Rose Glen Specific Plan Residential Project

Draft Initial Study/Mitigated Negative Declaration
Environmental Assessment No. 21-0010

July 2022 | 03669.00003.001

Prepared for:

City of Upland
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Upland, CA 91786

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TABLE OF CONTENTS

Section **Page**

1.0 Introduction 1

1.1 Initial Study Information Sheet 1
1.2 Environmental Factors Potentially Affected 4
1.3 Determination 5

2.0 Environmental Initial Study Checklist 6

I. Aesthetics 7
II. Agriculture and Forestry Resources 9
III. Air Quality 11
IV. Biological Resources 18
V. Cultural Resources 20
VI. Energy 26
VII. Geology and Soils 27
VIII. Greenhouse Gas Emissions 31
IX. Hazards and Hazardous Materials 36
X. Hydrology and Water Quality 41
XI. Land Use and Planning 46
XII. Mineral Resources 48
XIII. Noise 50
XIV. Population and Housing 55
XV. Public Services 57
XVI. Recreation 60
XVII. Transportation and Traffic 61
XVIII. Tribal Cultural Resources 65
XIX. Utilities and Service Systems 71
XX. Wildfire 74
XXI. Mandatory Findings of Significance 76

3.0 References 79

4.0 List of Preparers 81

TABLE OF CONTENTS (cont.)

LIST OF APPENDICES

A Air Quality and Greenhouse Gas Emissions Technical Report and Energy Calculations
B Cultural Resources Reports
C Geotechnical Evaluation
D Environmental Site Assessments
E Hydrology Study
F Acoustical Analysis Report
G Traffic Impact Analysis

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	Project Vicinity (Aerial Photograph)	2
3	Site Plan	2

LIST OF TABLES

No.	Title	Page
1	Daily Construction Emissions	14
2	Daily Operational Emissions	14
3	Maximum Localized Daily Construction Emissions	16
4	Estimated Construction GHG Emissions	33
5	Total Estimated Operational GHG Emissions	33
6	Off-site Traffic Noise Levels	51
7	Construction Equipment Noise Levels	52

ACRONYMS AND ABBREVIATIONS

AAQS	Ambient Air Quality Standards
AB	Assembly Bill
ADT	average daily trips
AIA	Airport Influence Area
ALUCP	Airport Land Use Compatibility Plan
APE	Area of Potential Effect
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
ASTM	American Society for Testing Materials International
BMP	Best Management Practice
CA FID UST	California Inventory Database
CAAQS	California Ambient Air Quality Standards
CAL FIRE	California Department of Forestry and Fire Protection
CalEEMod	California Emissions Estimator Model
CalRecycle	California Department of Resources Recycling and Recovery
CAP	Climate Action Plan
CBC	California Building Code
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
cfs	cubic feet per second
City	City of Upland
CNEL	Community Noise Equivalent Level
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CREC	controlled recognized environmental condition
dB	decibel
dBA	A-weighted decibel
DOC	California Department of Conservation
DPM	diesel particulate matter
du	dwelling unit
EIR	Environmental Impact Report
ESA	Environmental Site Assessment
FAA	Federal Aviation Administration
FHSZ	Fire Hazard Severity Zone
FIND	Facility Index Database
GWP	Global Warming Potential

ACRONYMS AND ABBREVIATIONS (cont.)

HAZNET	Hazardous Waste Information System
HELIX	HELIX Environmental Planning, Inc.
HIST UST	historical underground storage tank
HREC	historical recognized environmental condition
HVAC	heating ventilation and air conditioning
HWTS	Hazardous Waste Transport System
I-	Interstate
IEUA	Inland Empire Utility Agency
IS/MND	Initial Study/Mitigated Negative Declaration
LCFS	Low Carbon Fuel Standard
LED	light-emitting diode
L_{MAX}	maximum reference noise level
LOS	level of service
LST	localized significance thresholds
LUST	leaking underground storage tank
MBTA	Migratory Bird Treaty Act
mgd	million gallons per day
MT	metric ton
NAHC	Native American Heritage Commission
NO_X	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NSLU	noise-sensitive land use
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PPV	peak particle velocity
RAQS	Regional Air Quality Strategy
REC	recognized environmental condition
ROG	reactive organic gas
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Board
SRA	source receptor area
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
sf	square foot/feet

ACRONYMS AND ABBREVIATIONS (cont.)

SO_x	sulfur oxides
SR	State Route
SWEEPS	Statewide Environmental Evaluation and Planning System
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
UMC	Upland Municipal Code
UST	Underground Storage Tank
WQMP	Water Quality Management Plan

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1.0 INTRODUCTION

1.1 Initial Study Information Sheet

1. Project title: Rose Glen Specific Plan Residential Project
2. Lead agency name and address: The City of Upland
460 N. Euclid Ave,
Upland, California 91786
3. Contact person and phone number: Contact: Joshua Winter, Senior Planner
Phone: (909) 931-4143
4. Project location: 1400 East Arrow Highway
Upland, CA 91786
5. Project sponsor's name and address: Century Communities
4695 MacArthur Court, Suite 300
Newport Beach, California 92660
6. General Plan designation: Light Industrial/Business Park (LI-BP)
7. Zoning designation: Light Industrial (LI)
8. Surrounding land uses and setting:

The Rose Glen Specific Plan Residential Project (herein referred to as project or proposed project) is located in the southeast portion of the City of Upland (City) in the southwest region of San Bernardino County, approximately 46 miles east of the Pacific Ocean (see Figure 1, *Regional Location*). The proposed project is located in a developed area on the southern side of East Arrow Highway at 1400 East Arrow Highway, as shown on Figure 2, *Project Vicinity (Aerial Photograph)*. The 4.84-acre parcel is currently operating as a lumber yard. The Assessor's Parcel Number (APN) is 1046-481-14-0000. The site is currently accessible via two driveways along East Arrow Highway at the north end of the property. The project site is bordered by East Arrow Highway and R.F. White Trucking and Gas to the north, single-family residences to the south, Olivewood Drive and single-family residences in the Grovelands subdivision to the east, and Cherokee Wood Products retail warehouse to the west.

9. Description of Project

The proposed project is the construction of 64 two-story single family detached residential homes on 4.84 acres, for an overall density of 13.2 dwelling unit (du)/acre (see Figure 3, *Site Plan*). The homes, which will be designed in the Italianate, Spanish Colonial and Santa Barbara architectural style will range from 1,544 to 1,547 square feet (sf) and extend to a maximum height of 35 feet. Additional project features include 8,904 sf of common open space that would support open lawn/recreation play areas, play equipment, tot lot, picnic tables, fitness stations, barbecues, and benches. Additional smaller landscaped common open space areas would also be provided throughout, including dog stations and an emergency access point along North 14th Avenue. Parking would be accommodated through the provision of private spaces in the attached two-car garages (for a total of 128 spaces) and an additional

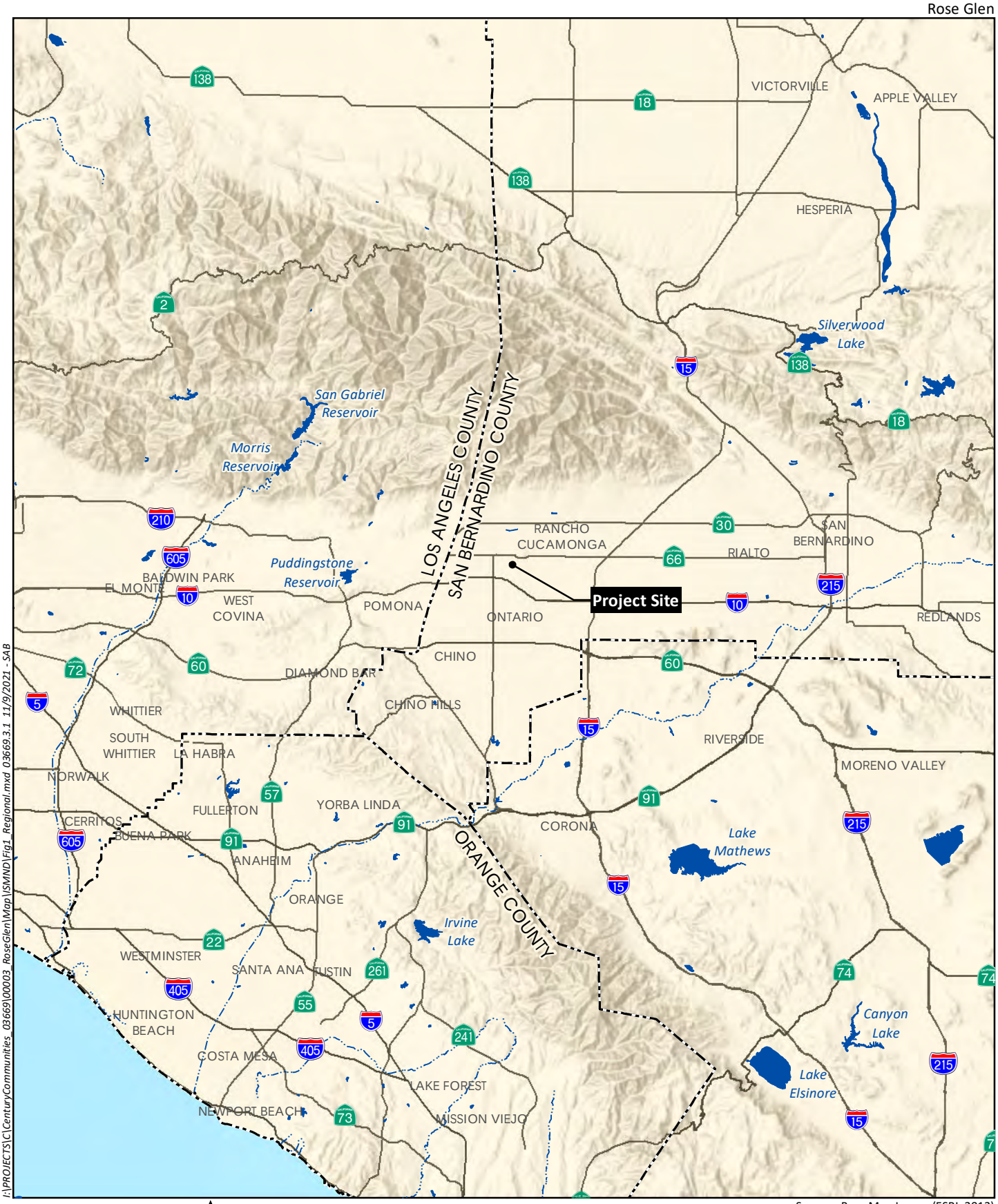
0.5 space per unit (49 spaces) guest spaces that would be distributed through the project site. The existing ten-foot block wall that separates the project site from the residential land uses to the east would remain and be painted. Additionally, a minimum 6-foot-high sound wall is proposed along the westerly side of the project and the existing walls along the project's eastern and southern perimeter would remain.

Site access would be via a gated pass-through entry lane for residences with a separate lane for guests along Arrow Highway. A secondary gated emergency access only would be provided along North 14th Avenue. A network of internal private streets with 24-foot right of way would provide access to the individual homes. Internal streets would be privately owned and maintained. Pedestrian connectivity is a major goal within the project and pedestrian connections are provided through sidewalks on both sides of all streets and within the recreation areas. The project would also include stamped pavers throughout the drive aisles to demarcate walking paths in areas where there are no sidewalks. Baluster lighting would be provided throughout the site, promoting pedestrian connectivity by enhancing safety and navigation.

Utility infrastructure improvements and connections would also occur to accommodate site development. An existing six-inch water line on site would be removed and realigned with an eight-inch water line lateral connection to East Arrow Highway. If fire flow requirements are not met, a secondary lateral connection to the existing 8-inch water line in the adjacent property may be needed to complete the internal loop system. Wastewater discharges from the site would occur through internal sewer mains connecting to an existing eight-inch sewer line in North 14th Avenue. An existing eight-inch sewer line would be abandoned and a new eight-inch sewer line would be rerouted through the site. The project would decrease the area of impervious surfaces in relation to the existing site conditions and would incorporate Best Management Practices (BMPs) for the collection and treatment of storm water as part of an overall low-impact development (LID) concept. The on-site storm system would convey runoff through the street curbs and two catch basins to a 3,300-sf underground vault system to infiltrate on site**.** Any high flows would be conveyed through a new off-site proposed system from the site through North 14th Avenue and 9th Street and connect to an existing San Bernardino County Flood Control District structure at Bodenhamer Street. Additionally, the existing overhead electrical lines that traverse the property would be undergrounded and other local connections would occur to municipal infrastructure.

Demolition of the existing structures would begin in January 2023, with site preparation and grading occurring shortly thereafter. In all, 5,000 sf of structures would be demolished along with 213,444 sf of asphalt that would be hauled from the site. In addition, 2,727 cubic yards of imported soil would be hauled to the site. Construction of the homes is slated to begin in July 2023 with construction completed in December 2024. The project also would include the geotechnical recommendations that are designed to meet the standards set forth in the California Building Code (CBC) as project design features.

To accommodate the residences, the project would require a General Plan land use amendment and a zone change from the current Light Industrial/Business Park designation and Light Industrial Zoning to Specific Plan.



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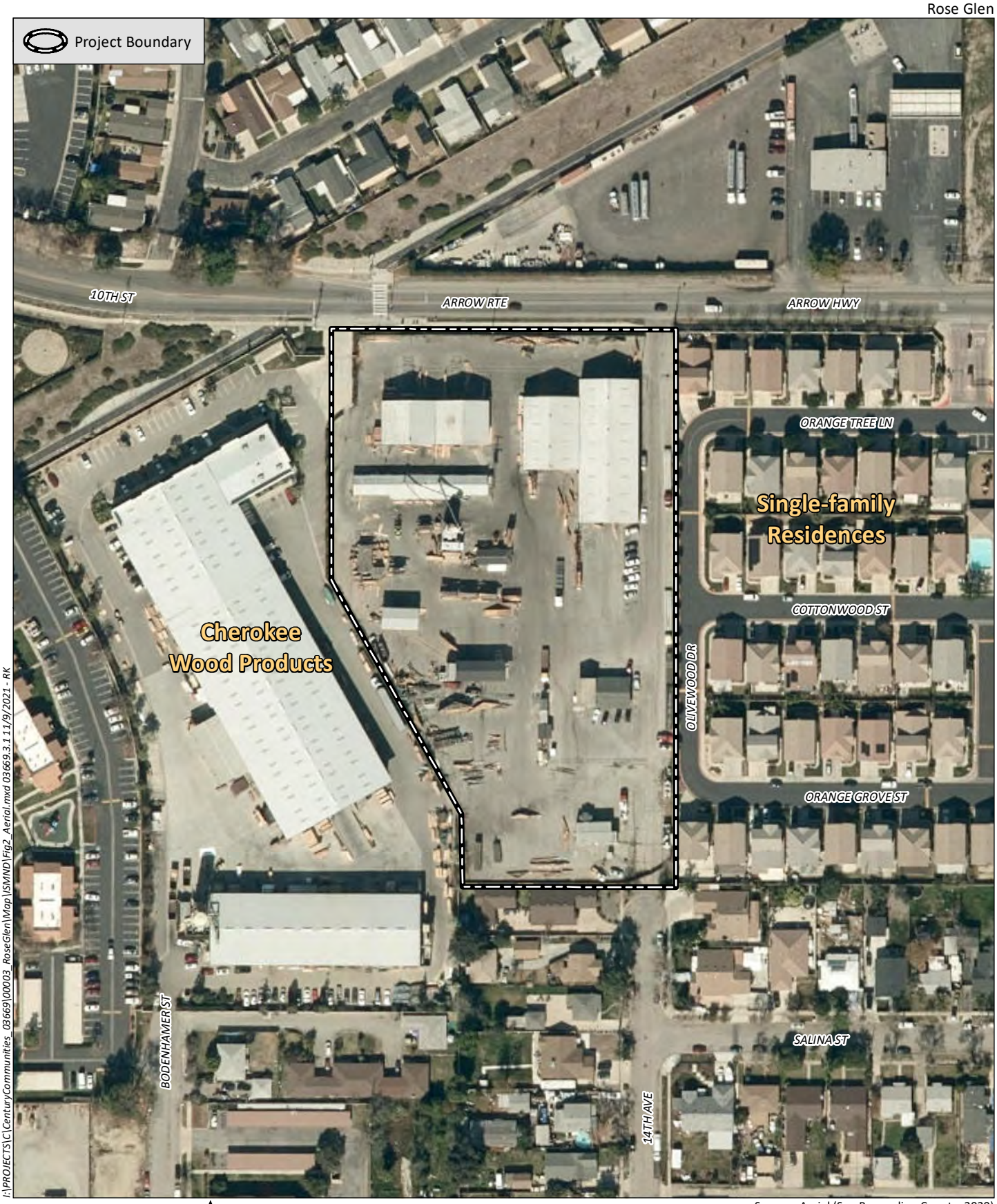
Regional Location

Figure 1



Source: Aerial (San Bernardino County, 2020)

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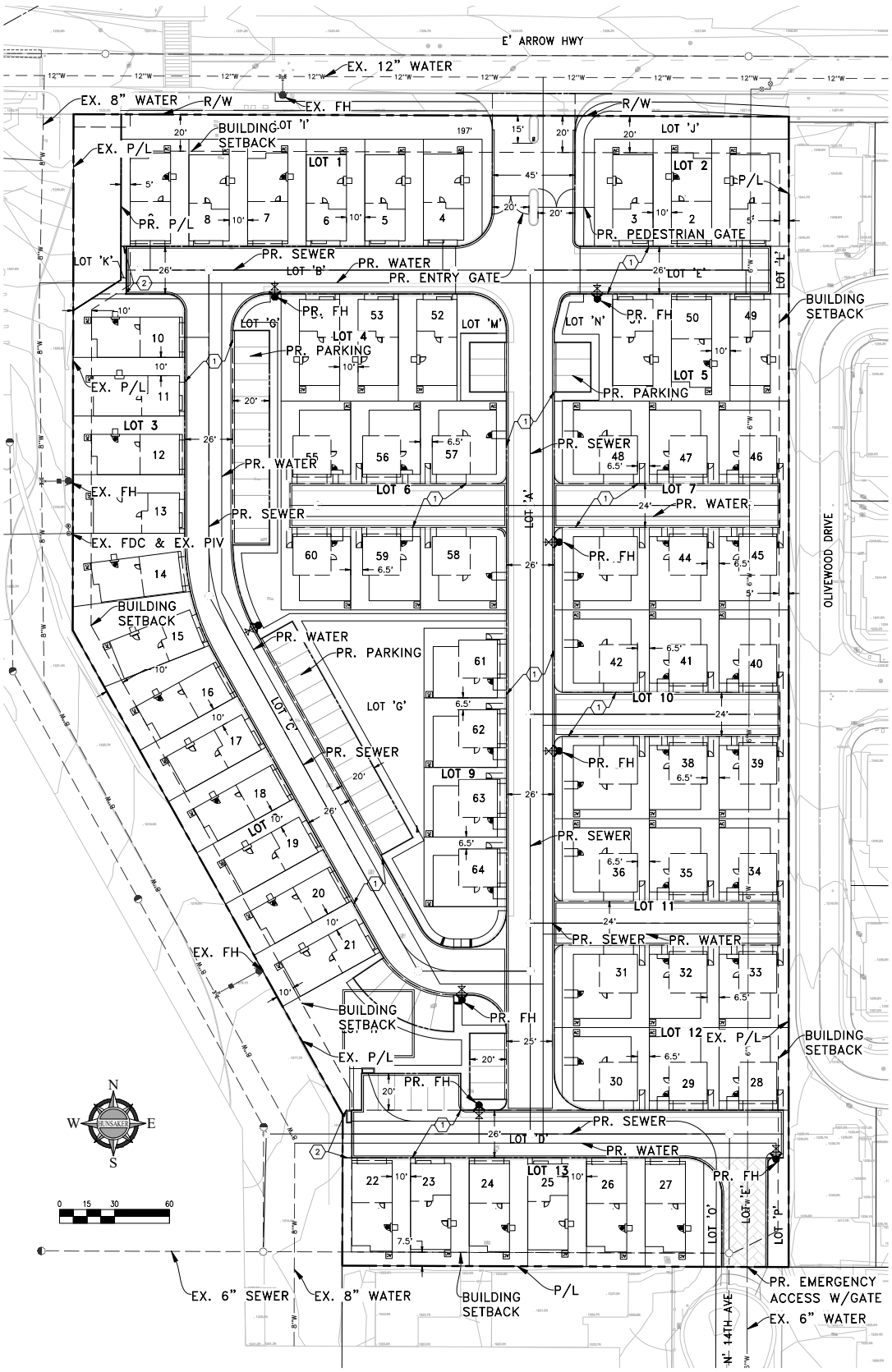
Project Vicinity (Aerial Photograph)

Figure 2



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Source: Hunsaker 2022

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Site Plan

Figure 3

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

The Santa Ana Regional Water Quality Control Board (SARWQCB) is responsible for approving the Notice of Intent and a Storm Water Pollution Prevention Plan (SWPPP) in accordance with the requirements of the most recent National Pollutant Discharge Elimination System (NPDES) General Construction Activities Permit.

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1? If so, has this consultation begun?

The City sent letters to 11 tribes (Gabrieleno Band of Mission Indians - Kizh Nation, Gabrieleno/Tongva San Gabriel Band of Mission Indians, Gabrielino Tongva Indians of California Tribal Council, Gabrielino/Tongva Nation, Gabrielino-Tongva Tribe, Morongo Band of Mission Indians, Quechan Tribe of the Fort Yuma Reservation, San Manuel Band of Mission Indians, Santa Rosa Band of Mission Indians, Serrano Nation of Mission Indians, and Soboba Band of Luiseño Indians) on January 25, 2022**,** initiating Assembly Bill (AB) 52 and Senate Bill (SB) 18 consultation.

1.2 Environmental Factors Potentially Affected

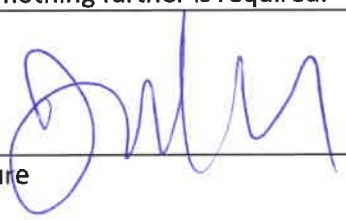
The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" or "Less than Significant with Mitigation Incorporated" as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Agriculture/Forestry Resources	☐ Air Quality
☐ Biological Resources	■ Cultural Resources	☐ Energy
☐ Geology/Soils	☐ Greenhouse Gas Emissions	☐ Hazards/Hazardous Materials
☐ Hydrology/Water Quality	■ Land Use/Planning	☐ Mineral Resources
■ Noise and Vibration	☐ Population/Housing	☐ Public Services
☐ Recreation	☐ Transportation/Traffic	■ Tribal Cultural Resources
☐ Utilities/Service Systems	☐ Wildfire	■ Mandatory Findings of Significance

1.3 Determination

On the basis of this initial evaluation:

☐	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
■	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
☐	I find that the proposed project MAY have a significant effect on the environment, and an environmental impact report is required.
☐	I find that the proposed project MAY have a "potential impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect I) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
☐	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Signature

June 27, 2022

Date

Joshua Winter, Senior Planner

Printed Name

For

2.0 ENVIRONMENTAL INITIAL STUDY CHECKLIST

The lead agency has defined the column headings in the environmental checklist as follows:

A. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.

