEONARD THOS D 3D	941-0919 1
	MCDOWELL DENNIS C	758-5149 4
	SCHNURR VERLE	758-1647 5
36	VARRIN A	726-1153 0
	WILKINSON W	726-8702 6
1626	.....	
1627	ANDERSON BILL	758-0193
	ANDERSON VICKIE	758-0193 3
1633	JANE MATT C	724-0679
1639	MARQUEZ MARCOS	724-0181
1645	XXXX	00
1651	XXXX	00
1657	VAN ANH	758-5495 3
1700	XXXX	00
1721	HATLAVONGSA SA	758-5205 4
1769	DIXON ELIZABETH	724-9171 4
	MILEY BARBARA	724-9171 4
1781	PERKINS KATHY J	758-2845
	PERKINS STEVE	758-2845 3
2040	ANTIQUE GS&STM ENH	941-1791 3
	FARM MUSEUM	941-1791 3
	HAMBERGER D	726-2462 2
2133	XXXX	00
2137	XXXX	00
2163	SMITH WM	724-72D9
2165	DONAHUE ALLAN D	724-3023 9
2167	XXXX	00
2206	GRAHAM DENNIS	726-7057 5
	GRAHAM SPAS	941-4122 2
2210	XXXX	00
2403	XXXX	00
2405	B L K TRCKNG&EQUIP	758-2000 5
	GUAJOME GRANITE	758-4708 1
	R D CONSTRUCTION CO	758-4310 4
2502	XXXX	00
2511	CA BIRD FARM	724-1337 1
2700	OMORIS ROADSD STAND	724-5500
2766	XXXX	00
2768	XXXX	00
*	99 BUS 219 RES	52 NEW

## N SANTA FE AVE      1982

1609	CUEVAS FRANK R	724-3259	4
1610	APARTMENTS		
36	BECKTEL RONALD D	726-6042	9
45	BLAHA VLAOIMIR	724-7994	5
	CARTER LAMAR	941-1259	+2
	HILIM WM	726-6368	1
	JAGER LINDA	941-0665	+2
21	KUNZ JEFFERY L	758-3045	1
9	LIGHTBOURNE RICHARD	941-0870	1
22	MCCORMICK REFRIGTM	724-9080	1
	MILLER GLENN K	941-2518	+2
	MORTON BOB	941-9477	+2
	NGUYEN HUNG V	941-1709	+2
	PECK JOHN	758-8860	+2
20	PREISING T	726-6176	4
	RIBERA MIGUEL A	758-5684	+2
	RIVERA GUILLERMO	941-9237	+2
	RODRIGUEZ GLORIA	758-4755	+2
	SANDERS EO J JR	941-5418	+2
10	SANDERS JAMES R	758-5984	0
	SCHAUMBURG C Y	726-5016	+2
	SCHULTE DONALD R	758-1813	+2
6	STRICKER B JUNE	726-0279	6
	TAYLOR GINGER K	726-3381	+2
	TOMS PAMELA J	941-8573	+2
	TRUESDILL JOS A	941-0321	+2
1610	XXXX	00	
1612	XXXX	00	
1615	XXXX	00	
1621	XXXX	00	
1626	APARTMENTS		
	ANDERSON WM S	941-3159	+2
	BARCIA M E	941-3134	+2
	COLLEN C	941-4279	1
	EOLEBROCK JAS L	941-9335	+2
20	HAGEN DALE	726-1328	1
	HANDLON KATHLEEN	758-9160	+2
	HILLAN AARON J	941-6737	+2
3	HOUSKA J L	724-8751	1
	KAVIANIAN REZA	941-1745	+2
	LANCERS T C	726-5240	+2
6	LAURIN ROBT A	758-8580	1
4	LEONARO THOS D 3D	941-0919	1
	PERALTA DOMINGO	724-2949	1
27	RAMIREZ ANTHONY M	758-8708	0
	SUNDEN A C	941-5230	+2
35	VARRIN A	726-1153	0
	YI MATTHEW	758-2354	+2
1626	MILLER JACOB S	724-0735	1
1633	JANE MATT C	724-0679	6
1639	MARQUEZ MARCOS	724-0181	3
1645	XXXX	00	
1651	CHATHAM LEE	758-8415	9
1657	WRIGHT ROONEY	941-4896	1
1700	XXXX	00	
1721	RUPP MIKE	726-9359	+2
1769	CASTANEDA JOE	724-8097	0
1781	XXXX	00	
2040	HAMBERGER D	726-2462	+2
	SOUTHWSTN ENGN MSN	941-1791	+2
2133	XXXX	00	
2137	XXXX	00	
2163	SMITH WM	724-7209	
2165	OONAHUE ALLAN D	724-3023	9
2167	XXXX	00	
2206	GRAHAM SPAS	941-4122	+2
2210	ALOIA PETER	941-4792	+2
2405	GUAJOME GRANITE	758-4708	1
2502	XXXX	00	
2511	CALIF BIRO FARM	724-1337	1
	OUESAGA LOUIS	724-1337	0
2700	OMORIS ROADSO STAND	724-5500	
2766	XXXX	00	
2768	XXXX	00	
*	88 BUS	216 RES	63 NEW