B. "Less Than Significant with Mitigation Incorporated" applies where the inclusion of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." All mitigation measures are described, including a brief explanation of how the measures reduce the effect to a less than significant level. Mitigation measures from earlier analyses may be cross-referenced.

C. "Less Than Significant Impact" applies where the project does not create an impact that exceeds a stated significance threshold.

D. "No Impact" applies where a project does not create an impact in that category. "No Impact" answers do not require an explanation if they are adequately supported by the information sources cited by the lead agency which show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project specific screening analysis).

The explanation of each issue identifies the significance criteria or threshold used to evaluate each question; and the mitigation measure identified, if any, to reduce the impact to less than significance. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration [CEQA Guidelines Section 15063(c)(3)(D)]. Where appropriate, the discussion identifies the following:

a) Earlier Analyses Used. Identifies where earlier analyses are available for review.

b) Impacts Adequately Addressed. Identifies which effects from the checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and states whether such effects were addressed by mitigation measures based on the earlier analysis.

c) Mitigation Measures. For effects that are "Less Than Significant with Mitigation Incorporated," describes the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

I. Aesthetics

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

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

No Impact. A scenic vista is generally defined as a viewpoint that provides expansive views of a highly valued landscape for the benefit of the general public. Scenic vistas are commonly identified in local planning documents but can also include public viewpoints not identified within an adopted regulatory document. There are no scenic views or vistas located within the City that are designated by the City's General Plan. The project site is located in the southeastern portion of the City and according to the City's General Plan EIR, views of natural visual resources from the southern portion of the City are limited and partially obstructed due to their distance from the northern mountain range, lower topography, and built-out nature of the southern area, as well as the density and orientation of the existing buildings and structures (City 2015b). However, it further notes that projects should be evaluated in relation to potential impacts associated with increased heights. The current zoning, LI, allows for structures to extend to a height of 40 feet; the proposed residences would not exceed a height of 35 feet; therefore, the project would not introduce new structures of greater height than currently allowed that could potentially obstruct distant mountain views. Regardless, the project site is located in a developed area in the southern portion of the City and is not located within the vicinity of a scenic vista. Impacts to a scenic vista would not occur.

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

No Impact. There are no designated or eligible state scenic highways located within the City (California Department of Transportation [Caltrans] 2021). The nearest officially designated state scenic highway is a segment of State Route (SR) 91 near the City of Anaheim, approximately 18 miles southwest of the project site. The nearest eligible state scenic highway is a segment of SR 142 near Chino Hills State Park, approximately 10 miles southwest of the project site. Therefore, the project would not substantially damage scenic resources within a state scenic highway. No impacts would occur.

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

No Impact. Public Resources Code 21071 defines the term "urbanized area" for the purpose of CEQA to mean an incorporated city that has a population of at least 100,000 persons or has a population of less than 100,000 persons if the population of that city and not more than two contiguous incorporated cities combined equals at least 100,000 persons. U.S. Department of Commerce Bureau of the Census (U.S. Census Bureau) data from 2021 indicates that the City has a population of 79,040 and the adjacent City of Rancho Cucamonga has a population of 174,453 (U.S. Census Bureau 2021). The project site is within an urbanized area and therefore, is evaluated relative to applicable zoning and other regulations governing scenic quality.

The project site is currently developed as a lumber yard, and there are no valuable public views at or near the project site. Surrounding land uses include a truck stop and gas station to the north, residential land uses to the south and east, and a retail lumber sales warehouse to the west. Implementation of the project would include the construction of 64 two-story single family detached residential homes that would be designed in the Italianate/Spanish Colonial/Santa Barbara architectural style and would complement the visual character of the surrounding residential neighborhoods to the south and east. The project also includes landscaping and 8,904 sf of common open space, including open lawn/recreation play areas, tot lot, play equipment, fitness stations, picnic tables, barbecues, and benches. Additionally, the area provided for emergency access along North 14th Avenue would also be landscaped. These landscaped features would enhance the visual quality of the site over the existing light industrial conditions associated with the lumber yard.

The project site is currently zoned as LI and would require a zone change for residential land uses. However, the LI zone is not intended for the protection of scenic resources, nor are there any other land use regulations that govern scenic quality that apply to the project site (i.e., scenic corridor, scenic overlay zone, etc.).

Overall, the project would enhance the current environment by unifying land uses to the south and east and providing ornamental streetscaping and landscaping along the project frontage. The project's streetscape would include walkways and streetlights as well.

Therefore, the project would not degrade the existing visual character or quality of public views of the site and its surroundings. No impact would occur.

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

Less than Significant Impact. There are two primary sources of light: light emanating from building interiors that passes through windows and light from exterior sources (e.g., street lighting, parking lot lighting, building illumination, security lighting, and landscape lighting). The introduction of light can be a nuisance by affecting adjacent areas and diminishing the view of the clear sky depending on the location of the light sources and its proximity to nearby light-sensitive areas.

The project site is located in an area that is developed primarily with residential and commercial/light industrial uses. The existing light sources in the project area include building lights, streetlights,

navigational lighting along pedestrian walkways (baluster lights), and security lights. The residential lighting introduced with the project would be similar to the existing residential lighting in surrounding neighborhoods.

Presently, there are multiple security lights located on the project site as part of the lumber yard. The proposed project would introduce residential lighting, such as security or ambiance lighting as well as light casted from the interior of the homes. Additional new project-related light sources include street, entry way, common area/recreational space lighting and light from traffic. This introduction of new sources of light would be different in relation to existing conditions; however, proposed lighting would be required to conform to the CBC, as well as the City's Municipal Code (UMC) Chapter 17.14, Outdoor Lighting, which establishes minimum requirements for outdoor lighting in order to reduce light trespass and glare and protect the health, property, and well-being of residents and visitors. Such adherence would require that any outdoor lighting over 750 lumens would be shielded so that no direct light falls outside the property line or public right-of-way and would require a zero measurable foot-candle power at the property line. Additionally, the proposed lighting would be similar to the existing lighting in the adjacent residential neighborhoods and would not introduce any new and unique sources of light that would be substantial in relation to the existing lighting characteristics of the project area. Therefore, due to the type of lighting and with the required regulatory compliance the project would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area impacts related to lighting. Impacts would be less than significant.

Glare impacts can occur because of artificial light or sunlight reflecting off a surface. Glare can create discomfort or present safety concerns. The project involves the construction of single-family residences that would primarily consist of architectural elements such as stucco facades, wood, and brick that are not sources of glare. Glass would be used in small amounts and would be limited to windows and doors, typical of residential construction; no other highly reflective surfaces would be provided. The extent and surface area of glass on the homes would not be at a scale to generate adverse glare effects. Impacts would be less than significant.

II. Agriculture and Forestry Resources

Would the project:		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	■
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	■
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section l 2220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	■
d)	Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	■

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non- forest use?	☐	☐	☐	■

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

No Impact. The project is in an urbanized area where there is no farmland or agricultural resources. According to the California Department of Conservation's (DOC) San Bernardino County Important Farmland 2016 map, the project site and surrounding area is classified as "Urban and Built-Up Land," which is land occupied by structures with a building density of at least 1 unit to 1.5 acres, or approximately 6 structures to a 10-acre parcel and does not contain agricultural uses or areas designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (DOC 2016). Further, according to the General Plan EIR, there is no land designated as Farmland of Statewide Importance within the City's jurisdiction and there is only 10 acres of Prime Farmland and 17 acres of Unique Farmland, that are located in the western and northeastern portion of the City (City 2015b). As such, the proposed project would not result in the conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use. No impacts would occur.

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

No Impact. The Williamson Act applies to parcels within an established agricultural preserve consisting of at least 20 acres of Prime Farmland or at least 40 acres of land not designated as Prime Farmland. The purpose of the act is to preserve agriculture and open space lands by discouraging premature and unnecessary conversion to urban uses. The Williamson Act enables local governments to enter into contracts with private landowners for the purpose of restricting specific parcels of land for use as agricultural or related open space.

The project site is not zoned for agricultural use. Additionally, it is not within an established agricultural preserve consisting of at least 20 acres of Prime Farmland or at least 40 acres of land not designated as Prime Farmland, so it would not conflict with a Williamson Act contract. The project area is classified as "Urban and Built-Up Land" by the DOC, where the Williamson Act does not enforce development restrictions (DOC 2016). Therefore, the proposed project would not conflict with existing zoning for agricultural use or a Williamson Act contract. No impacts would occur.

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

No Impact. Forest land is land that can support ten-percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public

benefits. Riparian habitat can be considered forest land if it meets these criteria. The project site is within an urban setting and supports a lumber yard. According to the General Plan EIR there are no existing forest lands within the City and there are small patches of riparian habitat located near the San Antonio and Cucamonga Creek drainages, neither of which is within the vicinity of the project site (City 2015b).

Timberland is land, other than land owned by the Federal government and designated by the California Department of Forestry and Fire (CAL FIRE) Board of Forestry as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees. There are no existing timberlands within the City. Additionally, a timberland production zone or timberland preserve zone is an area that is zoned and devoted to and used for growing and harvesting timber, or for growing and harvesting timber and compatible uses. There is no timberland-related zoning within the City. No impacts would occur.

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

No Impact. The proposed project is in an urbanized area where there are no forestry resources. The project location is designated as "Urban and Built-Up Land" by the DOC (DOC 2016). Please see item II c) above. No impact would occur.

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

No Impact. Implementation of the proposed project would have no impact on agriculture and/or forestry resources. The project location is classified as "Urban and Built-Up Land," which does not contain any agricultural uses or areas designated Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (DOC 2016). Furthermore, there are no Williamson Act contracts or forest lands in the project area. Implementation of the proposed project would not involve changes to the existing environment or result in the conversion of Farmland to non-agricultural use or forest land to non-forest use. Please see items II a) through II d). No impact would occur.

III. Air Quality

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

HELIX Environmental Planning (HELIX) prepared an Air Quality and Greenhouse Gas Emissions Technical Report for the project in November 2021 (HELIX 2021b), which is included in its entirety as Appendix A of this IS/MND, the results of which are summarized below.

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

No Impact. The Southern California Association of Governments (SCAG) is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties, and addresses regional issues relating to transportation, economy, community development, and environment. With regard to air quality planning, SCAG has prepared the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), a long-range transportation plan that uses growth forecasts to project trends out over a 20-year period to identify regional transportation strategies to address mobility needs. These growth forecasts form the basis for the land use and transportation control portions of the Air Quality Management Plan (AQMP). These documents are utilized in the preparation of the air quality forecasts and consistency analysis included in the AQMP. Both the RTP/SCS and AQMP are based, in part, on projections originating with County and City General Plans.[1]

The project site is designated as LI-BP in the General Plan and is zoned as LI; the project would require a General Plan Amendment and zone change to Specific Plan.

The City has recognized the potential for the project site to accommodate 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 Assessment (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).[2]

Specifically, the RHNA for the 2021-2029 planning period assigned Upland a new housing need of 5,686 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 AQMP. 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 AQMP, which is crafted to bring the basin into attainment for all criteria pollutants. Additionally, as detailed in item III b), 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 AQMP. No impact would occur.

[1] SCAG serves as the federally designated metropolitan planning organization for the southern California region.

[2] The City's General Plan Housing Element, prepared in September 2021 is undergoing the approval and adoption process. As part of the Housing Element, the City is required to plan for new housing to accommodate its share of regional needs. The RHNA is the process established in State law by which housing needs are determined.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?

Less than Significant Impact. By its very nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development within the South Coast Air Basin (SCAB), the air basin in which the project is located. The region is a federal and/or state nonattainment area for ozone, particulate matter less than 10 microns in diameter (PM_{10}) and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$). In accordance with CEQA Guidelines Section 15064(h)(3), the regulating agency, the South Coast Air Quality Management District's (SCAQMD) approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and State Clean Air Acts. If a project conflicts with the AQMP, which is intended to bring the SCAB into attainment for all criteria pollutants, that project can be considered cumulatively considerable. Additionally, if the mass regional emissions calculated for a project exceed the applicable SCAQMD daily significance thresholds that are designed to assist the region in attaining the applicable state and national ambient air quality standards, that project can be considered cumulatively considerable. As discussed in item III a), above, the project would not conflict with or obstruct implementation of the AQMP.

The project would generate criteria pollutants and precursors in the short-term during construction and the long-term during operation. To determine whether a project would result in cumulatively considerable 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 SCAQMD, as discussed for the construction and operational phases below.

Construction

The project's construction emissions were estimated using the CalEEMod model. Additional details of phasing, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

The results of the calculations for project construction are shown in Table 1, *Unmitigated Daily Construction Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the SCAQMD thresholds.

Table 1
DAILY CONSTRUCTION EMISSIONS

Phase	ROG (lbs/day)	NO_X (lbs/day)	CO (lbs/day)	SO_X (lbs/day)	PM_{10} (lbs/day)	$PM_{2.5}$ (lbs/day)
Demolition	2.33	21.70	20.16	0.04	1.34	1.00
Site Preparation	2.73	27.57	18.80	0.04	10.31	5.77
Grading	1.80	19.77	15.74	0.04	4.43	2.39
Underground Utilities	0.48	4.61	6.92	0.01	0.32	0.23
Paving	1.16	8.84	12.81	0.02	0.66	0.46
Building Construction	1.86	15.19	18.74	0.04	1.62	0.91
Architectural Coatings	5.10	1.25	2.22	<0.01	0.22	0.10
Maximum Daily Emissions[1,2]	**6.84**	**27.57**	**20.72**	**0.04**	**10.31**	**5.77**
SCAQMD Thresholds	*75*	*100*	*550*	*150*	*150*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod; USEPA AP-42 (output data is provided in Appendix A)
[1] Maximum daily emissions of ROG and CO would occur during concurrent building construction and architectural coatings.
[2] Totals may not sum due to rounding.
lbs/day = pounds per day; ROG = reactive organic gas; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 1, project emissions during construction would not exceed the daily thresholds set by the SCAQMD.

Operation

The project's operational emissions were estimated using the CalEEMod model and model outputs are provided in Appendix A. Table 2, *Daily Operational Emissions*, presents the summary of operational emissions for the project. The data are presented as the maximum anticipated daily emissions for comparison with the SCAQMD thresholds.

Table 2
DAILY OPERATIONAL EMISSIONS

Category	ROG (lbs/day)	NO_X (lbs/day)	CO (lbs/day)	SO_X (lbs/day)	PM_{10} (lbs/day)	$PM_{2.5}$ (lbs/day)
Area	1.59	0.06	5.36	<0.01	0.03	0.03
Energy	0.04	0.35	0.15	<0.01	0.03	0.03
Mobile	1.50	2.02	14.63	0.03	3.46	0.94
Maximum Daily Emissions[1]	**3.13**	**2.43**	**20.14**	**0.04**	**3.52**	**1.00**
SCAQMD Thresholds	*55*	*55*	*550*	*150*	*150*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
lbs/day = pounds per day; ROG = reactive organic gas; NO_X = nitrogen oxides; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 2, project emissions during operation would not exceed the daily thresholds set by the SCAQMD.

As demonstrated in Tables 1 and 2, construction and operation of the project would not result in criteria pollutant and precursor pollutant emissions that would exceed the SCAQMD significance thresholds; impacts would be less than significant.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact. Sensitive populations (i.e., children, senior citizens, and acutely or chronically ill people) are more susceptible to the effects of air pollution than are the general population. Land uses that are considered sensitive receptors typically include residences, schools, playgrounds, childcare centers, hospitals, convalescent homes, and retirement homes. The closest existing sensitive receptors to the project site are the single-family residences located adjacent to the project's southern and eastern boundaries. An analysis of the project's potential to expose sensitive receptors to pollutants during construction and operation is provided below

Construction

Criteria Pollutants

The localized effects from the on-site portion of daily construction emissions were evaluated at sensitive receptor locations potentially impacted by the project according to the SCAQMD's local significance threshold (LST) method.[3] The proposed project is within source receptor area (SRA) 32, Northwest San Bernardino Valley. Consistent with the LST guidelines, when quantifying mass emissions for localized analysis, only emissions that occur on site are considered. Emissions related to off-site delivery/haul truck activity and construction worker trips are not considered in the evaluation of construction-related localized impacts, as these do not contribute to emissions generated on a project site. The closest sensitive receptors are residences adjacent to the southern and eastern boundaries of the project site. Table 3, *Maximum Localized Daily Construction Emissions*, shows the localized construction emissions.

[3] SCAQMD has developed a LST methodology and mass rate look-up table by source receptor area (SRA) that can be used by public agencies to determine whether a project may generate significant adverse localized air quality impacts. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard; they are developed based on the ambient concentrations of that pollutant for each SRA (SCAQMD 2009).

Table 3
MAXIMUM LOCALIZED DAILY CONSTRUCTION EMISSIONS

Activity	NO_X (lbs/day)	CO (lbs/day)	PM_{10} (lbs/day)	$PM_{2.5}$ (lbs/day)
Demolition	21.48	19.64	1.15	0.95
Site Preparation	27.52	18.24	10.11	5.71
Grading	17.94	14.75	3.97	2.26
Underground Utilities	4.59	6.67	0.23	0.21
Paving	8.79	12.19	0.44	0.40
Building Construction	14.38	16.24	0.70	0.66
Architectural Coatings	1.22	1.81	0.06	0.06
Maximum Daily Emissions	**27.52**	**19.64**	**10.11**	**5.71**
SCAQMD LST Thresholds	*270*	*2,193*	*16*	*9*
Exceed LST?	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
lbs/day = pounds per day; NO_X = nitrogen oxides; CO = carbon monoxide; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 3, localized emissions for all criteria pollutants would remain below their respective SCAQMD LSTs. Therefore, construction of the project would not result in exposure of sensitive receptors to substantial localized concentrations of criteria pollutants and precursors.

Toxic Air Contaminants

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 toxic air contaminants (TAC) and diesel particulate matter (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 (California Air Resources Board [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 quantity 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) 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 (Office of Environmental Health Hazard Assessment [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.

Operational Activities

CO Hotspots

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.

CARB 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 Traffic Impact Analysis (TIA) (Kimley-Horn 2021) evaluated whether there would be a change in the LOS at the intersections affected by the proposed project. In accordance with the Transportation Project-Level Carbon Monoxide Protocol, CO hot spots are typically evaluated when: (a) the LOS of an intersection decreases to a LOS E or worse because of the project; (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 (Caltrans 1998).

According to the TIA, all of the analyzed intersections are forecast to operate at LOS C or better in the project opening year condition, without implementation of the project. Implementation of the project would not result in the LOS of any of the analyzed intersections degrading (Kimley-Horn 2021). Therefore, consistent with the CO Protocol, operation of the project would not result in exposure of sensitive receptors to substantial localized CO concentrations.

New Sensitive Receptors

As a residential development, the project would site new sensitive receptors. The CARB siting recommendations within the Air Quality and Land Use Handbook suggest a detailed health risk assessment should be conducted for proposed sensitive receptors within 1,000 feet of a warehouse distribution center, within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater), 50 feet of a typical gas dispensing facilities or within 300 feet of a dry cleaning facility that uses perchloroethylene among other siting recommendations (CARB 2005). There are no facilities of this type within 1,000 feet of the project site. In addition, the closest high-volume roadway (more than 10,000 average daily traffic [ADT]) would be Interstate 10, approximately 0.9 miles southwest of the project site. Therefore, future project residents would not be exposed to substantial concentrations of TACs.

Implementation of the project would not expose sensitive receptors to substantial pollutant concentrations. Impacts would be less than significant.

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

Less than Significant 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 volatile organic compounds 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. Impacts would be less than significant.

IV. Biological Resources

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

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	■

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

No Impact. The project site is completely developed as a lumber yard, and almost all areas of the site are paved. The only vegetation located on the project site is a small strip of ornamental, landscaped grass along East Arrow Highway, which does not serve as suitable habitat for candidate, sensitive, or special status species. Also, there are no trees on site that could serve as nesting habitat for sensitive raptors protected under the Migratory Bird Treaty Act (MBTA) or California Fish and Game Code. No impacts to candidate, sensitive, or special status species would occur.

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

No Impact. According to the General Plan EIR, within the City, riparian habitat and Riversidean alluvial fan sage scrub that is considered a sensitive natural community, occurs along the San Antonio and Cucamonga drainages, the closest of which is the Cucamonga Creek, greater than a half mile east of the project site (City 2015b) The project site is completely developed as a lumber yard, and all areas on the site, other than one small strip of landscaped grass, are paved. As such, the site does not support sensitive or riparian habitat. No impacts would occur.

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

No Impact. According to the General Plan EIR, although dry most of the year, some wetland habitat is present in San Antonio and Cucamonga Creeks. Additionally, small patches of wetlands are associated with flood control facilities, aggregate mining operations, agricultural areas, and earthen channels (City 2015b). The project site does not support any of these features. The project site is completely developed as an operating lumber yard, and all areas on the site, other than one small strip of landscaped grass, are paved. No federally protected wetlands are present within or adjacent to the project site. No impacts would occur.

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

No Impact. Wildlife corridors are areas that allow wildlife room to roam for access to food, territory, and mating. A broad range of habitat is necessary for the dispersal of plants and animals to ensure the viability of such corridors. The project site is located within an urbanized area that does not contain any of the elements of a wildlife corridor. The project site is currently developed as a lumber yard and is completely paved with the exception of an area of ornamental landscaping. The surrounding area is also developed with a variety of urban uses and supports infrastructure such as multi lane roadways that deter the safe movement of wildlife. Further, the General Plan EIR notes that due to the high degree of urbanization within City limits, no significant wildlife corridors are present within the City limits or sphere of influence (City 2015b). As such, the proposed project would not interfere with the movement of fish or wildlife and would not affect wildlife corridors. No impact would occur.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No Impact. The proposed project would not involve the removal of trees from the site, and therefore would not conflict with a tree preservation policy or ordinance. As discussed above, the project site is developed as a lumber yard and is fully paved, with the exception of a small strip of landscaped grass along East Arrow Highway. The project site does not include bodies of water, wetlands, or vegetation that would support candidate, sensitive, or special status species. Implementation of the project would not adversely impact biological resources, and therefore would not conflict with local policies or ordinances protecting biological resources. No impact would occur.

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

No Impact. The project site is completely developed as a lumber yard and is in urban area. The project site does not include bodies of water, wetlands, or vegetation that would support candidate, sensitive, or special status species. Additionally, as discussed in the City's General Plan EIR, the City is not located within jurisdiction of a Habitat Conservation Plan or Natural Community Conservation Plan (City 2015b). Therefore, the project would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. No Impact would occur.

V. Cultural Resources

Would the project:		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	■	☐
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	■	☐	☐

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	■	☐	☐

The discussion below is based on the Cultural Resources Assessment (HELIX 2022) and Historic Resources Evaluation Report (HRER) (HELIX 2021c prepared for the project, included in Appendix B of this IS/MND).

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

Less Than Significant Impact. The property consists of a lumber yard and warehouse constructed in 1956; all structures would be demolished to accommodate the project. To determine the historic context and any potential significance with the existing structures, HELIX prepared the intensive-level HRER to evaluate the property in accordance with applicable eligibility criteria. The HRER included a field investigation, records search, literature review, and archival research, as discussed below.

Field Investigation

In September 2021, HELIX staff conducted a field investigation that consisted of examination and photography of the exterior of the subject property within the lumber yard complex. Field notes included resource descriptions, current conditions, alterations/integrity, and character-defining features. The property contains 10 buildings and one structure: one planing mill, seven sheds, two offices, and an incinerator. Although the planing mill, six of the sheds, one of the offices, and the incinerator were constructed in 1956, the Lumber Finish and Storage Shed, Building C, located on the northeast corner of the lot, is the primary subject of this study. The remaining structures were omitted from the investigation because two structures, one of the sheds and one of the offices, were constructed in 2003 and are considered modern additions. The six other structures within the Project site are considered ancillary structures to the Lumber Finish and Storage Shed. As such, the field survey focused on one historic building. The conclusion of the field investigation is that the lumber finish and storage shed exhibits typical rather than distinctive characteristics of its building type and period. The shed does not reflect outstanding or distinctive design, the work of a master, method of construction, or possess high artistic value.

Records Search

HELIX contacted South Central Coastal Information Center (SCCIC) staff to request a record search of the California Historical Resources Information System from the SCCIC on September 1, 2021. The records search covered a half-mile radius around the proposed project area and included the identification of previously recorded cultural resources (archaeological and historical resources), locations and citations for previous cultural resources studies, and a review of the State Office of Historic Preservation Historic Resources Inventory. The SCCIC record search results identified 12 previous cultural resource studies within the record search limits, with one study intersecting a portion of the project site. The SCCIC record search contained 106 previously recorded cultural resources within a half-mile radius of the project site; however, none of the resources are recorded within the project site. With the exception of

a single prehistoric lithic scatter, the recorded resources within a half-mile radius of the project site consist of historic buildings.

Nine historic districts were established by the City of Upland between 2003 and 2004: Arrow/Laurel Bungalow District, Citrus & Transportation District, Civic Center East District, Euclid Avenue District, Old Magnolia District, Old Town District, Pleasant View District, Stowell, and Victorian Row. However, the Rose Glen Residential Project is not located within the boundaries of any of the nine City of Upland established historic districts. In addition, HELIX conducted a search of the Built Environment Resource Directory. The results of the record search indicated that the structures located within the boundaries of the project site are not included in the California Built Environment Resources Directory/State Historic Resources Inventory, nor are they included on a register or inventory of designated or eligible landmarks in the City of Upland.

Literature Review and Archival Research

A review of previous historic resources studies and evaluations and collections located at Cooper Regional History Museum, Upland Heritage, the Upland Public Library, the City of Upland, as well as the David Rumsey Map Collection, and online sources provided no indication that the project site is a historic resource pursuant to §15064.5.

Evaluation

As a result of the information provided through the field investigation, records search, literature review, and archival research the project site was evaluated in relation to the National Register of Historic Places and California Register of Historical Resources significance criteria. It was determined that the site does not meet any of the criteria to be historically significant, and no further evaluation is required.

As a result of this intensive-level evaluation, the project site does not contain structures or features that appear eligible for federal, state, or local listing. In addition, it is not included on the State Built Environment Resources Directory or the City's register of designated properties; it is also not a contributor to one of the City's designated historic districts. Therefore, the property does not qualify as a historical resource under CEQA. A less than significant impact would occur.

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

Less than Significant Impact with Mitigation Incorporated. As noted in item V a), part of the research completed by the Cultural Resources Assessment, a records search request was submitted to the SCCIC on September 1, 2021. The SCCIC record search contained 106 previously recorded cultural resources within a half-mile radius of the project site; however, none of the resources are recorded within the project site. With the exception of a prehistoric lithic scatter the resources recorded within a half-mile of the project site are historic buildings. A Sacred Lands File search for the project area of potential effect (APE) completed by the Native American Heritage Commission (NAHC) yielded negative results. Additionally, HELIX conducted an outreach program, as recommended by the NAHC, by sending letters on October 29, 2021 to all contacts listed by the NAHC to request any information that may pertain to cultural or tribal cultural resources sensitivity within the project site or vicinity. Three responses have been received to date. The Gabrieleño Band of Mission Indians–Kizh Nation responded on November 9, 2021. The Tribe did not identify any known tribal cultural resources or sacred lands within their response; however, the Tribe may wish to submit information regarding tribal resources during

consultation with the lead agency. The Quechan Tribe of the Fort Yuma Reservation responded on November 3, 2021, that they had no comments for the proposed project and will defer to the Tribes local to the project area. The Morongo Band of Mission Indians responded on December 27, 2021, that the proposed project is not located within the boundaries of the ancestral territory and traditional use area of the Cahuilla and Serrano people of the Morongo Band of Mission Indians and encouraged reaching out to tribes more closely associated with the lands on which the project is located. If any additional responses are received, they will be forwarded to City staff. Native American correspondence is included as Appendix C (Confidential Appendices, bound separately) of the Cultural Resources Assessment (HELIX 2022). City staff initiated consultation with interested tribes on January 27, 2022 under AB 52 and SB 18, as discussed in Section 18, *Tribal Cultural Resources*, of this document.

While no significant cultural resources have been identified within the project area, there are numerous and important cultural resources in the project vicinity. Additionally, the existing setting of the project area is currently developed and covered by fill material which prevents the visibility of the original ground surface. As such, HELIX did not conduct a pedestrian survey of the site, due to the lack of exposed original ground surface. However, the archival research suggests the project site may be sensitive for historic-era resources related to the Pacific Electric Rail Line, located along its northern boundary. Geologic indicators, such as the perennial wash in proximity to the project area, indicate a potential sensitivity to prehistoric cultural and tribal cultural resources. Additionally, the project site is located within alluvial soils, where there is a potential for encountering buried cultural (historic and archaeological) and tribal cultural resources.

Although there are no existing cultural resources within the project site, there is a potential of encountering buried cultural resources during project related construction. These potential impacts could result in a significant impact to archaeological or tribal cultural resources. An archaeological and Native American monitoring program would be implemented to reduce these potential impacts to a less than significant level by ensuring subsurface resources are identified and treated according to local and state requirements.

Mitigation measures (MM) addressing these potential impacts to tribal cultural resources are discussed in Section 18 of this document. Mitigation measures CUL-1 through CUL-6 are implemented to reduce potential impacts to archaeological resources; these measures provide protocol the monitoring program and for the event in which buried cultural resources are encountered within the project site. With the incorporation of mitigation measures CUL-1 through CUL-6, potential impacts to cultural resources would be reduced to less than significant.

MM CUL-1 **Retain a Qualified Archaeologist.** The Project Applicant shall retain the services of a qualified archaeologist meeting the Secretary of Interior Professional Qualifications Standards to oversee the archaeological monitoring program. An archaeological monitor would be present on-site during the construction phases that involve ground-disturbing activities, which may include, but are not limited to, pavement removal, pot-holing or augering, grubbing, tree removals, boring, grading, excavation, drilling, and trenching, within the Project area. The on-site monitoring shall end when the Project site grading and excavation activities are completed, or when the Qualified Archaeologist determines that the Project site has a low potential for impacting archaeological resources.

MM CUL-2 **Unanticipated Discovery of Archaeological Resources.** Upon discovery of any archaeological resources, cease construction activities in the immediate vicinity of the find until the find can be assessed. All archaeological resources unearthed by project construction activities shall be evaluated by the qualified archaeologist. Work may continue on other parts of the project while evaluation and, if necessary, treatment or mitigation takes place (CEQA Guidelines Section 15064.5 [f]). If a resource is determined by the qualified archaeologist to constitute a "historical resource" or "unique archaeological resource", time allotment and funding sufficient to allow for implementation of avoidance measures, or appropriate mitigation, must be available. The treatment plan established for the resources shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources and Public Resources Code Sections 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavations to remove the resource, along with subsequent laboratory processing and analysis. Any historic archaeological material that is not Native American in origin shall be paid to be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society in the area for educational purposes.

MM CUL-3 **Monitoring and Treatment Plan.** If significant archeological resources, as defined by CEQA (as amended, 2019), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, in coordination with the Consulting Tribes per mitigation measure CUL-3, and all subsequent finds shall be subject to this Plan.

MM CUL-4 **Archaeological/Cultural Reports.** Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the Project Applicant and City for dissemination to the Consulting Tribes. The City and/or Project Applicant shall, in good faith, consult with the Consulting Tribes throughout the life of the Project.

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

Less than Significant Impact with Mitigation Incorporated. The project site is not located within or near a formal cemetery and is not known to be located on a burial ground. The project site is developed, and it is highly unlikely the proposed project would disturb any human remains during construction. Should human remains be uncovered during construction, MMs CUL-6 through CUL-8 would be implemented. Therefore, impacts to human remains would be less than significant with mitigation incorporated.

MM CUL-5 **Unanticipated Discovery of Human Remains and Associated Funerary Objects.**

A. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.

B. If Native American human remains and/or grave goods discovered or recognized on the project site, then all construction activities shall immediately cease. Health and Safety Code Section 7050.5 dictates that any discoveries of human skeletal material shall be immediately reported to the County Coroner and all ground-disturbing activities shall immediately halt and shall remain halted until the coroner has determined the nature of the remains. If the coroner recognizes the human remains to be those of a Native American or has reason to believe they are Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission, and Public Resources Code Section 5097.98 shall be followed.

C. Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).

D. Construction activities may resume in other parts of the project site at a minimum of 200 feet away from discovered human remains and/or burial goods if the consulting tribe(s) determine that resuming construction activities at that distance is acceptable, and provides the project manager express consent of that determination (along with any other mitigation measures the consulting tribe(s) and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5(f).)

E. Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods. Any historic archaeological material that is not Native American in origin (non-TCR) shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, it shall be offered to a local school or historical society in the area for educational purposes.

F. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

MM CUL-6 **Resource Assessment & Continuation of Work Protocol.** Upon discovery, the tribal and/or archaeological monitor(s)/consultant(s) will immediately divert work at minimum of 200 feet and place an exclusion zone around the burial. The monitor(s)/ consultant(s) will then notify the consulting Tribe(s), the qualified lead archaeologist, and the construction manager, who will call the Coroner. Work will continue to be diverted while the Coroner determines whether the remains are Native American. The discovery is to be kept confidential and secure to prevent any further disturbance. If the finds are determined to be Native American, the coroner will notify the NAHC as mandated by state law, who will then appoint a Most Likely Descendent(s) (MLD). The treatment of human remains, ceremonial, and burial items will comply with the MLD's burial treatment policy. If multiple MLDs are identified by the NAHC, treatment will be approved by all MLDs prior to executing treatment.

VI. Energy

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

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

Less than Significant Impact. As is typical of any construction, the project would temporarily consume energy for the operation of construction equipment and vehicles. During construction, standard methods of excavation and concrete pouring are planned. Construction activities do not include methods of construction which would result in inefficient or unnecessary use of energy resources. The project is designed to meet California Code of Regulations (CCR) Title 24 CALGreen mandatory green building standards. As such, the development includes a suite of design features that assist in meeting the required energy reduction standards including: dual-paned, energy efficient windows; electric appliances within residential dwellings; Energy Star rated (or similar level) appliances; roof-mounted solar thermal panels to preheat domestic water; drought-tolerant landscaping; water-efficient plumbing fixtures; pre-wiring for the future install of electric vehicle charging stations for use by residents and office staff; and use of low VOC paints, coatings, finishes, and materials. Impacts would be less than significant.

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

Less than Significant Impact. Several levels of government have implemented regulatory programs in response to reducing greenhouse gas emissions (GHG) emissions, which consequently serve to increase energy efficiency. State agencies, including CARB, California Energy Commission, California Public Utilities Commission, California Department of Resources Recycling and Recovery (CalRecycle), California Department of Transportation (Caltrans), and the Department of Water Resources have developed regulatory and incentive programs that promote energy efficiency. Many of the measures are generally beyond the ability of any future development to implement and are implemented at the utility provider or the manufacturer level.

On a project level, 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 fixtures, 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 with a state or local plan for renewable energy or energy efficiency. Impacts would be less than significant.

VII. Geology and Soils

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

The discussion below is based on the Geotechnical Investigation prepared for the project by RMA GeoScience (2021), attached to this IS/MND as Appendix C. The Geotechnical Investigation contains several recommendations that are designed to meet the criteria set forth in the CBC, which is adopted into the UMC as Chapter 15.08. Accordingly, these recommendations are required by the CBC and are incorporated as project design features that would be included as conditions of approval. Please refer to Appendix C for the recommendations.

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

   i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?

No Impact. In 1972, the California legislature passed the Alquist-Priolo Earthquake Zoning Act (Act) to help identify areas subject to severe ground shaking. The purpose of this Act is to prohibit the placement of most structures for human occupancy across the traces of active faults; thereby mitigating the hazard of fault ruptures.

A fault is classified as active and categorized as within an Alquist Priolo Earthquake Fault Hazard Zone, if movement has occurred within the past 11,000 years. Where such zones are designated, no buildings or structures may be constructed on the trace of the fault. According to the Geotechnical Investigation prepared for the project, the proposed project site is not located within a mapped Alquist-Priolo Earthquake Fault Zone. Additionally, there are no known active faults on or immediately adjacent to the property. No impact would occur.

ii. Strong seismic ground shaking?

Less than Significant Impact. There are no known active faults on or adjacent to the project site. However, there are faults near enough to the site that have the potential to cause moderate to intense ground shaking at the site. The closest fault zones include the Cucamonga section of the Sierra Madre fault zone, located approximately 3.9 miles to the northwest of the project site, and the San Bernardino Valley section of the San Jacinto Fault located approximately 12.4 miles to the northeast of the project site. Additionally, the site has experienced earthquake-induced shaking in the past and can be expected to experience further shaking in the future. The project would comply with the seismic design parameters outlined in the CBC, which provide requirements for earthquake safety based on factors such as occupancy type, the types of soils onsite, and the probable strength of ground motion. Compliance with the CBC would include the incorporation of: (1) seismic safety features to minimize the potential for significant effects as a result of earthquakes; (2) proper building footings and foundations; and (3) construction of the building structure so that it would withstand the effects of strong ground shaking. In addition, the City's Building Department would review the site plans through building plan checks, issuance of a building permit, and inspection of the residences during construction, which would ensure that all required CBC seismic safety measures are incorporated into all of the homes. Adherence with construction and building safety standards would be required (as encoded in UMC Chapter 15. 08), would reduce potential impacts associated with seismic ground shaking at the project site. Impacts would be less than significant.

iii. Seismic-related ground failure, including liquefaction?

No Impact. Liquefaction is a phenomenon where earthquake-induced ground vibrations increase the pore pressure in saturated, granular soils until it is equal to the confining, overburden pressure. When this occurs, the soil can completely lose its shear strength and enter a liquefied state. The possibility of liquefaction is dependent upon grain size, relative density, confining pressure, saturation of the soils, and intensity and duration of ground shaking. In order for liquefaction to occur, three criteria must be met: underlying loose coarse-grained (sandy) soils, a groundwater depth of less than approximately 50 feet, and a potential for seismic shaking from nearby large-magnitude earthquake. According to the Geotechnical Investigation prepared for the project, the project site does not lie within a liquefaction hazard zone. Additionally, groundwater in the region of the project site is at a depth of approximately 600 feet below the ground surface, and the soils at the site are relatively dense. No Impact would occur.

iv. Landslides?

No Impact. According to the Geotechnical Investigation prepared for the project, the project site does not lie within a landslide hazard zone. Since the project site is relatively flat and there are no nearby slopes in the surrounding area, earthquake-induced land sliding is not anticipated to be a hazard for the proposed development. Additionally, construction of the proposed structures would follow existing guidelines set forth by the CBC. No impact would occur.

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

Less than Significant Impact. The project would include the construction of 64 single-family residential units and associated infrastructure. Construction of the proposed project would involve a variety of heavy equipment associated with intensive earthwork, structural, and paving phases. Soil exposed by construction activities, such as excavation, could be subject to erosion if exposed to heavy rain, winds, or other storm events. The project applicant would be required to submit a Notice of Intent (NOI) to the SARWQCB for the preparation a Storm Water Pollution Prevention Plan (SWPPP). Generally, a SWPPP demonstrates how water quality during, and post construction would be maintained in accordance with mandated objectives. Often this is achieved by employing BMPs. Many BMPs designed to protect water quality also serve to reduce soil erosion and loss of topsoil.

Specific BMPs may include the following:

- Preservation of existing vegetation within staging/parking areas where feasible.
- Covering stockpiled, excavated, and/or fill materials to reduce potential off-site sediment transport.
- Use of erosion control devices, such as straw wattles, mulch, mats, and/or geotextiles.
- Use of sediment controls to protect the site perimeter and prevent off-site sediment transport, including measures such as silt fencing, fiber rolls, gravel bags, temporary sediment basins, street sweeping, stabilized construction access points and sediment stockpiles, and use of properly fitted covers for sediment transport vehicles.
- Compliance with local dust control measures.
- Daily backfill, compaction, and/or covering of excavated pipeline trenches to minimize erosion potential.
- Paving of disturbed roadway areas as soon as feasible after completion of trenching.
- Regular inspection and maintenance of all erosion control and sediment catchment facilities to ensure proper function and effectiveness.

Further, construction would also be subject to compliance with the UMC Grading Permit regulations that address erosion control. Specifically, UMC Section 16.16.070.B, Grading and Erosion Control, specifies that every subdivision map shall be conditioned on compliance with the requirements for grading and erosion control, including the prevention of sedimentation or damage to off-site property, as set forth in UMC Chapter 15.52, Grading Restrictions. Once operational, the project would include a

combination of impermeable surfaces and landscaped areas, eliminating large areas of exposed soils that may be subject to erosion and sedimentation.

With implementation of required standard erosion control measures and storm water construction BMPs, construction-related erosion and sedimentation impacts would be less than significant. Additionally, once constructed, the project site would not include expansive areas of exposed soils that would contribute to erosion and sedimentation. Impacts would be less than significant.

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

Less than Significant Impact. Please see items VII a iii) and a iv).

Ground subsidence is the gradual settling or sinking of the ground surface with little or no horizontal movement. Most ground subsidence is induced by humans and is most commonly associated with the extraction of fluids (water and/or petroleum) from subsurface sediments. Subsidence can also occur when dry collapsible soils become saturated. Less commonly, ground subsidence can occur as a response to natural forces such as earthquake movements. Subsidence is known to occur in Upland, associated with depleting groundwater levels within the greater Chino Basin; however, programmatic efforts, such as the implementation of the Optimum Basin Management Program, which includes activities that promote optimal management of the Chino Basin with a goal to ultimately minimize land subsidence. While these efforts are not part of the project, they work to reduce the risk of subsidence in the Chino Basin, and thus Upland and the project site.

The Geotechnical Investigation includes recommendations that are designed to meet the CBC standards and have been incorporated into the project as design features that would be adopted as conditions of approval. Mandatory compliance with applicable seismic-safety development requirements would minimize potential effects related to subsidence or unstable geologic units or soil. Impacts would be less than significant.

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

Less than Significant Impact According to the Geotechnical Investigation prepared for the project, the shallow soils located at the project site are anticipated to have an expansion index in the very low range. However, additional expansion testing would be required at the completion of rough grading to verify these findings. The Geotechnical Investigation includes recommendations that are designed to meet the criteria of the CBC and have been incorporated as project design features. The design, construction, and engineering of buildings and structures within the City are subject to compliance with the City's Building Code (and thus the CBC) and as stated in the General Plan EIR, through the City's permitting process, numerous controls are imposed on development that would lessen potential risks involving ground failure, unstable geologic units/soils, and expansive soils (City 2015b). Impacts would be less than significant.

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

No Impact. No septic tanks or alternative wastewater disposal systems would be installed as part of the proposed project. No impact would occur.

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

Less than Significant Impact. No known unique geologic features are located at the project site. Additionally, the project site is currently developed with an existing lumber yard, so the potential for the unanticipated discovery of a unique geologic features at the site is minimal due to past disturbance. According to the City's General Plan EIR, the City is located upon a thin blanket of alluvial sediments derived from southbound erosion of the San Bernardino Mountains, with San Antonio Creek and Cucamonga Creek serving as the primary watersheds delivering the alluvium. Most of the alluvial sediments were deposited during the Holocene era or Pleistocene era. Sediments deposited during the Holocene era are widely considered by paleontologists to be too young to contain fossils, while sediments deposited during the Pleistocene era have a moderate potential to have paleontological resources (City 2015b). According to the Geotechnical Investigation prepared for the project, the project site is underlain with artificial fill and young alluvial fan deposits from the Holocene era. Therefore, the potential for discovery of unknown fossils during project related ground disturbance activities is considered relatively low to negligible. In the unlikely event of unanticipated discovery of paleontological resources, the City would cease ground-disturbing activities within 100 meters of the find until a qualified archaeologist or paleontologist is able to evaluate the significance of the finding and appropriate course of action, per the guidelines outlined in the City's General Plan EIR (City 2015b). Impacts would be less than significant.

VIII. Greenhouse Gas Emissions

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

HELIX prepared an Air Quality and Greenhouse Gas Emissions Technical Report for the project in November 2021 (HELIX 2021b), which is included in its entirety as Appendix A of this IS/MND, the results of which are summarized below.

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

Less than Significant Impact. 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 GHGs defined under California's Assembly Bill (AB) 32 include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

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_2. For example, a gas with a GWP of 10 is 10 times more potent than CO_2 over 100 years. Carbon dioxide equivalent (CO_2e) 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_2e. By applying the GWP ratios, project-related CO_2e emissions can be tabulated in metric tons (MT) per year.

Below is a discussion of the project's construction and operational related GHG emissions.

Construction Emissions

Project construction GHG emissions were estimated using the CalEEMod model. Additional details of phasing, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

Emissions of GHGs related to the construction of the project would be temporary. As shown in Table 4, *Estimated Construction GHG Emissions*, total GHG emissions associated with construction of the project are estimated at 780 MT CO_2e. For construction emissions, SCAQMD guidance recommends that the emissions be amortized (i.e., averaged) over 30 years and added to operational emissions. Averaged over 30 years, the proposed construction activities would contribute approximately 26 MT CO_2e emissions per year.

Table 4
ESTIMATED CONSTRUCTION GHG EMISSIONS

Year/Activity	Emissions ($MT CO_2e$)
Demolition	27.31
Site Preparation	8.82
Grading	40.26
Underground Utilities	29.47
Paving	20.06
Building Construction	637.33
Architectural Coatings	16.27
TOTAL[1]	**779.52**
Amortized Construction Emissions[2]	*25.98*

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
[2] Construction emissions are amortized over 30 years in accordance with SCAQMD guidance.
GHG = greenhouse gas; MT = metric tons; CO_2e = carbon dioxide equivalent

Operational Emissions

Table 5, *Total Estimated Operational GHG Emissions*, shows the calculated total annual emissions for the project. The emissions include the amortized annual construction emissions anticipated for the project. Appendix A contains the CalEEMod output files for the project.