## N SANTA FE AVE      1979

1609	CUEVAS FRANK R	724-3259	4
1610	APARTMENTS		
	BATES BRIAN WM	726-1036+	9
	BECKTEL RONALD D	726-6042+	9
45	BLAHA VLADIMIR	724-7994	5
	BRIGHTWELL STEPH	758-1976	8
	BULL BILL	724-8107+	9
	CASTANEDA A B	758-2679	8
	CRAFT MIKE	758-0403+	9
	CRAIN CHARLES T	758-3419+	9
	DIXON JERRY	724-9080+	9
	HAMMES RONALD	758-4369+	9
	HANCOCK KRIS	758-8575+	9
	HARRISON TOM	726-5049+	9
9	HOLMBERG MARCELLA	724-2212	7
	JEAN ALAN	758-7629+	9
	LEBLANC LORETTA	758-5268	8
	LOPEZ ROSALIE	758-5002+	9
5	MACDONALD SCOTT	724-3954	7
	MALLOY GIRARD	726-0603+	9
	MEYERS RANDALL	758-3269	8
	MILLER STEPHEN	758-7754+	8
20	PREISING T	726-8176	4
	PYKKONEN ALLEN	726-4301+	8
	QUINTANIA EFRAIN	724-4099+	9
	ROMERO MARTIN	726-9410+	9
	ROSAS RUDOLPH R	726-5171+	9
	STICE J P	758-7689+	9
	STICE RANDY	724-8197+	9
6	STRICKER B JUNE	726-0279	6
	WARREN BENNIE	758-8858+	9
	WILKINSON MICK	758-7023+	9
1610			
1612	XXXX	00	
1615	STACCO LAWRENCE	758-8992+	9
1621	MIRANDA MARK	758-0746+	9
1627	MILLER JACOB S	726-6723	3
1633	JANE MATT C	724-0679	6
1639	MARQUEZ MARCOS	724-0181	3
1645	CARTER WAYNE	726-9108	6
1651	CHATHAM LEE	758-8416+	9
	POULIN JOE	758-8735+	9
1657	KOLLER DALE R	726-0266+	9
1721	RODRIGUEZ L	726-6944+	9
1755	VIGIL JENELL	726-5890	5
	VIGIL PAUL	726-5890	5

N SANTA FE AVE 1979

Target Street	Cross Street	Source
SANTA FE AV N		92083 CONT
1769	GONZALES TERRY L	758-1745+9
1781	WRIGHT K	726-1908+9
2133	XXXX	00
2137	SHUMAKER E R	724-4102 0
2163	SMITH BARBARA ANN	758-4644 8
	SMITH WM	724-7209
2165	DONAHUE ALLAN D	724-3023+9
2167*	SC VISTA APPLE	758-3830+9
2206	CIMARUSTI ROCCO	724-2719 0
2405*	ARAIZA PAVNG&EXCVTG	724-8895 5
	* ROBERT LYNCH TRUCK	724-3294 8
2511*	BIRD FARM	724-1337 6
	* PARAKEET FARM	724-1337 5
	* QUESADA LOUS	724-1337+9
2700*	OMORIS ROADSD STAND	724-5500
2766*	K M L O AM NORTH CO	724-8333 2
	* K M TEN K M LO AM	724-8333+9
2768	XXXX	00
2929	HELMUTH MELVIN	758-0920 7
	* 86 BUS 197 RES	88 NEW