Table 5
TOTAL ESTIMATED OPERATIONAL GHG EMISSIONS

Emission Sources	2020 Emissions ($MT CO_2e$)
Area Sources	1.12
Energy Sources	82.93
Vehicular (Mobile) Sources	545.11
Solid Waste Sources	11.28
Water Sources	16.71
Subtotal[1]	657.14
Construction (Annualized over 30 years)	25.98
TOTAL[1]	683.13
SCAQMD Adjusted Threshold	2,324
Exceed Threshold?	No

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
[2] Emission per capita is the project total emissions divided by the project population (2,535.5/764).
GHG = greenhouse gas; MT = metric tons; CO_2e = carbon dioxide equivalent

As shown in Table 5, the project emissions (total construction and operation) would not exceed the SCAQMD threshold. Impacts would be less than significant.

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

Less than Significant Impact. There are numerous State plans, policies, and regulations adopted for the purpose of reducing GHG emissions. The principal overall State plan and policy is AB 32, the California Global Warming Solutions Act of 2006. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020. Additionally, SB 32 would require further reductions of 40 percent below 1990 levels by 2030. Because the project's operational year is post-2020, the project aims to reach the quantitative goals set by SB 32. Statewide plans and regulations such as GHG emissions standards for vehicles (AB 1493), the low carbon fuel standards, and regulations requiring an increasing fraction of electricity to be generated from renewable sources are being implemented at the statewide level; as such, compliance at the project level is not addressed. Therefore, the proposed project would not conflict with those plans and regulations.

In September 2015, the City adopted the Upland Climate Action Plan (CAP), under which the City selected a goal to reduce its community GHG emissions by at least 16 percent from 2008 levels by the year 2020 (City 2015c). The City's CAP details the following five strategies to accomplish its GHG reduction goal:

1. Transportation and Land Use Strategy: Promote a balanced transportation system that promotes the use of public transportation and bicycles, reduces congestion, and helps encourage residents to engage in healthy and active lifestyles.

2. Energy Use and Conservation Strategy: Reduce energy consumption throughout all sources within the City, and incorporate clean, renewable energy sources.

3. Water Use and Efficiency Strategy: Conserve and protect water resources and promote efficiency.

4. Solid Waste Reduction and Recycling Strategy: Manage solid waste generation and diversion.

5. Municipal Strategy: Reductions that the City can implement to reduce municipal emissions.

Step 1 in determining whether a project is consistent with the City's CAP is determining if the project is consistent with the City's General Plan growth projections, which are the basis of the City's GHG emissions inventory (this includes consistency with the planned land use, zoning, and development intensity of a particular site). If a project is consistent with the City's General Plan growth projections, it is reasonable to conclude that project's GHG emissions have been accounted for in the CAP. However, to accommodate the residences, the project would require a General Plan land use amendment and a zone change from the current Light Industrial/Business Park designation and Light Industrial Zoning to Specific Plan. The emissions associated with the proposed development were not included in the City's land use projections; therefore, the CAP also does not anticipate emissions from the proposed project's land uses.

If the discretionary project is not consistent with the Upland General Plan's year 2035 growth projections, the project is not necessarily inconsistent with the CAP. The CAP includes General Plan growth assumptions and depicts the opportunity areas where the General Plan would focus growth. The following steps must be performed to determine consistency:

Step 2: Consider the extent to which the project supports or includes applicable strategies and measures, or advances the actions identified in the CAP.

Step 3: Consider the consistency of the project with the emission reduction targets set by the CAP.

Step 4: Consider the extent to which the project would not interfere with the implementation of CAP strategies, objectives, measures, or actions.

A project that can justify its consistency with any of these steps can be deemed consistent with the CAP by the decision-making body. In accordance with Step 2 and Step 4, the proposed project would incorporate design features to comply with the CAP's five strategies established to attain its GHG reduction goal.

In accordance with the CAP's Objective B: Maximize Land Use Efficiency, the project is consistent with transportation and land use Measure T-7: Residential Density. The proposed project would allow for residential development on the site which would help the City to increase residential land use density goals in the CAP. As discussed in Section III, the City has recognized the potential for the project site to accommodate 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 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 Upland a new housing need of 5,686 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 housing, the project would support the City's housing supply and provide increased housing near existing commercial uses, increasing a customer base for commercial units and reducing commutes for employees. Therefore, allowing for the construction of housing generally fulfills several key issues and policies of the City's CAP through the reduction in regional vehicle miles traveled in order to reduce GHG emissions.

In accordance with the CAP's Energy Use and Conservation Strategy, the project would incorporate energy efficiency measures for all project buildings such as increased insulation and installation of energy-efficient lighting, heating and cooling systems, appliances, equipment, and control systems pursuant to Title 24 of the California Code of Regulations (The Energy Efficiency Standards for Residential and Nonresidential Buildings).

In accordance with the CAP's Water Use and Efficiency Strategy, the project would comply with the City's water reduction requirements pursuant to City Municipal Code Section 13.16.050, Conservation program-High shortage stage, through installation of water-reducing or water-saving toilets, showerheads, and irrigation systems, as well as drought-tolerant landscaping.

Finally, in accordance with the CAP's Solid Waste Reduction and Recycling Strategy, construction of the project would result in recycling at least 60 percent of all construction materials and utilization of "green building materials" for at least 10 percent of the project in accordance with the California Department of

Resources Recycling and Recovery (CalRecycle) Sustainable (Green) Building Program. Therefore, the project would not conflict with the City's CAP.

The project must also be constructed in accordance with the energy-efficiency standards, water reduction goals, and other standards contained in the 2019 Title 24 Part 6 Building Energy Efficiency Standards and Part 11 (CALGreen) Building Standards, including the requirement for onsite solar electricity generation. As such and as discussed in item VI a), the development includes a suite of design features that assist in meeting the required energy reduction standards including: dual-paned, energy efficient windows; electric appliances within residential dwellings; Energy Star rated (or similar level) appliances; roof-mounted solar thermal panels to preheat domestic water; drought-tolerant landscaping; water-efficient plumbing fixtures; pre-wiring for the future install of electric vehicle charging stations for use by residents and office staff; and use of low VOC paints, coatings, finishes, and materials. Impacts would be less than significant.

IX. Hazards and Hazardous Materials

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

A Phase I Environmental Site Assessment (Phase I ESA) (Hillmann Consulting 2021a), and Limited Phase II Subsurface Investigation Report (Phase II Report) (Hillmann Consulting 2021b) were prepared for the

project. As applicable, information from these reports is summarized below and the reports are included in their entirety as Appendix D to this IS/MND.

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

Less than Significant Impact. The project would involve the construction 64 new single-family residences on an existing lumber yard. Construction that would be reasonably foreseeable with implementation of the proposed project would require the transport, use, and disposal of materials that are typically associated with construction activities, such as diesel fuels, hydraulic liquids, oils, solvents, and paints. This transport, use, and disposal of hazardous materials is regulated by federal, state, and local agencies and regulations, such as the U.S. Environmental Protection Agency's (USEPA's) Resource Conservation and Recovery Act of 1976, the U.S. Department of Transportation's Hazardous Materials Regulations, and the San Bernardino County Hazardous Materials Program's regulations. Adherence to such regulations would result in less than significant construction impacts.

Operation of the proposed project would include the storage and use of household hazardous materials and wastes. Typical household hazardous materials associated with the residential land uses could include cleaning products, paints, solvents, adhesives, other chemical materials used in building maintenance and interior improvements, automotive lubricants, small combustion engine fuels and lubricants, expired pharmaceuticals, mercury thermometers, sharp or used needles, and electronic wastes from household and car batteries. No special permits would be required for such limited use or disposal of common agents and products. Therefore, operation of the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Impacts would be less than significant.

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

Less than Significant Impact. As discussed above in item IX a), limited quantities of hazardous materials such as gasoline, diesel, oils, and lubricants may be required to operate the construction equipment. Construction activities would be short-term, and the use of these materials would cease once construction is complete. The hazardous substances used during construction would be required to comply with existing federal, state, and local regulations regarding the use and disposal of these materials. In the event of an accidental release during construction, containment and clean up would be in accordance with existing applicable regulatory requirements.

There is the potential that due to the age of the onsite structures that they could contain asbestos containing materials or lead based paint, which could be disturbed during demolition activities. Federal and state regulations govern the renovation and demolition of structures where materials containing lead and asbestos are present. These requirements include SCAQMD Rules and Regulations pertaining to asbestos abatement (including Rule 1403), Construction Safety Orders 1529 (pertaining to asbestos) and 1532.1 (pertaining to lead) from Title 8 of the CCR, Part 61, Subpart M of the Code of Federal Regulations (pertaining to asbestos), and lead exposure guidelines provided by the US Department of Housing and Urban Development. Asbestos and lead abatement must be performed and monitored by contractors with appropriate training and certification as mandated by the above regulations and the California Occupational Safety and Health Administration.

As discussed above in item IX a), post construction, the project does not include land uses or improvements that would involve any transport, use, or disposal of hazardous materials, nor would they emit hazardous emissions, other than common household hazardous materials and chemicals and products for routine maintenance. The use of household hazardous wastes which do not require special permits for limited use and disposal. Impacts would be less than significant.

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

No Impact. The project site is not located within one-quarter mile of an existing or proposed school. The nearest school is Los Amigos Elementary School, which is approximately 0.5 mile southeast of the site. The project would introduce residential land uses to the site. These land uses do not generate hazardous emissions or involve the handling of acutely hazardous materials, substances, or wastes. As noted in item IX a), earlier, the residential land uses would involve the regular handling of minor quantities of common household chemical agents and related wastes; however, these types of wastes are typical and do not represent a hazardous materials or waste impact. No impact would occur.

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

Less than Significant Impact. A Phase I ESA and limited Phase II Report were prepared for the project. As stated by the American Society for Testing Materials International (ASTM), the purpose of the Phase I ESA is to identify recognized environmental conditions (RECs), which are defined as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any 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." There are three categories of RECs: existing RECs (as defined above), Historical RECs (HRECs), or Controlled RECs (CRECs). An HREC is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls." An HREC is an environmental condition that was recognized in the past but may or may not still be recognized as a current environmental condition. A CREC is defined as a "recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls." A CREC is an active environmental concern because while the hazardous substances have been corrected to meet certain regulatory levels, the contaminants still remain and have the potential to be above regulatory levels for some types of development.

As part of the Phase I ESA prepared for the project, a search of environmental databases, compiled pursuant to Government Code Section 65962.5, was conducted by Environmental Data Resources, Inc (EDR). According to the Phase I ESA, the project address was associated with the following listings:

- HIST UST (Historical Underground Storage Tank). The HIST UST lists a former 1,000-gallon gasoline UST installed in 1956 and a former 1,000-gallon diesel UST installed in 1979 associated with the project site.

- SWEEPS UST (Statewide Environmental Evaluation and Planning System, Underground Storage Tank). The SWEEPS UST database lists to two former USTs that are associated with the project site.

- CA FID UST (California Inventory Database). The CA FID UST database lists an inactive facility (UST).

- HWTS (Hazardous Waste Transport System). The HWTS database that tracks hazardous waste transport and does not track violators. A listing on this site is an indicator that hazardous waste was transported to or from the site.

- HAZNET (Hazardous Waste Information System) The HAZNET database contains extracts from hazardous waste manifests received annually by the California Department of Toxic Substances Control. The listing pertains to the current site operator participating as required in this program.

- FINDS (Facilities Index System). The FINDS database is a central and common inventory of facilities monitored or regulated by the Environmental Protection Agency.

A listing on these databases is not a direct indication that there is a hazardous materials or waste threat at the project site. The two 1,000-gallon USTs documented as having been installed were reportedly removed in the 1980s; however, the removal has not been verified by the San Bernardino County Fire Department (SBCFD), and therefore, the Phase I ESA considers these tanks a REC, and provided a foundation for the recommendation of a limited Phase II Report, which is further discussed below.

The Phase I ESA also included a review of historical records, which found a railroad spur present along the northern portion of the property, in addition to historical and current operations of a sawmill and associated machinery. Railroad spurs are associated with the use of pesticides for weed control, which can have the potential to accumulative. Therefore, the spur was also identified as a REC. Additionally, operation of the sawmill and associated machinery includes the use of oils, lubricants, and transmission fluids which may have negatively impacted the subsurface through various cracks in the pavement and is considered to be an REC. No HRECs or CRECs were identified.

Due to the presence of three RECs at the project site, a Phase II Report was recommended and completed. Activities conducted for the Phase II Report included soil and soil gas sampling in targeted locations across the site to determine if the RECs caused significant subsurface contamination that might present a risk to the project. According to the Phase II Report, the soil testing did not find concentrations of hazardous materials exceeding the residential screening levels. Additionally, an investigation indicated no evidence of USTs remaining at the site. Therefore, the RECs identified at the project site would not result in significant impacts related to hazardous materials. Impacts would be less than significant.

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

Less than Significant Impact. The project is not located withing two miles of a public or public use airport. The two closest airports to the project site are Ontario International Airport (OIA), located

approximately three miles south of the project site, and Cable Airport, located approximately three miles northwest of the project site. Each airport has an Airport Land Use Compatibility Plan (ALUCP) which contain policies that guide development within their respective Airport Influence Area (AIA). The basic function of an ALUCP is to promote compatibility between airports and the surrounding land uses. The project is located within the AIA for OIA and is included within an area that requires Federal Aviation Administration (FAA) Height Notification for any development over 200 feet. The proposed residences would extend to a height of 35 feet and therefore would not require notification. The project site is also within the Real Estate Transaction Disclosure Zone, which includes the entire AIA for OIA (Mead & Hunt 2011). The Real Estate Transaction Disclosure Zone is an area that encompasses areas underlying the common aircraft traffic patterns where aircraft are typically flying at altitudes of 3,000 feet or less. However, the proposed project is not located within the safety zones or noise impact zones for the OIA. Therefore, development within the project site would not conflict with the OIA ALUCP. Additionally, the proposed project is not located within the AIA for Cable Airport, so it would not conflict with the ALUCP for Cable Airport (Mead & Hunt 2015). The project is not located within two miles of a public airport or public use airport and would not conflict with an ALUCP. Therefore, the project would not result in a safety hazard or excessive noise for people residing or working in the project area due to airport hazards. Impacts would be less than significant.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less than Significant Impact. The project could impact emergency access during both construction and operation. During construction of the project, heavy construction vehicles could interfere with emergency response to the site or emergency evacuation procedures in the event of an emergency (e.g., vehicles traveling behind the slow-moving truck). However, such trips would be brief and infrequent. Additionally, although traffic may temporarily need to be directed around the construction, the project construction would not require road closures. Public roadways would remain open for standard traffic and emergency response vehicles for the duration of construction. The City's Traffic Control Handbook identifies the procedures to reduce construction-related impacts and maintain traffic flow on City streets and the project conditions of approval would require that emergency access be maintained during construction.

Once operational, access to the project area would be from a driveway off of East Arrow Highway. As discussed further in Section XVII, Transportation and Traffic, the project would result in 476 average daily trips (ADT); no substantial deficiencies were identified for roadways and intersections in the area surrounding the project site with the addition of project-related traffic. Also, access to the project site would be improved with project implementation by refurbishing the existing driveway along the project's frontage on East Arrow Highway to a full-access driveway and providing a secondary dedicated emergency access along North 14th Avenue, which would improve emergency response access and evacuation for the site. The proposed on-site roadways would be designed to provide a 24-foot right of way, which is sufficient access to and from each of the 64 proposed residences in the event of an emergency. In addition, the SBCFD and City Public Works Department would review the circulation to ensure compliance with SBCFD standards (turning radii, street widths,) and traffic safety standards (line of sight, traffic calming, etc.).

In relation to an emergency response plan, the City participates in the County's Multi-Jurisdictional Hazard Mitigation Plan. These are plans that are implemented on a regional level and outline the jurisdictional concerns, resources, and action items to ensure community-wide safety from both natural

and manufactured threats. Additionally, the City has prepared an Emergency Operations Plan in order to respond to situations associated with natural disasters, technological incidents, and national security emergencies. These plans are programmatic and administered at a City and regional level, there are no components of the proposed single-family residential project that would disrupt the effective implementation of these plans. At a project level, the project would adhere to the required municipal codes, including those that have been adopted to enact the CBC and the California Fire Code to maintain adequate emergency access and response. The project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Impacts would be less than significant.

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

Less than Significant Impact. The California Department of Forestry and Fire Protection (CAL FIRE) classifies lands in accordance with whether a very high fire hazard is present so that public officials are able to identify measures that will retard the rate of fire spread and reduce the intensity of uncontrolled fire through vegetation management and building standards. The designation of being within a very high or high fire severity hazard zone is based upon a combination of fuels, terrain, weather, and other relevant factors. According to the CAL FIRE Fire Hazard Severity Zone (FHSZ) map, the project site is not located within a Very High Fire Hazard Severity Zone (VHFHSZ; CAL FIRE 2008). The project site is located in an urbanized environment. There are no wildlands or open spaces immediately adjacent to the project site, which significantly reduces the risk of wildland fire damage to people and structures in the area. The proposed project would adhere to the California Fire Code. Therefore, the proposed project is not anticipated to expose people or structures to wildland fires. Impacts would be less than significant.

X. Hydrology and Water Quality

Would the project:		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a)	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	■	☐
b)	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	■	☐
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
	i. Result in substantial erosion or siltation on- or off-site?	☐	☐	■	☐
	ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off- site?	☐	☐	■	☐

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional resources of polluted runoff?	☐	☐	■	☐
iv. Impede or redirect flood flows?	☐	☐	■	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	■
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	■

The discussion below is based in part on a Proposed Hydrology Report and a Preliminary Water Quality Management Plan that were prepared for the project by Hunsaker and Associates in November 2021. These reports are included in their entirety in Appendix E of this IS/MND.

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

Less than Significant Impact. The proposed project includes the construction of 64 single-family homes and associated infrastructure. As such, the proposed project would change the site through site grading and by adding impervious surfaces, such as building roofs, paved drives, and access roads, that would alter the hydrological patterns of the site and could introduce new sources of water pollutants in site runoff. There is the potential for water pollutants to be generated in the short-term during construction activities and in the long term due to the permanent changes to the site. Construction related pollutants might include loose soils, liquid and solid construction materials and wastes, and accidental spills of concrete, fuels, and other materials. As an urban development, the proposed project would add typical, non-point-source pollutants to stormwater runoff, primarily due to runoff from impervious surfaces where a variety of pollutants can collect over time, such as driveways, streets, roofs, patios, and other paved surfaces. Landscaped areas can also generate water pollutants such as fertilizers and weed control agents, as well as green waste from landscape maintenance cuttings. Several measures to protect water quality and limit discharges are directed and implemented, through both the preparation of various plans and adherence to established programs. As discussed below, the project will be required to demonstrate compliance with such plans and programs.

Upland is within the jurisdiction of the SARWQCB, which is tasked with protecting the region's water quality objectives that meet the standards set forth in the Section 303 of the federal Clean Water Act (CWA) as well as the state's Porter-Cologne Water Quality Act. The SARWQCB designates beneficial uses of surface water and groundwater, sets qualitative and quantitative water quality objectives that must be met to protect designated beneficial uses, and develops implementation programs to protect the regional water resources through its Water Quality Control Plan for the Santa Ana River Basin (the Basin Plan).

Additionally, the NPDES program regulates point source and non-point source pollutant discharges to surface waters. Municipalities are required to obtain permits for the water pollution generated by

stormwater in their jurisdictions. These permits are known as municipal separate storm sewer system (MS4) permits. Because the proposed project's stormwater runoff would be discharged into the local municipal storm drain system, the project is required to demonstrate that it would be consistent with the standards established in the MS4 permit as encoded in Chapter 13.32 of the UMC, Stormwater Drainage Management.

The project would adhere to the NPDES Construction General Permit during construction, which includes BMPs that serve to protect groundwater quality. A SWPPP would also be prepared in compliance with the Construction General Permit, which would identify erosion control and sediment control BMPs, such as desilting basins or other temporary drainage or control measures, or both, as may be necessary to control construction-related pollutants. The City will not issue a grading permit for the project until the SWPPP has been submitted to and approved by the City (Section 12.16.112[D]).

Once operational, a series of project design features would serve to capture and treat runoff so as to not impact downstream watersheds (Hunsaker and Associates 2021b). Specifically, the majority of the site would drain westerly towards an onsite catch basin with overflows directed to a secondary onsite catch basin. Water lines are proposed to divert low flows to a proposed underground basin for underground infiltration. As the infiltration rate decreases and the water starts to pond, an emergency escape pipe at a higher elevation would direct flows to the proposed storm drain. The second drainage area (0.31 acre) would sheet flow to North 14th Avenue. Any high flows would be conveyed through a new off-site proposed system from the site through North 14th Avenue and 9th Street and connect to an existing San Bernardino County Flood Control District structure at Bodenhamer Street.

Based on the analysis above, the project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. Impacts would be less than significant.

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

Less than Significant Impact. The improvements associated with the proposed project would not deplete groundwater supplies or interfere substantially with groundwater recharge. The project site is within an established urban community serviced by the City, Public Utilities Department, and the project does not involve the use of groundwater during construction or operation. Additionally, all project improvements would occur within the existing developed footprint. Any expansion of impervious areas, which could interfere with groundwater recharge, would be minimal. Therefore, the proposed project would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge, and impacts would be less than significant.

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

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

Less than Significant Impact. There are no on-site drainage courses and no nearby off-site drainage courses that would be altered by the project. The nearest drainage course is Cucamonga Creek, which within the City operates as a channelized storm drain facility. Cucamonga Creek is approximately a mile and a half east of the project site and the project would not create impacts that would alter this

channelized facility. However, the project would alter the drainage patterns during both construction during earth moving activities and operation through the introduction of structures and altering the amount of impervious surfaces. Specifically, there are no existing storm drain facilities onsite and storm water currently sheet flows across the site towards a 24-inch reinforced concrete pipe inlet west of the project site and towards North 14th Avenue.

As discussed in item VII b), the project would be required to adhere to the NPDES Construction General Permit, which would require the preparation of a SWPPP that would outline construction-related BMPs that would reduce the amount of siltation and erosion during project construction. As noted, a WQMP has been prepared for the project. The purpose of the WQMP is to control site sediments, treat site pollutants, maintain the predeveloped site infiltration, and to control downstream erosion and creation of sediment. The WQMP documents LID BMPs, pollutant treatment BMPs and mitigation structural BMPs; provides the requirements on how to minimize the pollutants as a result of the development; and provides the instructions and requirements of the post construction operation and maintenance of the WQMP facilities. BMPs would include, but not be limited to, proper collection of landscaping wastes, vacuum sweeping of private streets and parking areas, incorporation of storm drain system stenciling and signage, construction of all trash enclosures with solid roofs, and establishment of educational materials for employees and residents.

Once developed, the project would alter the on-site drainage patterns through the introduction of new land uses that would be a combination of both impervious surfaces and landscaped and semi-permeable surfaces. Project design features include two catch basins and an underground infiltration basin, which would capture, store, and treat runoff. According to the Proposed Hydrology Report prepared for the project, the project would result in a reduction of impervious surfaces and the rate of runoff (Hunsaker 2021).