## N SANTA FE AVE      1975

1609	CUEVAS FRANK R	724-3259 4
1610.....	APARTMENTS	
	ADAMS M	724-5714+5
	BLAMA VLADIMIR	724-7994+5
	BURDICK MICHAEL	724-4736+5
	CHIPSER JOS	724-1742+5
	DAVIS D F	726-3707+5
	GIDLEY JOHN B	724-1109+5
	GIDLEY SUSAN B	724-1109+5
	HACKNEY V	724-9613+5
24	HANSEN MARISE	726-5315 4
2	HULTS A E	724-9865 4
	JOHNSTON JOHN H	724-0552+5
	LEGER HERBERT M	726-8367+5
	LOPEZ ABRAHAM	726-4025+5
	LOPEZ VALERIE	726-4025+5
4	MARIANO JOSEPHINE	724-5818 3
15	MUIR J L	724-5085 3
10	NESEL N	724-6923 4
20	PREISING T	726-6176 4
	RAINES LELAND L	724-1487+5
	ROBERTS VINCENT H	726-3733+5
6	SMITH L B	724-1572 4
	STORMS CAROLYN	726-8440+5
	STORMS RANDON L	726-8440+5
	TOLHURST M RICHARD	724-3382+5
	TREBBE MARTHA T	726-7527+5
	VARRIN A	726-6922 3
16	MILLIS HARRY C	726-4229 3
	MISEMAN ELVA M	724-0965+5
34	YAMADA CHUNG CHI	726-4577 4
34	YAMADA HIROSHI H	726-4577 4
30	ZELLERS MICHAEL	726-3572 4
1610.....	.....	
1612	XXXX	00
1615	XXXX	00
1621	MIRANDA CONNIE	724-0035 0
	MIRANDA ROSIE	724-0035 1
1627	MILLER JACOB S	726-6723 3
1639	MARQUEZ MARCOS	724-0181 3
1645	XXXX	00
1721	ARREDONDO LAWRENCE	724-6896+5
1755	VIGIL JENELL	726-5890+5
	VIGIL PAUL	726-5890+5
1769	JACOBO FELIX R	724-6641+5
1781*	BAHAI FAITH	724-7342 4
	*CONTRACT DOCUMENTS	724-7342 4
	NELSON DONALD A	724-7342+5
2133	XXXX	00
2137	SHUMAKER E R	724-4102 0
2163	SMITH BARBARA ANN	726-7068 4
	SMITH M M	724-7209
2165	OGNAHUE ALLAN MSGT	724-3023 3
2167	ABRAHAMSON LEONARD	724-6506+5
2206	CIMARUSTI ROCCO	724-2719 0
2405*	ARAIZA PAVNG&EXCVTG	724-8695+5
2511*	PARAKEET FARM	724-1337+5
2700*	OMORIS RAOASO STAND	724-5500
2766*	M L O AM BRDCSTG	724-3333 2
2768	MEACHAM MARCUS	724-7439 4
2929	SHIRLEY OORIS E	726-5915 4
	* 76 BUS 201 RES	89 NE*

## N SANTA FE AVE

1971

1609	CUEVAS FRANK R	724-3259
1612	GOMEZ EPIFANIO	724-6122+1
1621	MIRANDA CONNIE	724-0035 0
	MIRANDA ROSIE	724-0035+1
1627	XXXX	00
1645	GALVEZ SAL	724-0183
1721	ROUSH RONDA	724-2296+1
1755	CASTER IOA M	724-0473+1
	CASTER ROBT J W	724-0473+1
1781	SAUNDERS VERNON	724-2035 0
2133	XXXX	00
2137	SHUMAKER E R	724-4102 0
2163	SMITH WM	724-7209
2165	DOONAHUE ALLAN MSGT	724-3023

## N SANTA FE AVE 1971

..SANTA FE AV N 92083 CONT..  
 2167\*MILDRED&ESTHERS 8TY724-2281+1  
 2206 CIMARUSTI ROCCO 724-2719 0  
 2405\*MAGEE ANO ARAIZA 724-8695 0  
 2511 QUESADA LDUIS 724-1337+1  
 2700\*OMORIS ROAOSD STAND724-5500  
 2766\*KMLO AM 8RDCSTG CO 724-8333  
     \*KMLO AM 8ROADCASTNG724-8333+1  
     SANDS ANN 724-5991 0  
     SANDS MAURICE 8 724-5991 0  
 2929 XXXX DO  
     \* 79 8US 150 RES 55 NEW

APPENDIX





Enthalpy Analytical  
931 West Barkley Ave  
Orange, CA 92868  
(714) 771-6900

enthalpy.com

Lab Job Number: 444757  
Report Level: II  
Report Date: 05/11/2021

**Analytical Report** *prepared for:*

Troy Reist  
Geocon Incorporated  
6960 Flanders Drive  
San Diego, CA 92121

Location: Camino Largo, G2721-62-01

*Authorized for release by:*

Diane Galvan, Project Manager  
714-771-9928  
[diane.galvan@enthalpy.com](mailto:diane.galvan@enthalpy.com)

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE  
Member

## Sample Summary

---

Troy Reist  
Geocon Incorporated  
6960 Flanders Drive  
San Diego, CA 92121

Lab Job #: 444757  
Location: Camino Largo, G2721-62-01  
Date Received: 04/30/21

---

Sample ID	Lab ID	Collected	Matrix
S1-0'	444757-001	04/30/21 09:00	Soil
S1-0.5'	444757-002	04/30/21 09:05	Soil



## Case Narrative

---

Geocon Incorporated  
6960 Flanders Drive  
San Diego, CA 92121  
Troy Reist

Lab Job Number: 444757  
Location: Camino Largo, G2721-62-01  
Date Received: 04/30/21

---

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

### **TPH-Extractables by GC (EPA 8015M):**

High recovery was observed for diesel C10-C28 in the MS for batch 266510; the parent sample was not a project sample, the LCS was within limits, and the high recovery was not associated with any reported results. High RPD was also observed for diesel C10-C28 in the MS/MSD for batch 266510; the high RPD was not associated with any reported results. S1-0' (lab # 444757-001) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

### **PCBs (EPA 8082):**

High recoveries were observed for Aroclor-1016 in the MS/MSD for batch 266450; the parent sample was not a project sample, the LCS was within limits, and this analyte was not detected at or above the RL in the associated samples. Responses exceeding the instrument's linear range were observed for Aroclor-1016 in the MS/MSD for batch 266450; affected data was qualified with "E". S1-0' (lab # 444757-001) was diluted due to the color of the sample extract. No other analytical problems were encountered.

# ENTHALPY ANALYTICAL

**Enthalpy Analytical - Orange**  
 931 W. Barkley Avenue, Orange, CA 92868  
 Phone 714-771-6900

Chain of Custody Record  
 Lab No: 444757  
 Page: of

Turn Around Time (rush by advanced notice only)  
 Standard: X 5 Day: 3 Day:  
 2 Day: 1 Day: Custom TAT:

Matrix: A = Air S = Soil/Solid  
 W = Water DW = Drinking Water SD = Sediment  
 PP = Pure Product SEA = Sea Water  
 SW = Swab T = Tissue WP = Wipe O = Other  
 (lab use only)

Preservatives:  
 1 = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2 = HCl 3 = HNO<sub>3</sub>  
 4 = H<sub>2</sub>SO<sub>4</sub> 5 = NaOH 6 = Other

CUSTOMER INFORMATION			PROJECT INFORMATION			ANALYSIS REQUEST			TEST INSTRUCTIONS / COMMENTS			
Company:	Geocon Inc.	Name:	Camino Largo	Sample ID		8260 VOCs						
Report To:	Troy Reist	Number:	G2721-62-01	Sampling Date		8015 TPH GRO + ORO + DRO						
Email:	reist@geocoinc.com	P.O. #:		Sampling Time		8270 sVOCs						
Address:	6960 Flanders Drive	Address:		Matrix		8081 OCPs						
Phone:	San Diego, CA 92127	Global ID:		Container No. / Size		6010B Lead						
Fax:	858 558-6900	Sampled By:	Troy Reist	Matrix		6010 Title 22 Metals						
	858 558-6159			Pres.		8082 PCBs						
1	S1-0'	04/30/21	0900am	S	1-4oz		X					
2	S1-0.5'	04/30/21	0905am	S	1-4oz		X					
3												
4												
5												
6												
7												
8												
9												
10												