Therefore, given that the site would include construction and operational BMPS, reduce the amount of impermeable surfaces and rate of runoff, and includes the installation of a proposed storm drain system to capture and convey on-site runoff to the municipal system, the project would not result in substantial erosion or siltation on- or off-site. Impacts would be less than significant.

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

Less than Significant Impact. The project site would transition from a lumber yard to residential land uses that would support a combination of impervious surfaces and landscaped conditions, which would alter the rate and amount of runoff. Runoff would be handled by the stormwater control project design features as discussed below.

Currently there are no storm drain facilities onsite. The project site is divided into two drainage areas with the majority of the runoff from the impermeable areas onsite (4.69 acres) draining westerly towards the adjacent property (Cherokee Wood Products) towards a 24-inch reinforced concrete pipe (RCP) headwall inlet that connects to a reinforced concrete box. The remaining 0.21 acres sheet flows towards North 14th Avenue.

Under project conditions, the impermeable area would decrease from approximately the entire 4.84 acres to 3.87 acres. The project would minimize impervious area by constructing road widths and sidewalks to minimum widths allowable wherever feasible, maintaining greater than 20 percent project area with open space for landscaping improvements and open space. The majority of the site would

drain westerly towards an onsite catch basin with overflows directed to a secondary onsite catch basin. Water lines are proposed to divert low flows to a proposed underground basin for underground infiltration. As the infiltration rate decreases and the water starts to pond, an emergency escape pipe at a higher elevation would direct flows to the proposed storm drain. The second drainage area (0.31 acre) would sheet flow to North 14th Avenue. Any high flows would be conveyed through a new off-site proposed system from the site through North 14th Avenue and 9th Street and connect to an existing San Bernardino County Flood Control District structure at Bodenhamer Street.

The project would decrease the area of impervious surfaces in relation to the existing site conditions and correspondingly, the rate of runoff would decrease from the existing 19.7 cubic feet per second (cfs) to 18.0 cfs. Thus, through the reduction of impermeable surfaces (and runoff), a decrease in the rate of runoff, and the installation of storm drain project design features, the project would not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off- site. Impacts are less than significant.

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

Less than Significant Impact. As discussed in X c ii) the project would include storm drain infrastructure designed to capture, store, and release runoff at rates that are either equal to or less than the current site conditions. Additionally, captured runoff would enter the project's filtration system. Further, the project is required to incorporate both construction and operational BMPs that reduce pollutants. Such BMPs would include, but not be limited to, proper collection of landscaping wastes, vacuum sweeping of private streets and parking areas, incorporation of storm drain system stenciling and signage, construction of all trash enclosures with solid roofs, and establishment of educational materials for employees and residents.

Therefore, through a combination of the construction and operational BMPs and the project design features, the project would not create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional resources of polluted runoff. Impacts would be less than significant.

iv. Impede or redirect flood flows?

Less than Significant Impact. According to Exhibit 5.13-2, *Flood Hazard Areas*, of the General Plan EIR, the project site is not located within a 100-year flood plain (City 2015b). Thus, while the project would alter the drainage patterns on the project site, it would not impede or redirect flood flows. Impacts would be less than significant.

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

No Impact. According to the map of flood zones in the City's General Plan EIR, the project site is not located within or adjacent to a 100-year flood zone (City 2015b). The project is located approximately 50 miles inland from the Pacific Ocean and is therefore not at risk of experiencing tsunami hazards. The project site is not located downstream of or adjacent to any major water bodies, including lakes or rivers, that could contribute to impacts associated with inundation by seiche or mudflows. The closest water body to the project site is the 8th Street Basin, located approximately 0.5 mile south of the site, which would not pose a flooding hazard to the project site due to the distance. Therefore, the proposed

project would not contribute to inundation by seiche, tsunami, or mudflow and no significant environmental impacts are anticipated.

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

No Impact. There are no known water quality control plans or sustainable groundwater management plans that apply to the project site and no impact is expected.

XI. Land Use and Planning

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

a) Physically divide an established community?

No Impact. The physical division of an established community typically refers to the construction of a linear feature, such as an interstate highway or railroad tracks, or removal of a means of access, such as a local road or bridge that would impact mobility within an existing community or between a community and outlying area.

The project site is within an urban area developed with primarily residential and light industrial and commercial uses. The proposed project consists of construction of 64 single-family homes, which would complement the pattern of residential land uses that are present to the east and south of the site. No new major supporting infrastructure facilities would need to be constructed and extended to the project site that could result in a physical disruption to an established land use or the local pattern of development. Therefore, the proposed project would not physically divide an established community; no impacts would occur.

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

Less than Significant with Mitigation Incorporated. The project site is designated as LI-BP in the General Plan and is zoned as LI; the project would require a General Plan Amendment and zone change to Specific Plan.

As discussed in Section III, the City has recognized the potential for the project site to accommodate 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 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 Upland a new housing need of 5,686 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.

Regardless, the project would require a General Plan Amendment and zone change to accommodate the residential land uses; however, the transition of the site from light industrial land uses to residential is an extension of the existing land uses to the south and east. Therefore, these actions would not constitute a conflict with a land use plan adopted for the purposes of avoiding or mitigating an environmental effect as the proposed residences would be compatible with the like land uses that already exist immediately adjacent to the site. Moreover, the current LI-BP designation and LI zoning indicate that the site does not support any environmentally sensitive resources and as discussed in Section IX, the Phase II ESA performed for the site determined that the past and current light industrial land uses have not precluded the site from being residentially developed. Note in item IV f), the City is not located within jurisdiction of a Habitat Conservation Plan or Natural Community Conservation Plan.

With regards to noise, the proposed project would be subject to the residential exterior and interior noise level requirements in the City's General Plan Safety Element of 65 Community Noise Equivalent Level (CNEL) and 45 CNEL, respectively. As discussed in the Acoustical Analysis Report prepared for the project, future on-site residential land uses would be exposed to noise from vehicular traffic along East Arrow Highway adjacent to the project site. Impacts related to exterior noise would be significant if future residential uses are exposed to noise levels in excess of the 65 CNEL limit set forth in the City General Plan Safety Element. Modeling existing plus project traffic along East Arrow Highway completed by the Acoustical Analysis Report indicates that noise levels would exceed 65 CNEL for all receivers within 30 feet of the roadway. According to the site plan, the 65 CNEL contour would not extend into the project site, as measured from the roadway centerline. At this distance, noise levels from the roadway would not exceed the limits set forth in the City General Plan for residential uses, and the project's proposed land use would therefore be compatible with the site's noise conditions.

Noise levels generated by the neighboring Cherokee Wood Products were calculated to be approximately 62.3 CNEL at the project's western boundary, although noise-generating activities at the adjacent property may fluctuate depending on the activities being performed. With the included minimum 6-foot noise barrier to be built as part of the project, it is anticipated that noise levels from the adjacent property would not exceed the 65 CNEL limits set for residential uses, and the project's proposed land use would therefore be compatible with the site's noise conditions.

Traditional architectural materials are conservatively estimated to attenuate noise levels by 15 CNEL; therefore, if exterior noise levels at building façades exceed 60 CNEL, interior noise levels may exceed the 45 CNEL limit set forth in the City General Plan Safety Element for residential uses. Noise levels from East Arrow Highway would exceed 60 CNEL within 65 feet from the roadway centerline. Additionally, noise levels from the Cherokee Wood Products site would generate noise levels of approximately

62.3 CNEL at the western property line. Therefore, façades exposed to these elevated noise levels would not be guaranteed to comply with the 45 CNEL limits.

As a final site plan and floor plans are not available at this point in project planning, the precise individual residences and habitable rooms that would be exposed to noise levels cannot be determined. Due to the attenuation of the proposed project's structures, it is assumed that only those habitable rooms with a direct line-of-sight to East Arrow Highway and the neighboring Cherokee Wood Products building would be expected to exceed the interior noise limits. As a conservative estimate, this IS/MND concludes that all residential façades located within 50 feet of the project's northern and western property lines would experience interior noise levels exceeding the requirements in the City's General Plan Safety Element, resulting in a significant impact. With implementation of mitigation measure LU-1, impacts related to interior noise levels would be reduced to a less than significant level. The project would not conflict with any other land use plan, policy, or regulation of an agency with jurisdiction over the project adopted for the purpose of avoiding or mitigating an environmental effect. Impacts would be less than significant with mitigation incorporated.

LU-1 **Noise-attenuating Building Materials.** For the project's habitable areas (both living rooms and bedrooms) within 50 feet of East Arrow Highway and the Cherokee Wood Products site, the following measures shall be incorporated in the design of the project to reduce interior noise levels to 45 CNEL or less:

- Minimum exterior wall requirement of STC 46 with a construction of standard 3/8-inch exterior one coat stucco over 1.0-inch rigid R-4 insulation over 1/2-inch shearwall on 2x6 studs with 5/8-inch Type "X" Drywall.
- Minimum window requirement of STC 28 with a vinyl frame window construction of dual glazing window thickness 1/8-inch and 1/2-inch air gap.
- Appropriate means of air circulation and provision of fresh air intake shall be incorporated in the project to allow windows to remain closed for extended intervals of time so that acceptable levels of noise can be maintained on the interior.
- Buildings shall provide mechanical ventilation in accordance with the 2019 California Mechanical Code.

XII. Mineral Resources

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

a-b) **Less than Significant Impact.** Mineral resources are commonly defined as a concentration or occurrence of natural, solid, inorganic, or fossilized organic material in or on the earth's crust in such form and quantity and of such a grade or quality that it has reasonable prospects for economic extraction. Mineral resources can be categorized into three classes: fuel, metallic, and non-metallic. Fuel resources comprise coal, oil, and natural gas. Metals include such resources as gold, silver, iron, and copper. Lastly, non-metal resources include industrial minerals and construction aggregate. Industrial minerals include boron compounds, rare-earth elements, clays, limestone, gypsum, salt, and dimension stone. Construction aggregate includes sand and gravel, and crushed stone.

The Surface Mining and Reclamation Act of 1975 (SMARA) is the primary regulator surface mining in the state. The act requires the state geologist (California Geological Survey) to identify all mineral deposits in the state and to classify them based on their significance. SMARA defines a mineral deposit as a naturally occurring concentration of minerals in amounts or arrangement that under certain conditions may constitute a mineral resource. The concentration may be of value for its chemical or physical characteristics. The classification of these mineral resources is a joint effort of the State and local governments. It is based on geologic factors and requires that the State Geologist classify the mineral resources area as one of the four Mineral Resource Zones (MRZs), Scientific Resource Zones (SZs), or Identified Resource Areas (IRAs), described below:

- MRZ-1: A Mineral Resource Zone where adequate information indicates that no significant mineral deposits are present or likely to be present.

- MRZ-2: A Mineral Resource Zone where adequate information indicates that significant mineral deposits are present, or a likelihood of their presence and development should be controlled.

- MRZ-3: A Mineral Resource Zone where mineral resource significance is undetermined.

- MRZ-4: A Mineral Resource Zone where there is insufficient data to assign any other MRZ designation.

- SZ Areas: Containing unique or rare occurrences of rocks, minerals, or fossils that are of outstanding scientific significance shall be classified in this zone.

- IRA Areas: County or State Division of Mines and Geology Identified Areas where adequate production and information indicate that significant minerals are present.

According to the City's General Plan EIR, the majority of the City, including the proposed project site, is designated as MRZ-2 (City 2015). However, as discussed in the City's General Plan EIR, most of the areas within the City have been developed, lowering the potential for mineral resources to occur (City 2015b). The proposed project site is currently developed with a lumber yard and does not support mineral extraction activities. The surrounding existing residential land uses to the south and east would be incompatible with mining activities and hinder the ability of mining to occur at the site. Additionally, the project area is not zoned or designated for mineral resource recovery uses. Impacts would be less than significant.

XIII. Noise

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

HELIX prepared an Acoustical Analysis Report for the project in November 2021 (HELIX 2021a), which is included in its entirety as Appendix F of this IS/MND, the results of which are summarized below.

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

Less than Significant with Mitigation Incorporated. The proposed project would generate noise levels during project operation and construction as discussed below.

Operation

Operational On-site Noise Generation

The project would include heating ventilation and air conditioning (HVAC) units at ground-level locations adjacent to each proposed residence. Specific locations and planning data for the future HVAC units is not available at this stage of project design. This report assumes that HVAC units would be located on the sides of the proposed residences. Further, as discussed in the Acoustical Analysis Report, the modeling identified that a single unit typically generates a noise level of 56 dBA at a distance of 7 feet. Assuming HVAC units are located adjacent to the proposed residence, each unit is assumed to operate at distances of approximately 10 feet from the nearest residence to the east and 15 feet from the nearest residence to the south. At 10 feet, noise levels from a proposed HVAC unit would be 53 dBA. The UMC requires that HVAC noise levels not exceed the ambient baseline noise level by 5 dBA. For residential uses, HVAC units are prohibited from exceeding 5 dBA above 45 dBA nighttime limits. Nighttime noise levels from an HVAC unit would therefore exceed the 50 dBA nighttime limits without attenuation.

Existing concrete masonry unit walls are part of the existing conditions along the eastern and southern edges of the project. An approximately 10-foot wall is located adjacent to the project that would be

located adjacent to proposed residences, as shown in Figure 3. A wall of approximately 6 feet in height is currently located along the project's southern boundary. The project includes a minimum of a six-foot wall along the eastern boundary. The line-of-sight between the proposed HVAC units and nearby properties would therefore be broken by a solid barrier. These existing walls would reduce noise levels by the 3 dBA necessary to meet the UMC requirements. Impacts from the project's operations would therefore be less than significant.

Operational Off-site Transportation Noise Generation

The project would generate vehicular traffic that would utilize East Arrow Highway and have the potential to result in increased noise levels at existing single-family residences nearby. The Acoustical Analysis Report calculated the noise contour distances for existing and existing plus project conditions along East Arrow Highway. The existing and existing plus project traffic noise levels presented in the analysis are based on peak hour traffic volumes provided by Kimley Horn (2021).

The off-site roadway modeling represents a conservative analysis that does not consider topography or attenuation provided by existing structures. The results of this analysis for the community noise equivalent level (CNEL) at the nearest noise-sensitive land uses (NSLUs) to the roadway centerline of East Arrow Highway Street are shown in Table 6, *Off-site Traffic Noise Levels.*

Table 6
OFF-SITE TRAFFIC NOISE LEVELS

Roadway Segment	Distance to Nearest NSLU	CNEL at Distance to Nearest NSLU Existing	CNEL at Distance to Nearest NSLU Existing Plus Project	CNEL at Distance to Nearest NSLU Change from Existing	Direct Impact[1]
East Arrow Highway					
East of Project Driveway	35	64.5	64.8	+0.3	No
West of Project Driveway	60	61.0	61.2	+0.2	No

[1] A direct impact to off-site uses would occur if existing noise levels exceed 65 CNEL at single family residences and the project more than doubles (increases by more than 3 CNEL) the existing noise level.
NSLU = noise-sensitive land use; CNEL = Community Noise Equivalent Level

Impacts would be significant in areas where traffic noise at single-family residential uses exceeds the 65 CNEL maximum noise level specified in the City's General Plan Safety Element and implementation of the project results in a significant increase in noise levels, which is considered greater than a perceptible change of 3 CNEL over existing conditions. As shown in Table 6, noise levels would increase by 0.3 CNEL which would not be a perceptible increase in noise. In addition, noise levels are modeled below the 65 CNEL General Plan standard for both the existing and existing plus project scenarios. Therefore, impacts from project-generated traffic would be less than significant.

Operational Noise Exposure

The proposed project involves the construction of residential units that would be subject to the residential exterior and interior noise level requirements in the City's General Plan Safety Element of 65 CNEL and 45 CNEL, respectively. As discussed in item XI b), modeling completed for the project's Acoustical Analysis Report indicates that the project would be compatible with the exterior noise limit of 65 CNEL but may exceed the interior noise limit of 45 CNEL resulting in a significant land use impact by

conflicting with the General Plan Safety Element. With implementation of mitigation measure LU-1, this impact would be reduced to a less than significant. However, it is noted while this is a land use impact (conflicting with a policy adopted for the purpose of avoiding or mitigating an environmental effect) that this is not a noise-related impact under CEQA as it is not an impact of the project on the existing environment.

Construction

On-site Construction Noise Generation

Construction of the project would require site clearing, demolition of existing structures, grading, installation of underground utilities/infrastructure, construction of new buildings, paving, and architectural coating. The magnitude of the noise impact would depend on the type of construction activity, equipment, duration of each construction phase, distance between the noise source and receiver, and any intervening structures. Construction would generate elevated noise levels that may disrupt nearby residences to the east and south of the project site. Construction would take place at varying distances from residences, depending on the construction phase. Construction equipment locations would vary within a given day, with the approximate average distance from the project site to nearby residences being 200 feet. For the purposes of this report, construction noise is calculated at the 100-foot distance, or the approximate distance from the on-site buildings to be demolished to nearby residences. Table 7, *Construction Equipment Noise Levels*, provides the 100-foot distance noise levels for equipment anticipated to be used for general construction activities.

Table 7
CONSTRUCTION EQUIPMENT NOISE LEVELS

Unit	Percent Operating Time	L_{MAX} at 50 feet	dBA L_{EQ} at 50 feet
Backhoe	40	71.5	67.6
Compactor	20	77.2	70.2
Compressor	40	71.6	67.7
Concrete Mixer Truck	40	72.8	68.8
Concrete Pump Truck	20	75.4	68.4
Dozer	40	75.6	71.7
Dump Truck	50	70.4	66.5
Grader	40	79.0	75.0
Excavator	40	74.7	70.7
Front End Loader	40	73.1	69.1
Paver	50	71.2	68.2
Roller	20	74.0	67.0
Loader/Dump Truck	N/A	73.1	71.0

Source: HELIX 2021a
L_{MAX} = maximum noise level; dBA = A-weighted decibel; L_{EQ} = equivalent sound level

The UMC prohibits construction and building work between the hours of 6:00 p.m. and 7:00 a.m. on weekdays. Project construction would therefore only occur during daytime hours. The construction equipment shown in Table 7 would exceed the 55 dBA daytime baseline ambient noise level for residential land uses as defined in the City Municipal Code by over 10 dBA L_{EQ}. The modeling results do not include existing noise barriers, such as the approximately 10-foot and 6-foot concrete masonry unit

walls located on the project's eastern and southern boundaries, respectively. These walls are solid with no gaps or perforations and would therefore serve to reduce noise levels from construction. However, construction equipment exhaust pipes may be located approximately 7 to 8 feet above ground, so the barriers may not adequately reduce noise levels. To reduce impacts on nearby residences from construction noise, implementation of mitigation measure NOI-1 would reduce the potential impact less than significant.

NOI-1 **Construction Noise Management Plan.** Noise levels from project-related construction activities shall not exceed 65 dBA, defined as 10 dBA above the daytime baseline ambient noise levels defined in the City Municipal Code (55 dBA for residential uses), as measured at the neighboring land use. A Construction Management Plan that describes the measures included on the construction plans to ensure compliance with the noise limit shall be prepared by the project applicant and submitted to the City of Upland for approval prior to issuance of the grading permit. The following measures may be included to reduce construction noise:

- Construction equipment to be properly outfitted and maintained with manufacturer-recommended noise-reduction devices.
- Diesel equipment to be operated with closed engine doors and equipped with factory-recommended mufflers.
- Mobile or fixed "package" equipment (e.g., arc-welders and air compressors) to be equipped with shrouds and noise control features that are readily available for that type of equipment.
- Electrically powered equipment to be used instead of pneumatic or internal-combustion powered equipment, where feasible.
- Unnecessary idling of internal combustion engines (e.g., in excess of 5 minutes) to be prohibited.
- Material stockpiles and mobile equipment staging, parking, and maintenance areas to be located as far as practicable from noise sensitive receptors.
- The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.
- No project-related public address or music system shall be audible at any adjacent sensitive receptor.
- Temporary sound barriers or sound blankets may be installed between construction operations and adjacent noise-sensitive receptors. Due to equipment exhaust pipes being approximately 7 to 8 feet above ground, a sound wall at least 10 feet in height above grade as measured at the neighboring parcels, would be located along the southern property line between the project and neighboring residences to mitigate noise levels to within acceptable levels. If barriers are to be used, the sound barrier should be constructed of a material with a minimum weight of two pounds per square

foot with no gaps or perforations and remain in place until the conclusion of demolition, grading, and construction activities.

- The project applicant shall notify residences within 100 feet of the project's property line in writing within one week of any construction activity such as demolition, concrete sawing, asphalt removal, and/or heavy grading operations. The notification shall describe the activities anticipated, provide dates and hours, and provide contact information with a description of a complaint and response procedure.

- The on-site construction supervisor shall have the responsibility and authority to receive and resolve noise complaints. A clear appeal process for the affected resident shall be established prior to construction commencement to allow for resolution of noise problems that cannot be immediately solved by the site supervisor.

Construction Traffic Noise

As discussed in the Acoustical Analysis Report, it is anticipated that 170 round trips would be required for soil import over the course of 10 days during the grading phase of construction, which would equate to 17 round trips per day. Over the course of an eight-hour construction day, it is assumed four haul truck trips would occur per hour, including the round trips for each truck. This daily traffic level associated with soil export is anticipated to be the highest daily traffic level associated with project construction.

The existing traffic volume and the increased traffic volume from construction were modeled for East Arrow Highway. Receivers were modeled at 35 feet from the roadway centerline (the approximate distance to the nearest single family residential NSLUs), and construction haul trips were modeled as heavy trucks. As presented above in Table 6, the modeled existing traffic noise level along this segment of East Arrow Highway is 64.5 CNEL. The addition of the project's haul truck trips during the grading phase of construction would increase noise levels to 64.8 CNEL, which represents a 0.3 CNEL increase. This would not be a perceptible increase in noise levels, and noise levels would remain below the 65 CNEL maximum exterior noise limit guideline for residential uses set forth in the City's General Plan Noise Element. Further, this increase in noise from haul trucks would be temporary (estimated at 10 days) and would cease upon the completion of construction. Therefore, impacts from construction traffic noise would be less than significant.

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

Less than Significant Impact. Excessive ground-borne vibration would occur if construction-related ground-borne vibration exceeds the "strongly perceptible" vibration annoyance potential criteria criterion for human receptors of 0.1 inch per second peak particle velocity (PPV) or the damage potential criteria criterion to relatively old residential structures 0.5 inch per second PPV for continuous/frequent intermittent construction sources (such as impact pile drivers, vibratory pile drivers, and vibratory compaction equipment), as specific by Caltrans (2020). A possible source of vibration during general project construction activities would be a vibratory roller, which may be used for compaction of soil beneath building foundations and could be used within 50 feet of off-site residences. Most usage of a vibratory roller, however, would occur at distances greater than 50 feet from any single residence due to the mobile nature of its use across the project site. A vibratory roller would create approximately 0.210 inch per second PPV at a distance of 25 feet (Caltrans 2020). A

0.210 inch per second PPV vibration level would equal 0.098 inch per second PPV at a distance of 50 feet.[4] This would be lower than the structural damage impact to older structures of 0.5 inch per second PPV and the "strongly perceptible" impact for humans of 0.1 inch per second PPV. Additionally, off-site exposure to such ground-borne vibration would be temporary as it would be limited to the short-term construction period. Therefore, even though vibration may be perceptible at nearby residences, temporary impacts associated with the roller (and other potential equipment) would be less than significant. As a residential development, the project would not generate excessive ground-borne vibration during operations. As such, impacts related to groundborne vibration would be less than significant.

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

Less than Significant Impact. The project is subject to some distant aircraft noise. The nearest airports are Ontario International Airport, located approximately three miles to the south and Cable Airport, located approximately three miles to the west. According to the Ontario International Airport's ALUCP, the project site is not within the airport's 60 CNEL noise impact zone (Mead & Hunt 2011). Similarly, the project site is not located within a noise impact zone for Cable Airport (Mead & Hunt 2015). Therefore, at these distances, no effects related to airport noise would occur at the project site, and impacts would be less than significant.

XIV. Population and Housing

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

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Less than Significant Impact. Growth inducing impacts are caused by those characteristics of a project that foster or encourage population and/or economic growth, such as new housing (direct) or creation of a new job center or the expansion of infrastructure to increase capacity (indirect).

[4] Equipment PPV = Reference PPV * $(25/D)^n$ (inches per second), where Reference PPV is PPV at 25 feet, D is distance from equipment to the receiver in feet, and n = 1.1 (the value related to the attenuation rate through the ground); formula from Caltrans 2013.

The proposed project would introduce 64 new single family detached residential homes, which would directly induce growth in the project area. According to the U.S. Census Bureau, the average household size in the City is 2.82 people (U.S. Census Bureau 2021). Applying this rate, an additional 64 units could result in a population increase of approximately 181 people. Conservatively, if all 64 homes were occupied by new residents, the project would represent an increase in the City's population by 0.2 percent.

The City's General Plan designates the project site as LI-BP and is zoned as LI, and the project would require a General Plan Amendment and zone change to accommodate the proposed residential land uses. As discussed in Sections III and XI, a RHNA was prepared for the City in accordance with California law that requires local governments to facilitate and encourage the production of housing to accommodate population and employment growth. The 2021-2029 RHNA target for Upland is 5,686 homes distributed among various income levels. In an effort to achieve this goal the City has recognized the potential for the project site to accommodate residential land uses. Thus, it is recognized that there is a need for additional housing in the City and there is the potential that this project may provide housing. Therefore, while the project would directly induce population in the area through the construction of new homes, this development is consistent with the City's intent to provide additional residential development on what are deemed underutilized properties. Given that the project would provide a portion of the RHNA allocation, it would not represent a significant impact due to unanticipated growth. Direct impacts are less than significant.

The project does not involve activities or features that would indirectly induce growth. The project does not propose the installation of utility infrastructure that would expand beyond the project site. Improvements to the current site access would occur by refurbishing the existing driveway along the project's frontage on East Arrow Highway to a full-access driveway and the secondary emergency access along North 14th Avenue. However, the project does not include off-site roadway improvements. Therefore, the project would not indirectly contribute to substantial growth. Indirect impacts would be less than significant.

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

No Impact. The proposed project includes the construction 64 two-story single family detached residential homes on land that is not currently used for housing. The project site is currently developed with a lumber yard and does not include people or housing. Therefore, the proposed project would not remove housing and would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. No impacts would occur.

XV. Public Services

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
a) Fire protection?	☐	☐	■	☐
b) Police protection?	☐	☐	■	☐
c) Schools?	☐	☐	■	☐
d) Parks?	☐	☐	■	☐
e) Other public facilities?	☐	☐	■	☐

a) Fire protection?

Less than Significant Impact. Division 1 (West Valley) of the SBCFD provides fire protection services in the project area. Out of the five West Valley Stations in Upland, Station 161, 0.9 mile west of the project site, serves the project area. The majority of calls for the West Valley are related to emergency medical aid (9,147), followed by traffic collisions (937) and investigations/alarms (571). They also respond to other fires (310), hazardous fires (190), public services (160), vehicle fires (134), residential fires (94), vegetation fires (22), and rescues (12) to lesser degrees (SBCFD 2021).

The proposed project includes the construction of 64 single-family homes in a lot that is currently used as a lumber yard. The project would introduce approximately 181 residents to the site; however, the SBCFD currently provides fires protection services to the lumber yard. Therefore, while the types of calls may differ from those that would occur with the existing light industrial/lumber yard land uses, the project would not be adding new land to the Division 1's jurisdiction that was previously not serviced.

The project does not represent a unique land use or type of construction that would require additional SBCFD resources, would not have a significant impact involving fire response times, and would not otherwise create a substantially greater need for fire protection services than already exists. The project applicant is required to submit project plans to SBCFD for review and plan check approval with respect to applicable fire protection standards set forth in Chapter 15.15.010 of the UMC and approval is required prior to the issuance of building permits. Through this routine process, SBCFD confirms that the project meets all of the applicable fire codes set forth by the State Fire Marshal and the City's building code, including sufficient fire flow and emergency access for fire engines and crews. Additionally, the project is subject to UMC Chapter 3.44, which requires the project applicant to pay to the City a capital impact fee, including fees for fire services. The City Council determined that a development impact fee is needed in order to finance public improvements and for a development to pay its fair share of the

construction costs of these improvements. Development impact fees for fire are established upon issuance of all building permits for development.

Implementation of the proposed project may result in an increase and a change in the types of calls for emergency services; however, the size and location of the project would not place an undue hardship on the fire department since they are presently servicing the areas surrounding the site and the project is subject to the capital impact fee. Therefore, implementation of the proposed project would not exceed the capacity of the SBCFD to serve the site with existing fire protection services and resources. Impacts would be less than significant.

b) Police protection?

Less than Significant Impact. The Upland Police Department provides law enforcement services in the project area. The Upland Police Department station is located at 1499 West 13th Street, approximately 2.7 miles northwest of the project site. According to the Upland Police Department 2020 Annual Report, the response times have decreased in 2020 (Upland Police Department 2021) from prior recent years. The proposed project includes the construction of 64 single-family homes in a lot that is currently used as a lumber yard. The project may result in the introduction of approximately 181 residents to the site. Conservatively, if all 64 homes were occupied by new residents, the project would represent an increase in the City's population by 0.2 percent. Typical of residential developments, such calls for services would be in relation to property crimes or crimes against persons, however these types of crimes are not considered unique.

The project is subject to UMC Chapter 3.44, which requires the project applicant to pay to the City a capital impact fee, including fees for police services. The City Council determined that a development impact fee is needed in order to finance public improvements and for a development to pay its fair share of the construction costs of these improvements. Development impact fees for police services are established upon issuance of all building permits for development.

Additionally, the Upland Police Department currently serves the existing project site, so the project would not be adding new land to the Upland Police Department's jurisdiction that was previously not serviced. Therefore, the construction of 64 homes would not require the need for new or physically altered police protection facilities. Impacts would be less than significant.

c) Schools?

Less than Significant Impact. The project includes the development of 64 single-family homes, some of which may house school-aged children. The project site is located within the boundaries of the Upland Unified School District (UUSD), which serves grades pre-school through 12.

As discussed in item XIV a), using approved planning forecasts, the project would result in 181 new persons in the project area, some of which may be school-age children. There would be an increase in the demand for UUSD school services if the homes are ultimately occupied by people from outside the City or County. According to the U.S. Census Bureau, on average, approximately 16.1 percent of the population of the City was between the ages of 5 and 18 (U.S. Census Bureau 2021). Applying this rate, 16.1 percent of the 181 people that would be introduced due to the project would equate to approximately 29 people between the ages of 5 and 18 that would require school services. The local schools that are assigned to serve the project site are Baldy View Elementary School for grades

kindergarten through 6, Upland Junior High School for grades 7 through 8, and Upland High School for grades 9 through 12.

California Education Code Section 17620 and CCR Section 65995 allow school districts to levy fees on residential and/or commercial/industrial construction projects within a school district's boundaries. The State Allocation Board sets the per-square-foot Level I school impact fees (developer fees) every two years.

The project would be required to pay the current statutory developer fee (currently $4.08 per square foot of residential construction) as a condition of building permit approval. The Leroy Greene School Facilities Act of 1998 established the use of developer fees as mitigation for school districts in California. Developer fees may be used for multiple purposes, including to fund construction or reconstruction of school facilities, and to fund costs attributable to the increased demand for public facilities reasonably related to the development in order to refurbish existing facilities to maintain the existing level of service or achieve an adopted level of service that is consistent with a general plan. Thus, the project's school impacts are fully mitigated through the payment of the required developer impact fee that has been adopted at the time of project approval. Impacts would be less than significant.

d) Parks?

Less than Significant Impact. The City's Recreation and Community Services Division currently operates and maintains 13 parks, including 6 neighborhood parks, 5 community parks, and 2 mini parks, totaling 118.5 acres of park land. These parks provide an assortment of amenities including amphitheaters, ballparks, basketball courts, barbeque areas, dog parks, trails, horseshoe pits, open grass fields, picnic tables, playgrounds, restrooms, soccer fields, skate parks, and volleyball courts. The City has an established parkland-to-population requirement of 3.0 acres of parkland per 1,000 persons (City 2015b). The City's 2020 population is 79,040 persons. In order to meet the City's parkland-to-population ratio, the City would need 237 acres of parkland, representing an existing parkland deficiency of 118.5 acres The project includes 8,904 sf of common open space, providing onsite park land opportunities for the future residents. Specifically, the project site includes park amenities onsite that consist of recreation play areas, tot lot, play equipment, fitness stations, picnic tables, barbecues, and benches. Additionally, the area provided for emergency access along North 14th Avenue would also be landscaped. However, while the inclusion of onsite amenities would reduce impacts on local parks, project residents would still use parks within the City's park system. The Quimby Act authorizes the legislative body of a city or county to require the dedication of land or to impose fees for park or recreational purposes as a condition of the approval of a tentative map, if specified requirements are met. As such, UMC Section 3.44.020 establishes a park acquisition and development fee on issuance of all building permits for development within the boundaries of the City to pay for acquiring of and improvement to land designated for park use, which would contribute to reducing potential parkland impacts on a project-by-project basis. The project would be required to pay the applicable fee prior to the issuance of occupancy permits. Impacts would be less than significant.

e) Other public facilities?

Less than Significant Impact. Future residents of the developed project may occasionally visit other public facilities such as senior centers, community centers, pools, and libraries. Each of these facilities are intended to serve the general public. The added population from the proposed project would have a less than significant impact on the facilities, as only a small percentage of the project's residents would

visit a particular facility on a given day. The proposed project would not individually result in a need to construct new types of other public facilities. Impacts would be less than significant.

XVI. Recreation

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	■	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	■	☐

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

Less than Significant Impact. As discussed in item XV d), the City Recreation and Community Services Division currently operates and maintains 13 parks comprising a total of approximately 118.5 acres, approximately 50 percent of the park land that is required to meet the City's goal of 3.0 acres of parkland per resident. The project would add 64 new residences which would introduce approximately 181 new residents to the area that would likely use nearby parks. The project includes 8,904 sf of common open space, providing onsite park land opportunities for the future residents. Specifically, the project site includes park amenities onsite that consist of recreation play areas, tot lot, play equipment, fitness stations, picnic tables, barbecues, and benches. Additionally, the area provided for emergency access along North 14th Avenue would also be landscaped. However, while the project would create onsite recreational opportunities, residents would also use recreational facilities within the City's system. As noted, the City is deficient in meeting its current goal of allocating 3.0 acres of park land per resident. If future project residents relocate from outside of the City, this would place a greater demand upon the system and may lead to deterioration. UMC Section 3.44.020 establishes a park acquisition and development fee on issuance of all building permits for development within the boundaries of the City to pay for acquiring of and improvement to land designated for park use, which would contribute to reducing potential parkland impacts on a project-by-project basis. Implementation of the project would not significantly adverse existing parks and recreational facilities. Impacts would be less than significant.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less than Significant Impact. The project site includes park amenities onsite that consists of two open lawn play areas, a tot lot, and picnic areas. The impacts of these features are evaluated in the greater context of the project as a whole. If conservatively considering all of the approximately 181 residents would relocate from out of town, the project would exacerbate the City's demand for recreational facilities through contributing to its parkland deficiency. The City as a whole has not met its established goal and will need to provide additional park land City-wide to satisfy the existing deficiency. The project

would pay the park land acquisition fee per Section 3.44.020 of the UMC, which would in part fund the provision of new parks.

As previously discussed, the proposed project would include 8,904 sf of common open space, providing onsite park land opportunities for the future residents. In particular, the project would include recreation play areas, tot lot, play equipment, fitness stations, picnic tables, barbecues, and benches. Additionally, the area provided for emergency access along North 14th Avenue would also be landscaped. Potential impacts resulting from construction of such space is analyzed in the entirety of this IS/MND. The project does not include the construction or expansion of public recreational facilities which might have an adverse physical effect on the environment. Impacts would be less than significant.

XVII. Transportation and Traffic

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

The discussion below is based on the TIA prepared for the project by Kimley Horn (2021), attached to this IS/MND as Appendix G.

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

Less than Significant Impact. The TIA included an analysis to address the project's operational access and circulation needs for vehicles, bicycles, and pedestrians per guidelines outlined in the City's Traffic Impact Analysis Guidelines (City 2020). The City's General Plan Circulation Element, sets for forth the policies guiding circulation, including roadway, bicycle, pedestrian, and transit. The project would not conflict with the City's General Plan Circulation Element as summarized below.

Roadways

The policies of the City's General Plan Circulation Element identify that LOS D is the acceptable operating condition within the project area. LOS is the term used to denote the different operating conditions that occur under various traffic volume loads. LOS designations range from A to F, with LOS A representing the best operating conditions and LOS F representing the worst operating conditions.

Intersections and roadway segments operating at LOS D or better are considered to operate at acceptable levels of service in relation to the policies outlined in the City's Circulation Element. Roadway

segment capacity and LOS standards are generally used as long-range planning guidelines to determine the functional classification of roadways.

The roadways included in the TIA study area include I-10, I-15, Arrow Highway, Campus Avenue, San Bernardino Road, North 11th Avenue, and Grove Avenue. Under both existing conditions and opening year (2024) conditions within the project, all intersections in the study area currently operate at LOS C or better during the commuter peak periods, and therefore consistent with the City's Circulation Element.

In particular, in accordance with General Plan Policy CIR-1.5, which requires that a project's traffic impacts be disclosed and if applicable, mitigation measures be implemented, the TIA determined that the project is anticipated to generate 476 daily trips, including 30 a.m. peak hour trips (7 inbound, 23 outbound) and 36 p.m. peak hour trips (23 inbound, 13 outbound). With the addition of the trips generated by the project, the intersections within the study area would continue to operate at LOS C or better during commuter peak periods under opening year (2024) conditions and thus does not conflict with Policy CIR-1.5. In addition, the project would be designed in accordance with General Plan Policy CIR-1.7 which requires that driveway access points onto arterial roadways be minimized and located to ensure the smooth and safe flow of vehicles and bicycles. The project drive is designed to accommodate both the project residents and guests by providing two entrance lanes, so traffic would not back up onto East Arrow Highway. Impacts would be less than significant.

Bicycle Facilities

The General Plan Circulation Element contains policies regarding bicycle facilities, most are programmatic, to be implemented on a City-wide scale, such as a comprehensive bicycle system. There are no policies that directly apply to a single-family residential project; however, project infrastructure would support Policy CIR-2.11, which is the requirement to adhere to the American Disabilities Act (ADA) that maintains roadways that facilitate walking and bicycling at intersections and other key crossing locations. While the project would not result in any off-site roadway improvements, the project drive and all internal circulation would be ADA compliant.

On Arrow Highway and Campus Avenue, there are existing Class III bicycle facilities with plans to upgrade to Class II according to the City's General Plan. On Foothill Boulevard, there are existing Class II bicycle facilities. On the Southern Pacific Trail, there are existing Class I bicycle facilities. The project does not propose to construct new bicycle facilities or remove existing bicycle facilities. The project would likely add new users to nearby facilities; however, the addition of 181 persons would not result in significant adverse impacts to existing bicycle facilities. Impacts would be less than significant.

Pedestrian Facilities

Similar to bicycle policies, the General Plan Circulation Element contains policies regarding pedestrian facilities, most are programmatic, to be implemented on a City-wide scale. There are no policies that are applicable to the project.

There are existing sidewalks along the project frontage and the entirety of Arrow Highway, from Grove Avenue in the east to San Bernardino Road in the west. Grove Avenue and San Bernardino Road also have existing sidewalks. Foothill Boulevard and Euclid Avenue between Foothill Boulevard and the Southern Pacific Trail are classified as Pedestrian Multimodal Priority Areas in the City's General Plan. The project does not propose to remove existing pedestrian facilities. Construction of pedestrian

facilities would be limited to internal sidewalks within the proposed neighborhood. The project would likely add new users to nearby facilities; however, the addition of 184 persons would not result in significant adverse impacts to existing pedestrian facilities. Impacts would be less than significant.

Public Transit

The General Plan Circulation Element contains policies to promote efficient public transit; however, these policies are directed towards regional integration and City-wide land use plans. There are no policies that would be applicable to the project.

Public transit is provided in the project area through OmniTrans Route 85, which operates between the Chino Civic Center and Chaffey Transit Center within the Cities of Upland, Rancho Cucamonga, Montclair, Ontario, and Chino, and primarily travels in an east-west direction. There are multiple bus stops near the project site along Arrow Highway and San Bernardino Road. The nearest bus stop to the project site is located along the intersection of San Bernardino Road and Arrow Highway, approximately 0.5 mile west of the site. The project does not propose to construct new public transit facilities or remove existing public transit facilities. The project would likely add new users to nearby facilities; however, the addition of 181 persons to the area would not result in significant adverse impacts to existing public transit facilities. Impacts would be less than significant.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Less than Significant Impact. The TIA included a Vehicle Miles Traveled (VMT) assessment for the project. The assessment utilized methodologies from the Governor's Office of Planning and Research Technical Advisory developed to assist with implementation of SB 743, which resulted in a shift in the measure of effectiveness for determining transportation impacts from LOS and vehicular delay to VMT. The City has adopted VMT thresholds of significance, which are included in the City's Traffic Impact Analysis Guidelines (City 2020). The City's Traffic Impact Analysis Guidelines also include three types of screenings that lead agencies can apply to effectively screen projects from project-level assessment. If a project meets the criteria of at least one of the screening criteria types, the project is assumed to result in less than significant VMT impacts. The three screening categories are broadly classified as Transit Priority Area (TPA) screening, Low VMT Area screening, and Project Type screening. According to the Traffic Impact Analysis prepared for the project, the project does not meet the criteria of the TPA screening or Project Type screening. However, the proposed project was determined to be located within a low VMT generating traffic analysis zone with a total zone VMT of 22.9, which is approximately 27 percent lower than the regional average (Kimley Horn 2021). Therefore, the proposed project meets the criteria of the Low VMT Area screening. Impacts would be considered less than significant.

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

Less than Significant Impact. There would be no hazardous design features or incompatible uses introduced as a result of the project. The project is a typical residential subdivision that is comparable to the surrounding land uses to the south and east. No unique roadway features, traffic patterns, or incompatible vehicles would be introduced as part of the development. The project proposes to improve access to the site by refurbishing the existing driveway along the project's frontage on East Arrow Highway to a full-access driveway, providing access to residents and visitors. The internal street network would be capable of providing safe and efficient access to and from each of the 64 proposed residences. Additionally, the internal roadways would be designed with 24-foot rights-of-way, in accordance with

City standards and would have sufficient capacity to support the residential traffic. In addition, the SBCFD and City Public Works Department would review the circulation to ensure compliance with SBCFD standards (turning radii, street widths,) and traffic safety standards (line of sight, traffic calming, etc.).

As a result, the project would not substantially increase hazards due to a geometric design feature or incompatible uses. Impacts would be less than significant.

d) Result in inadequate emergency access?

Less than Significant Impact. Once operational, as discussed above in item XVII c), access to the project site would be improved with project implementation by refurbishing the existing driveway along the project's frontage on East Arrow Highway to a full-access driveway. A secondary dedicated emergency access would be via North 14th Avenue. The SBCFD and City Public Works Department would review the circulation to ensure compliance with SBCFD standards (turning radii, street widths,) and traffic safety standards (line of sight, traffic calming, etc.).

During construction of the project, heavy construction-related vehicles could interfere with emergency response to the site or emergency evacuation procedures in the event of an emergency (e.g., vehicles traveling behind the slow-moving truck). However, such trips would be brief and infrequent. Additionally, although traffic would temporarily need to be directed around the construction, the project construction would not require road closures. Public roadways would remain open for standard traffic and emergency response vehicles for the duration of construction. The project would not result in inadequate emergency access. Impacts would be less than significant.

XVIII. Tribal Cultural Resources

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

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

i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC Section 5020.1(k)?

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

Less than Significant Impact. As discussed above under item V a), a records search request was submitted to the SCCIC on September 1, 2021. The SCCIC record search results identified 12 previous cultural resource studies within the record search limits, with one study intersecting a portion of the project site. The SCCIC record search contained 106 previously recorded cultural resources within a half-mile radius of the project site; however, none of the resources are recorded within the project site. All but one of the resources are historic buildings, with the single outlier being a prehistoric lithic scatter. Additionally, a Sacred Lands File search for the project APE completed by the NAHC yielded negative results. In accordance with the requirements of AB 52 and SB 18, the City has initiated correspondence and sent out notification letters regarding the project to Native American Tribes traditionally and

culturally affiliated with the project area (Gabrieleno Band of Mission Indians - Kizh Nation, Gabrieleno/Tongva San Gabriel Band of Mission Indians, Gabrielino Tongva Indians of California Tribal Council, Gabrielino/Tongva Nation, Gabrielino-Tongva Tribe, Morongo Band of Mission Indians, Quechan Tribe of the Fort Yuma Reservation, San Manuel Band of Mission Indians, Santa Rosa Band of Mission Indians, Serrano Nation of Mission Indians, and Soboba Band of Luiseño Indians) on January 25, 2022.

Four tribes responded to the City's notification letter: Gabrieleno Band of Mission Indians – Kizh Nation (Kizh Nation), Fort Yuma Quechan Tribe(Quechan Tribe), Soboba Band of Luiseño Indians (Soboba), and the San Manuel Band of Mission Indians (SMBMI). Kizh Nation provided a response on February 2, 2022 via email to request consultation with the City. Consultation between the City and Kizh Nation was conducted on May 17, 2022 via teleconference. During consultation, Kizh Nation indicated that the project area is considered an important cultural landscape due to prehistoric trade corridors, transportation corridors, sacred areas near waterways, the intersection of two large village sites, association to an important historic event, such as the massacre at Red Hill, and the potential to encounter buried objects related to cultural patrimony and human remains during project related construction. Although no tribal cultural resources were identified within the project site, Kizh Nation recommended implementing Native American monitoring to mitigate these potential impacts. These mitigation measures (MM) are implemented as TCR-1 to TCR-3 to implement a Kizh Nation Native American monitor, as well as Kizh Nation's procedures and protocols regarding the treatment and disposition of any tribal cultural resources discovered within the project site.