Soil Samples from beneath crane

Signature	Print Name	Company / Title	Date / Time
<i>Troy Reist</i>	Troy Reist	Geocon Inc.	04/30/2021; 9:50
<i>Jake Chalmers</i>	Jake Chalmers	EA-SD	4/30/2021 1230
<i>Jake Chalmers</i>	Jake Chalmers	EA-SD	4/30/2021 1633
<i>Jim S. H. Mendenhall</i>	Jim S. H. Mendenhall	EA-SD	4/30/2021 1433 HR8
<i>Jim S. H. Mendenhall</i>	Jim S. H. Mendenhall	EA-SD	4/30/2021 1555 HR8
<i>Elizabeth Rammen</i>	Elizabeth Rammen	EA	4/30/2021 15:55



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Geocon Inc. Project: Camino Largo G2721-62-01  
 Date Received: 4/30/2021 Sampler's Name Present:  Yes  No

**Section 2**  
 Sample(s) received in a cooler?  Yes, How many? 1  No (skip section 2) Sample Temp (°C) (No Cooler): \_\_\_\_\_  
 Sample Temp (°C), One from each cooler: #1: 5.6 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_  
*(Acceptance range is < 6°C but not frozen for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*  
 Shipping Information: \_\_\_\_\_

**Section 3**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler Temp (°C): #1: 1.2 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

**Section 4**

	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sample IDs present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sampling dates & times present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is a relinquished signature present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the tests required clearly indicated on the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If custody seals are present, were they intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate in Section 4 below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the samples collected in the correct containers for the required tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the containers labeled with the correct preservatives?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Was a sufficient amount of sample submitted for the requested tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Section 5 Explanations/Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 6**  
 For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_  
 Project Manager's response:  
 \_\_\_\_\_

Completed By: [Signature] Date: 04/30/2021

## Analysis Results for 444757

Troy Reist  
 Geocon Incorporated  
 6960 Flanders Drive  
 San Diego, CA 92121

Lab Job #: 444757  
 Location: Camino Largo, G2721-62-01  
 Date Received: 04/30/21

<b>Sample ID: S1-0'</b>	<b>Lab ID: 444757-001</b>	<b>Collected: 04/30/21 09:00</b>
	<b>Matrix: Soil</b>	

444757-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M									
Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	250	25	266510	05/04/21	05/05/21	MES
DRO C10-C28	<b>13,000</b>		mg/Kg	250	25	266510	05/04/21	05/05/21	MES
ORO C28-C44	<b>13,000</b>		mg/Kg	500	25	266510	05/04/21	05/05/21	MES
<b>Surrogates</b>				<b>Limits</b>					
n-Triacontane		DO	%REC	70-130	25	266510	05/04/21	05/05/21	MES
Method: EPA 8082									
Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1221	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1232	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1242	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1248	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1254	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1260	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1262	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
Aroclor-1268	ND		ug/Kg	100	2	266450	05/04/21	05/10/21	KTD
<b>Surrogates</b>				<b>Limits</b>					
Decachlorobiphenyl (PCB)	43%		%REC	19-121	2	266450	05/04/21	05/10/21	KTD

## Analysis Results for 444757

<b>Sample ID: S1-0.5'</b>	<b>Lab ID: 444757-002</b>	<b>Collected: 04/30/21 09:05</b>
<b>Matrix: Soil</b>		

444757-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M									
Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	266510	05/04/21	05/05/21	MES
DRO C10-C28	<b>490</b>		mg/Kg	10	1	266510	05/04/21	05/05/21	MES
ORO C28-C44	<b>370</b>		mg/Kg	20	1	266510	05/04/21	05/05/21	MES
<b>Surrogates</b>				<b>Limits</b>					
n-Triacontane	76%		%REC	70-130	1	266510	05/04/21	05/05/21	MES
Method: EPA 8082									
Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1221	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1232	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1242	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1248	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1254	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1260	<b>57</b>		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1262	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
Aroclor-1268	ND		ug/Kg	50	1	266450	05/04/21	05/05/21	KTD
<b>Surrogates</b>				<b>Limits</b>					
Decachlorobiphenyl (PCB)	36%		%REC	19-121	1	266450	05/04/21	05/05/21	KTD

DO Diluted Out  
 ND Not Detected

## Batch QC

<b>Type: Blank</b>	<b>Lab ID: QC923056</b>	<b>Batch: 266450</b>
<b>Matrix: Soil</b>	<b>Method: EPA 8082</b>	<b>Prep Method: EPA 3546</b>