The Quechan Tribe responded via email on February 9, 2022 to indicate that the tribe has no comments on the project and wishes to defer to more local tribes. Similarly, Soboba commented on April 20, 2022 via email to defer to the San Gabriel Band of Mission Indians. Soboba provided the contact information to Chief Anthony Morales. With the assistance of HELIX archaeologist Kassie Sugimoto, The City reached out to Chief Morales on April 21, 2022 via telephone. Chief Morales indicated that the project site is sensitive to village sites, trade routes, and human remains important to the San Gabriel Band of Mission Indians. Based on their knowledge of tribal cultural resources within the vicinity and the results of the archaeological technical study, the tribe agrees that the project should implement archaeological and tribal monitoring. The tribe wishes to request that the project implement a mitigation measure that requires tribal monitors from the San Gabriel Band of Mission Indians during all ground disturbing project activities. Additionally, the tribe requested to be informed of the project activities as the project goes through environmental review. Based on these comments, the City implemented MM TCR-4 to include a Native American monitor from the San Gabriel Band of Mission Indians.

Furthermore, SMBMI also provided an email response on March 3, 2022 to request additional info regarding the project. The City complied with SMBMI's request on April 12, 2022 by providing the Cultural Resources report prepared by HELIX, a geotechnical report prepared for the project, and project plans shoing the depth of the proposed disturbances. Upon reviewing these materials, SMBMI requested the project implement archaeological monitoring, Native American monitoring, and the SMBMI policies and procedures regarding the treatment and disposition of tribal cultural resources, prehistoric resources, or historic-era resources that are considered sacred to SMBMI. These measures are implemented as MM TCR- 5 and TCR-6.

Due to the highly disturbed nature of the project site, the previous ground disturbance, and the negative results of the Sacred Land Files search, there are no existing tribal cultural resources within the project site. However, consultation with Kizh Nation, the San Gabriel Band of Mission Indians, and SMBMI indicates that the project is sensitive to buried tribal cultural resources. Based on these tribal concerns,

there is still a possibility for subsurface resources to be impacted. This potential impact could result in significant impacts to tribal cultural resources. However, these impacts can be reduced to a less than significant level by implementing Native American monitoring, implementing an approved treatment plan by all consulting tribes (Kizh Nation, the San Gabriel Band of Mission Indians, and SMBMI) in the event tribal cultural resources are discovered during project related activities, and by implementing the standard policies and procedures regarding sacred lands and tribal cultural resources. These mitigated efforts are implemented into the project under MM TCR- 1 through TCR-6. Implementation of these measures will reduce this potential impact to less than significant level. As such, potential impacts to cultural resources will be reduced to less than significant.

Mitigation Measures- Gabrieleno Band of Mission Indians - Kizh Nation

TCR-1 Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities

A. The project applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.

B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.

C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or "TCR"), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.

D. On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.

E. Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and retain all discovered TCRs in the form and/or manner the Tribe

deems appropriate, in the Tribe's sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural and/or historic purposes.

TCR-2 Unanticipated Discovery of Human Remains and Associated Funerary Objects

A. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.

B. If Native American human remains and/or grave goods discovered or recognized on the project site, then all construction activities shall immediately cease. Health and Safety Code Section 7050.5 dictates that any discoveries of human skeletal material shall be immediately reported to the County Corner and all ground-disturbing activities shall immediately halt and shall remain halted until the coroner has determined the nature of the remains. If the coroner recognizes the human remains to be those of a Native American or has reason to believe they are Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission, and Public Resources ode Section 5097.98 shall be followed.

C. Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).

D. Construction activities may resume in other parts of the project site at a minimum of 200 feet away from discovered human remains and/or burial goods, if the Kizh determines in its sole discretion that resuming construction activities at that distance is acceptable and provides the project manager express consent of that determination (along with any other mitigation measures the Kizh monitor and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5(f).)

E. Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods. Any historic archaeological material that is not Native American in origin (non-TCR) shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, it shall be offered to a local school or historical society in the area for educational purposes.

F. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

TCR-3 Procedures for Burials and Funerary Remains

A. As the Most Likely Descendant ("MLD"), the Koo-nas-gna Burial Policy shall be implemented. To the Tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, Tribal Traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains.

B. If the discovery of human remains includes four or more burials, the discovery location shall be treated as a cemetery and a separate treatment plan shall be created.

C. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Cremations will either be removed in bulk or by means as necessary to ensure complete recovery of all sacred materials.

D. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The Tribe will make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that burials will be removed.

E. In the event preservation in place is not possible despite good faith efforts by the project applicant/developer and/or landowner, before ground-disturbing activities may resume on the project site, the landowner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects.

F. Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the project site but at a location agreed upon between the Tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered.

G. The Tribe will work closely with the project's qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the Tribe, documentation shall be prepared and shall include (at a minimum) detailed descriptive notes and sketches. All data recovery data recovery-related forms of documentation shall be approved in advance by the Tribe. If any data recovery is performed, once complete, a final report shall be submitted to the Tribe and the NAHC. The Tribe does NOT authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains.

<u>Mitigation Measures- San Gabriel Band of Mission Indians</u>

TCR-4 Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities

A. The project applicant/lead agency shall retain a Native American Monitor from or approved by the San Gabriel Band of Mission Indians. The monitor shall be retained prior to the commencement of any ground-disturbing activity for the subject project at all project locations.

B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.

C. On-site tribal monitoring shall continue until the San Gabriel Band of Mission Indians, in concurrence with project archaeologist, agrees that monitoring activities may be reduced or concluded.

D. Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the San Gabriel Band of Mission Indians monitor.

E. Upon discovery of any TCRs, prehistoric resources, or historic-era resources considered significant by the San Gabriel Band of Mission Indians, the project must produce a treatment plan to be reviewed and agreed upon by the San Gabriel Band of Mission Indians prior to executing testing or treatment efforts.

Mitigation Measures- San Manuel Band of Mission Indians

TCR-5 Cultural Resources

A. In the event that cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed within TCR-6, regarding any pre-contact and/or historic-era finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment.

B. If significant pre-contact and/or historic-era cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to SMBMI for review and comment, as detailed within TCR-6. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.

C. If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project.

TCR-6 SMBMI Tribal Cultural Resources

A. The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in TCR-5, of any pre-contact and/or historic-era cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment.

Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on-site.

B. Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to SMBMI. The Lead Agency and/or applicant shall, in good faith, consult with SMBMI throughout the life of the project. Note: San Manuel Band of Mission Indians realizes that there may be additional tribes claiming cultural affiliation to the area; however, San Manuel Band of Mission Indians can only speak for itself. The Tribe has no objection if the agency, developer, and/or archaeologist wishes to consult with other tribes in addition to SMBMI and if the Lead Agency wishes to revise the conditions to recognize additional tribes.

XIX. Utilities and Service Systems

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

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

Less than Significant Impact. The project involves localized infrastructure improvements and connections to accommodate site development. An existing six-inch water line on site would be

removed and realigned with an eight-inch water line lateral connection to East Arrow Highway. Wastewater discharges from the site would occur through internal sewer mains connecting to an existing eight-inch sewer line in North 14th Avenue. An existing eight-inch sewer line would be abandoned with a new eight-inch sewer line that would be rerouted through the site. The on-site storm system would convey runoff through the street curbs and catch basins to a 3,300-sf underground vault system to infiltrate on site. Any high flows would be conveyed through a new off-site proposed system from the site through North 14th Avenue and 9th Street and connect to an existing San Bernardino County Flood Control District structure at Bodenhamer Street. Additionally, the existing overhead electrical lines that traverse the property would be undergrounded and other local connections would occur to municipal infrastructure. Natural gas and telecommunications would be able to serve the project site from existing infrastructure without requiring new or expanded facilities offsite.

While there would be various upgrades and connections to the existing infrastructure that occurs within and surrounding the site, the extent of impacts has been examined in the context of the project as a whole (i.e., grading for utility trenches would be considered in overall grading plan). The project would not result in the need for new or expanded water, wastewater treatment or storm drainage, electric power, natural gas, or telecommunication facilities. Impacts would be less than significant.

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

Less than Significant Impact. The Urban Water Management Planning Act (Act), adopted in 1983, requires water suppliers in California to conduct long-term water resources planning and specifically, Section 10620 (a) of the Act, identifies that urban water suppliers shall prepare and adopt an urban water management plan (UWMP) and that these plans are to be updated every five years.

Accordingly, the City, as the water purveyor, has prepared the 2020 UWMP, an update to the 2015 UWMP, which has been submitted to the California Department of Water Resources for review in June 2021. The UWMP outlines that City has the following sources of water: Metropolitan Water District of Southern California supply, City groundwater supplies, groundwater and surface water purchases from San Antonio Water Company, recycled water supply from the Inland Empire Utility Agency (IEUA) and limited local surface supply. Through a combination of these resources the City has the ability to meet current and projected water demands through 2045 during normal, historic single-dry and historic multiple-dry year periods (Water Resources Planning 2021).

The project site is currently occupied by a lumberyard that uses water for various light industrial uses throughout the site. With project implementation, water usage would increase as the site transitions to residential land uses. However, it is noted that the City's UWMP water demand calculations, account for new development relying on developable vacant lands and an intensification of water use per acre for underutilized lands (e.g., redevelopment, repurposing, increased densities), all in accordance with the City's current General Plan. As stated in the City's UWMP, the City planning managers reviewed and confirmed the future land use data and provided rough estimates of when each of the lands may be developed over time (Water Resources Planning 2021). As noted in Sections III and XI, the City has recognized the project site as an underutilized property with the potential for residential development in its update to the General Plan Housing Element, and therefore, has been accounted for in the UWMP.

As stated in the UWMP, the City can meet its water demands through 2045 under all scenarios, coupled with the required compliance to State efficiency standards, the project would have sufficient water

supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years. Impacts are less than significant.

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

Less than Significant Impact. The City owns and maintains local sewer lines within the City. Wastewater flows from the City are discharged to local sewer lines for conveyance to regional sewer trunk lines for wastewater treatment at reclamation facilities primarily owned and maintained by the IEUA. IEUA operates and maintains four water recycling facilities and two biosolids treatment facilities. One of the four reclamation facilities also includes biosolids treatment facilities. The four water reclamation facilities are designed to reclaim wastewater received from contracting agencies, including the City and the total combined design treatment capacity of these facilities is 85.7 million gallons per day (mgd) (IEUA 2021). Currently, all four reclamation facilities treat a total combined average daily flow of approximately 56 mgd (Water Resources Planning 2021).

IEUA uses sewage bypass and diversion facilities to optimize the flows and capacity utilization (Water Resources Planning 2021). Additionally, according to the UWMP, over the past decade, the region has increased water use efficiency, enacted more efficient building codes and devices, and implemented effective conservation program campaigns, which has resulted in a decrease in the volume of sewage flows of approximately 10 percent since 2013 at regional wastewater treatment facilities (Water Resources Planning 2021).

Planning for regional facilities such as the regional wastewater treatment plants is based upon planning projections. Conservatively, the project would add 181 people to the project area, approximately 0.2 percent of the exiting population and within the planning forecasts for the City. As noted above, the regional facilities currently have a total combined average daily follow of 56 mgd, approximately 21.5 mgd less than the combined treatment capacity. Therefore, the IEUA facilities have adequate capacity to meet the project's demands in addition to its existing commitments. Impacts would be less than significant.

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

Less than Significant Impact. Development of the project may result in a slight increase in domestic municipal solid waste generation because of the proposed land use. The project would construct 64 dwelling units, which would result in a population increase of approximately 181 people. CalRecycle monitors the progress of local jurisdictions in meeting the various solid waste reduction recycling goals, which are expressed in per capita disposal rates for residents and employees. The most current information for the City (2019) is that the City is disposing fewer pounds per day (ppd) of waste than the target rates; thereby exceeding their goal. Specifically, the City of has a goal of disposing of no more than 5.2 ppd/resident and 14.8 ppd/employee; as of 2019, on the whole residents were disposing of 4.7 ppd and employees 12.2 ppd (CalRecycle 2021).

The project would generate waste during construction. Due to the demolition activities, the project would be required to prepare a Waste Management Plan that would demonstrate how demolition and construction would reduce the volume of solid waste entering landfills per UMC Section 13.28.620. Currently, the existing lumberyard land uses generate solid waste. Once operational, the project would

generate waste typical of residential land uses. The project is required to comply AB 939, which requires cities to divert 50 percent of solid waste to recycling programs and away from landfills.

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

Less than Significant Impact. The project would comply with the City's solid waste reduction programs, which are designed to comply with federal, state, and local statutes and regulations related to solid waste. These statutes and regulations include the California Integrated Solid Waste Management Act, the California Beverage Container Recycling and Litter Reduction Act, and the City's solid waste disposal policies and practices. The Integrated Solid Waste Management Act requires that jurisdictions maintain a 50 percent or better diversion rate for solid waste. The City operates curbside recycling services and participation is mandatory for single-family and multi-family dwelling units. Residents can dispose of their accumulated recyclables, such as plastic bottles, aluminum cans, glass, paper, and cardboard, together in their recycling bins.

The construction and operation of the proposed project would generate typical municipal solid wastes, which would be disposed of in accordance with the City's existing solid waste management programs. UMC Section 13.28.620 requires construction and demolition debris generated in the City to be recycled to the greatest extent feasible to comply with state-mandated waste diversion requirements. The proposed project is required to comply with the applicable solid waste franchise's recycling system, and thus, would meet the City's and California's solid waste diversion regulations. Impacts would be less than significant.

XX. Wildfire

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

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

Less than Significant Impact. According to the FHSZ map prepared for the City by CAL FIRE, the proposed project is not located within a VHFHSZ (CAL FIRE 2008). During construction of the project, heavy construction vehicles could interfere with emergency response to the site or emergency evacuation procedures in the event of an emergency (e.g., vehicles traveling behind the slow-moving truck). However, such trips would be brief and infrequent. Additionally, although traffic would temporarily need to be directed around the construction when making utility tie-ins, the project construction would not require road closures. Public roadways would remain open for standard traffic and emergency response vehicles for the duration of construction. During project operation, roadways and intersections in the area surrounding the project site would continue to operate at acceptable levels with the addition of project-related traffic (refer to items XVII a) – XVII d). Also, access to the project site would be improved with project implementation by refurbishing the existing driveway along the project's frontage on East Arrow Highway to a full access driveway, which would improve emergency response access and evacuation for the site. The proposed on-site roadways would provide sufficient access to and from each of the 64 proposed residences in the event of an emergency. The project would not impair an adopted emergency response plan or emergency evacuation plan. Impacts would be less than significant.

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

No Impact. The project site is level and void of slopes. The surrounding area is highly developed and does not support the common characteristics identified as a wildfire risk, such as difficult terrain, inadequate access, and unmaintained vegetation. As discussed in item IX g), the project is not within a very high fire hazard severity zone as mapped by CALFIRE. The project would have no impact in relation to this issue.

The proposed project would adhere to the California Fire Code, and the County of San Bernardino Fire Code. Therefore, the proposed project would not exacerbate wildfire risks, and impacts would be less than significant.

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

No Impact. Please refer to item XX b). The proposed project is located in a developed area. The project does not involve the installation of fuel breaks, emergency water sources, or power lines. The project would involve the extension or upgrades of existing utilities, such as sewer, water, electric, gas, and telecommunication facilities. Such utility improvements would not exacerbate fire risk or result in temporary or ongoing impacts to the environment. No impact would occur.

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

No Impact. Please refer to items VII a) through VII d) and item XX b). The project is in an urban area. The project would not exacerbate wildfire risks due to slope, prevailing winds, and other factors, and would not expose project occupants to significant levels of pollutant concentrations from a wildfire or the

uncontrolled spread of a wildfire. The project would not result in people and structures experiencing significant risks such as downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. No impact would occur

XXI. Mandatory Findings of Significance

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
The lead agency shall find that a project may have a significant effect on the environment and thereby require an EIR to be prepared for the project where there is substantial evidence, in light of the whole record, that any of the following conditions may occur. Where prior to commencement of the environmental analysis a project proponent agrees to MMs or project modifications that would avoid any significant effect on the environment or would mitigate the significant environmental effect, a lead agency need not prepare an EIR solely because without mitigation the environmental effects would have been significant (per Section 15065 of the State CEQA Guidelines):				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☐	■	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of past, present, and probable future projects)?	☐	☐	■	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	■	☐	☐

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

Less than Significant Impact. The project site is currently developed as a lumber yard in an urban area. The site does not contain or support any sensitive habitat or special status species.

The project would not affect any known archaeological, tribal cultural, or paleontological resources. With required compliance with the City's policies and regulatory codes for discovery of archaeological or tribal cultural resources the project would not eliminate important examples of the major periods of California history or prehistory.

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

Less than Significant Impact. State CEQA Guidelines Section 15130 requires a discussion of the cumulative impacts of a project when the project's incremental effect is "cumulatively considerable," meaning that the project's incremental effects are considerable when viewed in connection with the effects of past, current, and probable future projects.

The City of Upland maintains a current project list that identifies the following projects considered within the cumulative project area:

- 7th Street Apartments, 64-unit multi-family complex at 1252 7th East Street
- Sage at 9th Street, 26 townhome units at 1332, 1336 and 1344 E. 9th Street
- Mesa Court Apartments, 60 townhouse units at 790 Mesa Court

There may be short-term cumulative impacts in relation to any diversion of traffic or access to the greater project site area. However, as with the project, other cumulative projects, the City's Traffic Control Handbook identifies the procedures to reduce construction-related impacts and maintain traffic flow on City streets and the project conditions of approval would require that emergency access be maintained during construction. Further, the TIA (see Appendix G) prepared for the project evaluated the potential for cumulative impacts to occur in relation to the projects listed above and the proposed project. It was determined that no significant transportation impacts would occur.

As discussed under item III b), the project's long-term emissions of criteria pollutants and precursors would not exceed the SCAQMD 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. Similarly, the project would have a less than significant impact in relation to GHG, which is inherently discussed in terms of cumulative impacts.

All resource topics associated with the project have been analyzed in accordance with State CEQA Guidelines and found to pose no impact, less-than-significant impact, or less than significant with mitigation. Potential cumulative projects that could be constructed in the vicinity of the project would be required to comply with existing applicable federal, state, and local regulations.

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

Less than Significant Impact. The project would not consist of any uses or activities that would negatively affect any persons in the vicinity. In addition, all resource topics associated with the project

have been analyzed in accordance with CEQA and the State CEQA Guidelines and found to pose no impact, less-than-significant impact, or less than significant with mitigation. As discussed in Section IX, Hazards and Hazardous Materials of this IS/MND, there are no concerns from past lumber yard activities at the site and no present hazardous materials and/or wastes concerns have been identified. There is, however, the potential for land use consistency conflicts in relation to noise impacts upon future residents of the project site; however, with implementation of mitigation measure LU-1, potential impacts are reduced to less than significant. Additionally, during construction, noise levels may exceed the 55 dBA daytime baseline as discussed in Section XIII. Implementation of mitigation measure NOI-1 would reduce potential impact to less than significant. Consequently, the project would not result in any environmental effects that would cause substantial adverse effects on human beings directly or indirectly.

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IS/MND Appendix A

Air Quality and Greenhouse Gas Emissions Technical Report and Energy Calculations

Rose Glen Specific Plan Residential Project

Air Quality and Greenhouse Gas Emissions Technical Report

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TABLE OF CONTENTS

Section **Page**

EXECUTIVE SUMMARY ES-1

1.0 INTRODUCTION 1

1.1 Project Location 1
1.2 Project Description 1
1.3 Construction Activities and Phasing 1

2.0 REGULATORY SETTING 2

2.1 Air Quality 2
2.1.1 Air Pollutants of Concern 2
2.1.2 Federal Air Quality Regulations 4
2.1.3 California Air Quality Regulations 6
2.1.4 Local Regulations 7
2.2 Greenhouse Gases 8
2.2.1 Climate Change Overview 8
2.2.2 Types of Greenhouse Gases 9
2.2.3 Federal Greenhouse Gas Regulations 10
2.2.4 California Greenhouse Gas Regulations 11

3.0 EXISTING CONDITIONS 15

3.1 Climate and Meteorology 15
3.2 Existing Air Quality 16
3.2.1 Criteria Pollutants 16
3.2.2 Greenhouse Gases 17

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA 18

4.1 Methodology 18
4.1.1 Construction Emissions 18
4.1.2 Operation Emissions 21
4.1.3 Localized Significance Threshold Methodology 22
4.2 Significance Criteria 23
4.2.1 Air Quality 23
4.2.2 Greenhouse Gases 24

5.0 AIR QUALITY IMPACT ANALYSIS 27

5.1 Issue 1: Consistency with Air Quality Plans 27
5.1.1 Impacts 27
5.1.2 Significance of Impacts 28
5.1.3 Mitigation Framework 28
5.1.4 Significance After Mitigation 28

TABLE OF CONTENTS (cont.)

Section **Page**

5.2 Issue 2: Cumulatively Considerable Net Increase of Nonattainment Criteria Pollutants 28
5.2.1 Impacts 28
5.2.2 Significance of Impacts 30
5.2.3 Mitigation Framework 30
5.2.4 Significance After Mitigation 30
5.3 Issue 3: Impacts to Sensitive Receptors 30
5.3.1 Impacts 30
5.3.2 Significance of Impacts 32
5.3.3 Mitigation Framework 33
5.3.4 Significance After Mitigation 33
5.4 Issue 4: Other Emissions (Such as Those Leading to Odors) 33
5.4.1 Impacts 33
5.4.2 Significance of Impacts 33
5.4.3 Mitigation Framework 33
5.4.4 Significance After Mitigation 33

6.0 GREENHOUSE GAS IMPACT ANALYSIS 33

6.1 Issue 1: Greenhouse Gas Emissions 34
6.1.1 Construction Emissions 34
6.1.2 Operational Emissions 34
6.1.3 Significance of Impacts 35
6.1.4 Mitigation Framework 35
6.1.5 Significance After Mitigation 35
6.2 Issue 2: Conflict With Applicable Plans Adopted for the Purpose of Reducing GHG Emissions 35
6.2.1 Impacts 35
6.2.2 Significance of Impacts 36
6.2.3 Mitigation Framework 36
6.2.4 Significance After Mitigation 36

7.0 LIST OF PREPARERS 36

8.0 REFERENCES 37

TABLE OF CONTENTS (cont.)