QC923056 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Aroclor-1016	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1221	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1232	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1242	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1248	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1254	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1260	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1262	ND		ug/Kg	51	05/04/21	05/05/21
Aroclor-1268	ND		ug/Kg	51	05/04/21	05/05/21
Surrogates				Limits		
Decachlorobiphenyl (PCB)	67%		%REC	19-121	05/04/21	05/05/21

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC923060</b>	<b>Batch: 266450</b>
<b>Matrix: Soil</b>	<b>Method: EPA 8082</b>	<b>Prep Method: EPA 3546</b>

QC923060 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	302.4	500.0	ug/Kg	60%		14-150
Aroclor-1260	423.5	500.0	ug/Kg	85%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	27.52	50.00	ug/Kg	55%		19-121

<b>Type: Matrix Spike</b>	<b>Lab ID: QC923061</b>	<b>Batch: 266450</b>
<b>Matrix (Source ID): Soil (444642-001)</b>	<b>Method: EPA 8082</b>	<b>Prep Method: EPA 3546</b>

QC923061 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	1,105	ND	500.0	ug/Kg	221%	E,*	42-127	1
Aroclor-1260	98,090	38720	500.0	ug/Kg	11761%	E,NM	38-130	1
Surrogates								
Decachlorobiphenyl (PCB)	52.28		50.00	ug/Kg	105%		19-121	1

## Batch QC

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC923062</b>	<b>Batch: 266450</b>
<b>Matrix (Source ID): Soil (444642-001)</b>	<b>Method: EPA 8082</b>	<b>Prep Method: EPA 3546</b>

QC923062 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	1,179	ND	500.0	ug/Kg	236%	E,*	42-127	30	30	1
Aroclor-1260	81,400	38720	500.0	ug/Kg	8422%	E,NM	38-130	30	30	1
<b>Surrogates</b>										
Decachlorobiphenyl (PCB)	48.74		50.00	ug/Kg	97%		19-121			1

<b>Type: Blank</b>	<b>Lab ID: QC923227</b>	<b>Batch: 266510</b>
<b>Matrix: Soil</b>	<b>Method: EPA 8015M</b>	<b>Prep Method: EPA 3580</b>

QC923227 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C6-C10	ND		mg/Kg	10	05/04/21	05/05/21
DRO C10-C28	ND		mg/Kg	10	05/04/21	05/05/21
ORO C28-C44	ND		mg/Kg	20	05/04/21	05/05/21
<b>Surrogates</b>				<b>Limits</b>		
n-Triacontane	101%		%REC	70-130	05/04/21	05/05/21

<b>Type: Lab Control Sample</b>	<b>Lab ID: QC923228</b>	<b>Batch: 266510</b>
<b>Matrix: Soil</b>	<b>Method: EPA 8015M</b>	<b>Prep Method: EPA 3580</b>

QC923228 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	213.9	250.0	mg/Kg	86%		76-122
<b>Surrogates</b>						
n-Triacontane	10.27	10.00	mg/Kg	103%		70-130

<b>Type: Matrix Spike</b>	<b>Lab ID: QC923229</b>	<b>Batch: 266510</b>
<b>Matrix (Source ID): Soil (444740-016)</b>	<b>Method: EPA 8015M</b>	<b>Prep Method: EPA 3580</b>

QC923229 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	619.3	112.3	250.0	mg/Kg	203%	*	62-126	5
<b>Surrogates</b>								
n-Triacontane	11.15		10.00	mg/Kg	111%		70-130	5

## Batch QC

<b>Type: Matrix Spike Duplicate</b>	<b>Lab ID: QC923230</b>	<b>Batch: 266510</b>
<b>Matrix (Source ID): Soil (444740-016)</b>	<b>Method: EPA 8015M</b>	<b>Prep Method: EPA 3580</b>

QC923230 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	422.4	112.3	250.0	mg/Kg	124%		62-126	38*	35	5
<b>Surrogates</b>										
n-Triacontane	10.39		10.00	mg/Kg	104%		70-130			5

- \* Value is outside QC limits
- E Response exceeds instrument's linear range
- ND Not Detected
- NM Not Meaningful: Sample concentration > 4X spike concentration