LIST OF APPENDICES

A CalEEMod Output

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	Aerial Photograph	2
3	Site Plan	2

LIST OF TABLES

No.	Title	Page
1	Summary of Common Sources and Human Health Effects of Criteria Air Pollutants	3
2	Ambient Air Quality Standards	5
3	South Coast Air Basin Attainment Status (Riverside County Portion)	6
4	Global Warming Potentials and Atmospheric Lifetimes	10
5	Air Quality Monitoring Data	16
6	California Greenhouse Gas Emissions by Sector	17
7	Anticipated Construction Schedule	19
8	Construction Equipment Assumptions	20
9	SCAQMD Thresholds of Significance	24
10	Daily Construction Emissions	29
11	Daily Operational Emissions	29
12	Maximum Localized Daily Construction Emissions	31
13	Estimated Construction GHG Emissions	34
14	Total Estimated Operational GHG Emissions	35

ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
C_2F_6	hexafluoroethane
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emissions Estimator Model
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
CEQA	California Environmental Quality Act
CF_4	tetraflouromethane
CFC	chlorofluorocarbon
CH_4	methane
City	City of Upland
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
DPM	diesel particulate matter
EO	Executive Order
GHG	greenhouse gas
GWP	global warming potential
HFC	hydrofluorocarbon
I-	Interstate
IPCC	Intergovernmental Panel on Climate Change
kW	kilowatts
kWhr	kilowatts-hours
LCFS	Low Carbon Fuel Standard
LOS	level of service
LST	localized significance threshold

ACRONYMS AND ABBREVIATIONS (cont.)

mg/m^3	milligrams per cubic meter
MMT	million metric tons
mpg	miles per gallon
mph	miles per hour
MT	metric tons
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NASA	National Aeronautics and Space Administration
NHTSA	National Highway Traffic Safety Administration
NO	nitrogen oxide
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
O_3	ozone
Pb	lead
PFC	perfluorocarbon
PM_{10}	particulate matter less than 10 microns
$PM_{2.5}$	particulate matter less than 2.5 microns
ppm	parts per million
ROG	reactive organic gas
RTP	Regional Transportation Plan
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SF	square feet
SF_6	hexafluoride
SIP	State Implementation Plan
SO_2	sulfur dioxide
SO_X	sulfur oxides
SRA	source receptor area
TACs	toxic air contaminants
TIA	Traffic Impact Analysis
USEPA	U.S. Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compound

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EXECUTIVE SUMMARY

This report presents an assessment of potential air quality and greenhouse gas (GHG) emissions impacts during construction and operation of the proposed Rose Glen Specific Plan Residential Project (project), located in the City of Upland (City). The project includes construction of 65 two-story single-family detached residential homes.

The project's growth is accounted for in the South Coast Air Quality Management District's (SCAQMD's) Air Quality Management Plan. Therefore, the proposed project would not conflict with or obstruct implementation of the most recent AQMP.

The project would result in emissions of criteria air pollutants during construction and operation. In accordance with SCAQMD Rule 403, fugitive dust control measures including the use of an on-site water truck to wet down active grading areas and roads at least twice daily are incorporated into the project design. Project emissions of criteria pollutants during construction and operations would not exceed the SCAQMD emissions thresholds. Impacts related to cumulatively considerable net increases of criteria pollutant in the region would be less than significant with mitigation incorporated.

Project-generated traffic would not result in a carbon monoxide hot spot. Construction and operation of the project would not result in exposure of sensitive receptors to significant quantities of toxic air contaminants or substantial localized criteria pollutant and precursor concentrations. Impacts related to exposure of sensitive receptors to substantial pollutant concentrations, or other emissions such as odors, would be less than significant.

The project would be required to comply with the 2019 Title 24 Energy Code, including the requirement for on-site solar electricity generation; the 2019 California Green Building Standards Code; the Assembly Bill 341 solid waste diversion target of 75 percent; reduction of potable water use by 20 percent when compared to the statewide average; low-flow water and bathroom fixtures; reduction of wastewater generation by 20 percent; weather-based irrigation systems; and provide areas for storage and collection of recyclables and yard waste.

The project-related construction activities are estimated to generate 780 metric tons (MT) of carbon dioxide equivalent (CO_2e), or 26 MT per year of CO_2e emissions per year for 30 years. The project-related operational and amortized construction GHG emissions for the first full year of operation (estimated to be 2025) would be 683 MT CO_2e. Implementation of the project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, and the impact would be less than significant. The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and the impact would be less than significant.

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1.0 INTRODUCTION

This report presents an assessment of potential air quality and greenhouse gas (GHG) emissions impacts during construction and operation of the proposed Rose Glen Specific Plan Residential Project (project).

1.1 PROJECT LOCATION

The project site is located at 1400 East Arrow Highway in the city of Upland in the southwest region of San Bernardino County. The Assessor's Parcel Number (APN) is 1046-481-14-0000. See Figure 1, *Project Location*, and Figure 2, *Project Vicinity (Aerial Photograph).* The project is located 2.43 miles south of Interstate 210 (I-210, Foothill Freeway) and 1.04 miles north of Interstate 10 (I-10, San Bernardino Freeway) within an unsectioned portion of Township 1 South, Range 7 West, on the U.S. Geological Survey (USGS) 7.5' Ontario quadrangle. The project site is bordered by East Arrow Highway to the north, residential properties and Olivewood Drive to the east, a commercial property to the west, and residential properties to the south.

1.2 PROJECT DESCRIPTION

The proposed project would demolish the structures on the subject property and replace them with 65 two-story single family detached residential homes. The homes, which will be designed in the Spanish/Santa Barbara architectural style, will range from 1,544 to 1,547 square feet (sf), and extend to a maximum height of 40 feet. Additional project features include 30,000 square feet of open space that encompasses 20,600 sf of private open space and 9,400 sf of common open space. A total of 162 parking spaces would be provided, that would be divided between the private two-car garages and dedicated guest parking that would be allocated throughout the site. The existing eight-foot block wall that separates the project site from the residential land uses to the east would remain, as would an existing six-foot wall along the project's southern edge. Site access would be via a gated entrance along East Arrow Highway with a secondary emergency access only along 14th Avenue. A network of internal private drives would provide access to the individual homes (Figure 3, *Site Plan*).

To accommodate the residences, the project would require a General Plan land use amendment and a zone change from the current Light Industrial/Business Park designation and Light Industrial Zoning to Specific Plan and RM-20 Residential, MF 20 dwelling units (du) per acre.

1.3 CONSTRUCTION ACTIVITIES AND PHASING

Project construction is assumed to occur over an approximately two-year period starting in January 2023. Activities include demolition, site preparation, grading, installation of underground utilities and infrastructure, paving, construction of residences, and architectural coating (e.g., painting). Demolition would include the removal of 5,000 sf of structures and 213,444 sf of asphalt. In addition, 2,727 cubic yards of soil would be imported to the site during grading. Construction of the homes is slated to begin in July 2023 with construction lasting approximately 18 months. Project completion is anticipated to be December 2024.

Project construction would be required to implement all applicable fugitive dust best available control measures specified in Table 1 of the SCAQMD Rule 403, *Fugitive Dust* (SCAQMD 2005), including, but not

limited to: the use of an on-site water truck to wet down exposed areas at least twice daily, maintaining a 12 percent moisture content to unpaved roads, and limiting vehicle speeds to 15 miles per hour (mph).

2.0 REGULATORY SETTING

2.1 AIR QUALITY

The project site is located within the South Coast Air Basin (SCAB). Air quality in the SCAB 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 SCAQMD at the regional level.

2.1.1 Air Pollutants of Concern

2.1.1.1 Criteria Pollutants

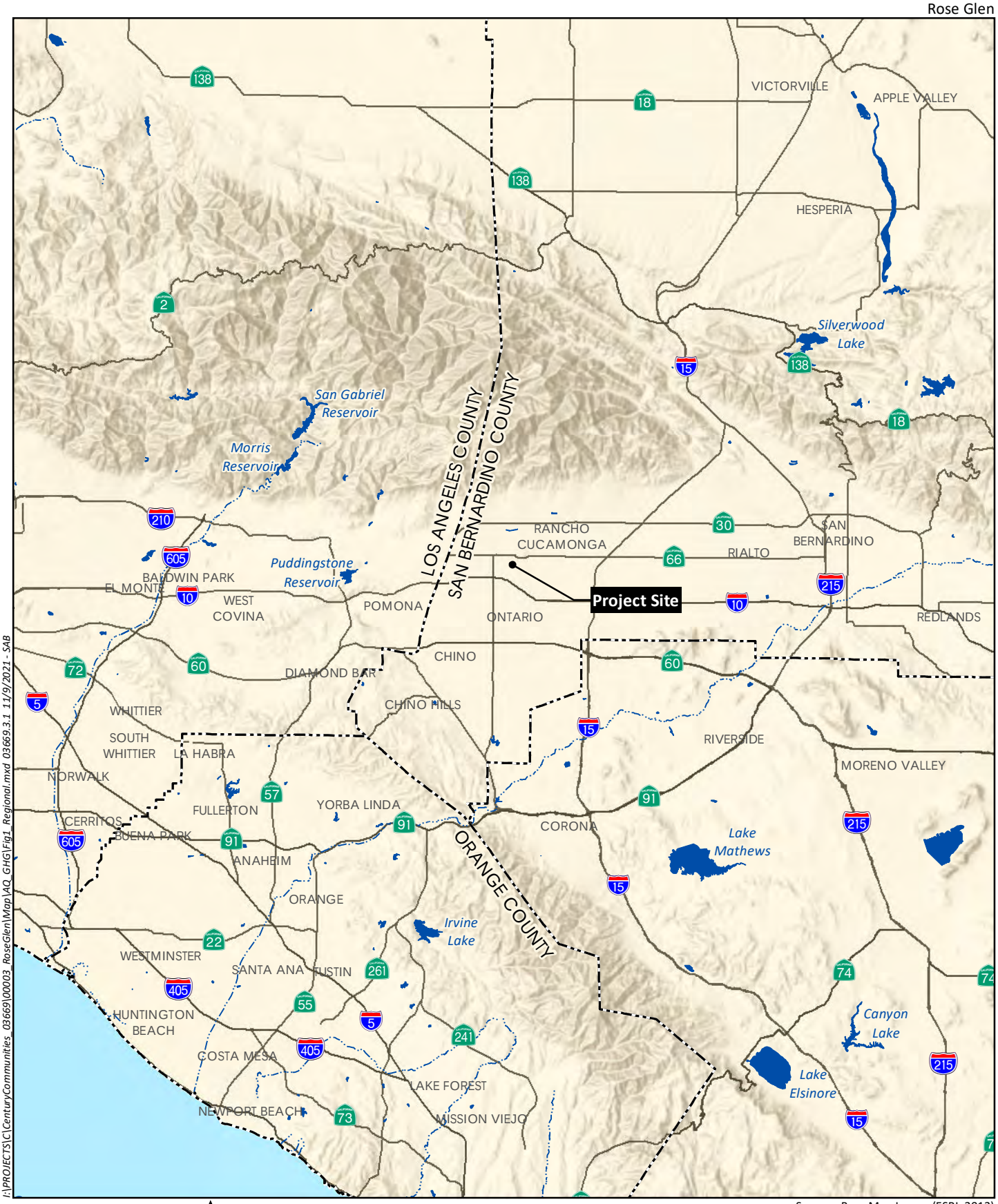
Criteria pollutants are defined by state and federal law as a risk to the health and welfare of the general public. In general, criteria air pollutants include the following compounds:

- Ozone (O_3)
- Carbon monoxide (CO)
- Nitrogen dioxide (NO_2)
- Particulate matter (PM), which is further subdivided:
  - Coarse PM, 10 micrometers or less in diameter (PM_{10})
  - Fine PM, 2.5 micrometers or less in diameter ($PM_{2.5}$)
- Sulfur dioxide (SO_2)
- Lead (Pb)

Criteria pollutants can be emitted directly from sources (primary pollutants; e.g., CO, SO_2, PM_{10}, $PM_{2.5}$, and lead), or they may be formed through chemical and photochemical reactions of precursor pollutants in the atmosphere (secondary pollutants; e.g., ozone, NO_2, PM_{10}, and $PM_{2.5}$). PM_{10} and $PM_{2.5}$ 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])[1] and nitrogen oxides (NO_X).

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_X) 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_2 are, therefore, the product of emissions generated by numerous

[1] 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.



I:\PROJECTS\C\CenturyCommunities_03669\00003_RoseGlen\Map\AQ_GHG\Fig1_Regional.mxd 03669.3.1 11/9/2021 - SAB

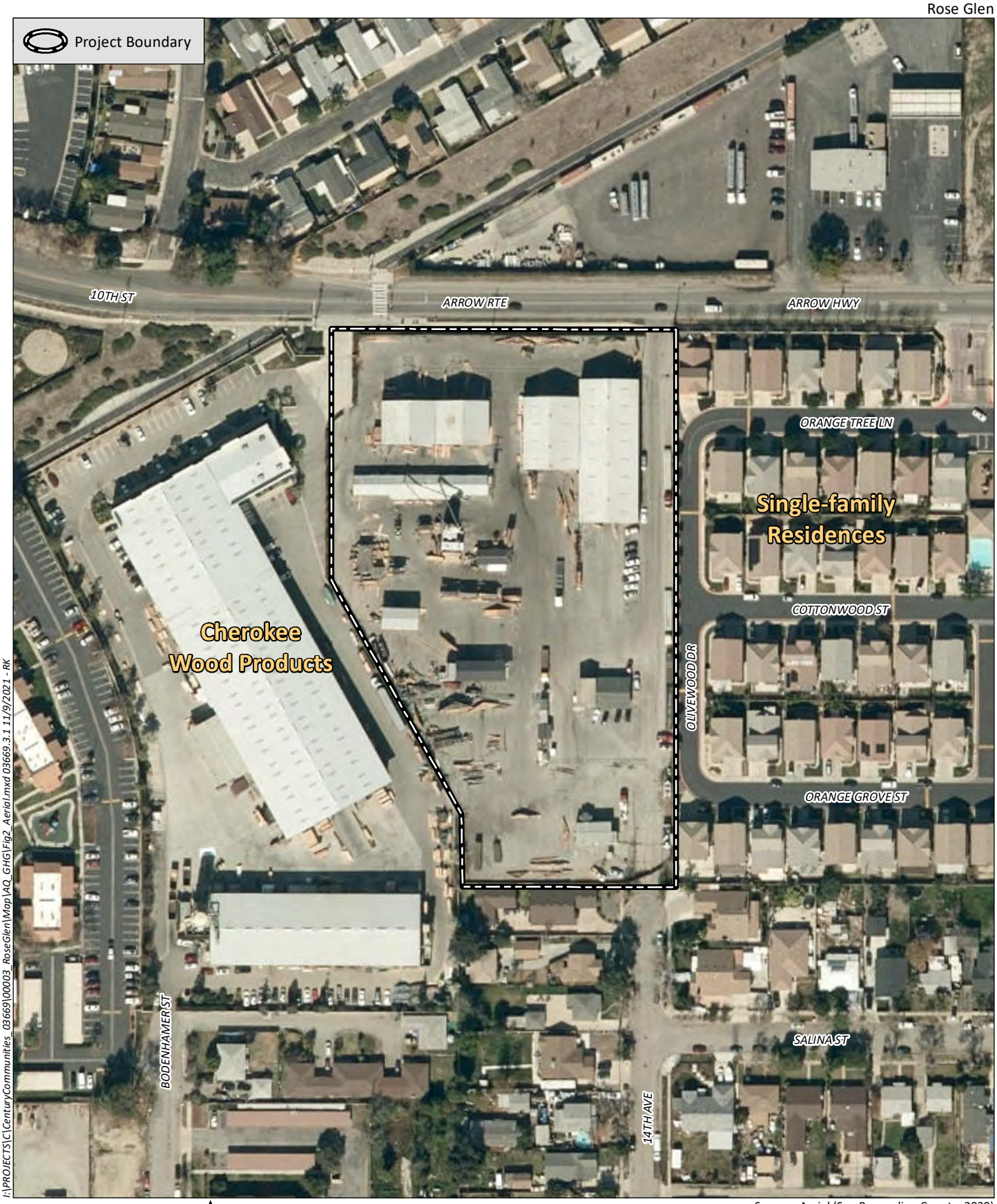
0 8 Miles

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1

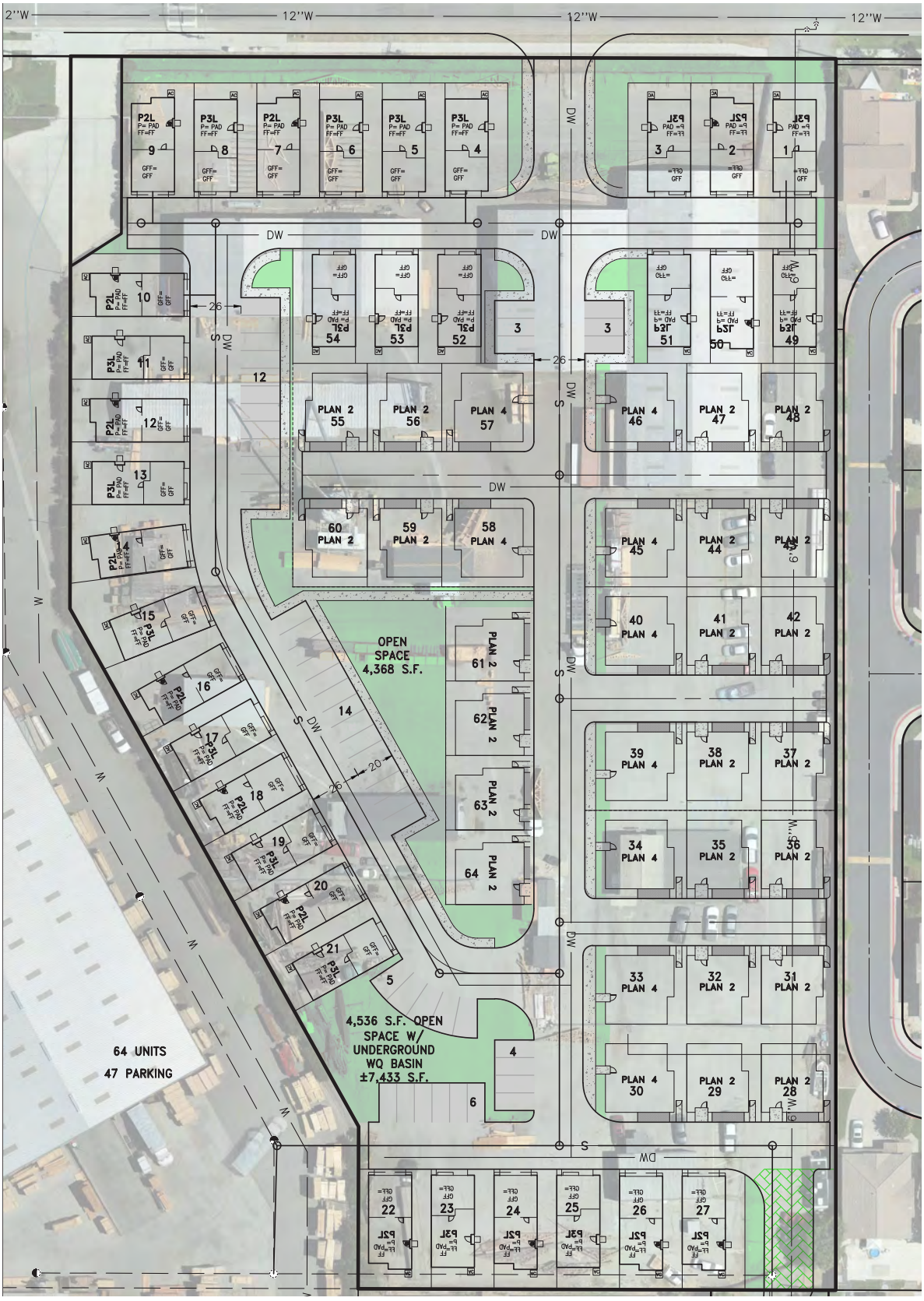


Source: Aerial (San Bernardino County, 2020)

HELIX Environmental Planning

Project Vicinity (Aerial Photograph)

Figure 2



Source: Hunsaker 2021

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HELIX Environmental Planning

Site Plan

Figure 3

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, 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

Pollutant	Major Man-Made Sources	Human Health Effects
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_2)	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_3)	Formed by a chemical reaction between reactive organic gases (ROGs) and nitrogen oxides (NO_X) 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_{10} and $PM_{2.5}$)	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_2)	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

The Health and Safety Code (§39655, subd. (a).) defines a toxic air contaminant (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 Federal Clean Air Act (CAA) (42 United States Code Section 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.

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 2021a). 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).

2.1.2 Federal Air Quality Regulations

2.1.2.1 Federal 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 health and welfare of the general public. The USEPA is responsible for enforcing the 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. Table 2, *Ambient Air Quality Standards*, shows the federal and state ambient air quality standards for these pollutants.

Table 2
AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards	Federal Standards Primary[1]	Federal Standards Secondary[2]
O_3	1 Hour	0.09 ppm (180 µg/m^3)	–	–
	8 Hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	Same as Primary
PM_{10}	24 Hour	50 µg/m^3	150 µg/m^3	Same as Primary
	AAM	20 µg/m^3	–	Same as Primary
$PM_{2.5}$	24 Hour	–	35 µg/m^3	Same as Primary
	AAM	12 µg/m^3	12.0 µg/m^3	15.0 µg/m^3
CO	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	–
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)	–	–
NO_2	1 Hour	0.18 ppm (339 µg/m^3)	0.100 ppm (188 µg/m^3)	–
	AAM	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as Primary
SO_2	1 Hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m^3)
	24 Hour	0.04 ppm (105 µg/m^3)	–	–
Lead	30-day Avg.	1.5 µg/m^3	–	–
	Calendar Quarter	–	1.5 µg/m^3	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m^3	Same as Primary
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^3	No Federal Standards	No Federal Standards
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	No Federal Standards	No Federal Standards
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m^3)	No Federal Standards	No Federal Standards

Source: CARB 2016

[1] National Primary Standards: The levels of air quality necessary, within an adequate margin of safety, to protect the public health.

[2] 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_3 = ozone; ppm: parts per million; µg/m^3 = micrograms per cubic meter; PM_{10} = particulate matter with an aerodynamic diameter of 10 microns or less; AAM = Annual Arithmetic Mean; $PM_{2.5}$ = fine particulate matter;
CO = carbon monoxide; mg/m^3 = milligrams per cubic meter; NO_2 = nitrogen dioxide; SO_2 = sulfur dioxide;
km = kilometer; – = No Standard

The USEPA has classified air basins (or portions thereof) as being in "attainment," "nonattainment," "maintenance," or "unclassified" for each criteria air pollutant, based on whether or not the NAAQS have been achieved. Upon attainment of a standard for which an area was previously designated nonattainment, the area will be classified as a maintenance area. If an area is designated unclassified, it

is because inadequate air quality data were available as a basis for a nonattainment or attainment designation. The project site is located within the Riverside County portion of the SCAB and, as such, is in an area designated as a nonattainment area for certain pollutants that are regulated under the CAA. Table 3, *South Coast Air Basin Attainment Status*, lists the federal and state attainment status of the SCAB for the criteria pollutants. With respect to federal air quality standards, the USEPA classifies the SCAB as in attainment for PM_{10}, CO, NO_2, SO_2, and lead, and in nonattainment for 8-hour ozone and $PM_{2.5}$.

Table 3
SOUTH COAST AIR BASIN ATTAINMENT STATUS
(RIVERSIDE COUNTY PORTION)

Criteria Pollutant	Federal Designation	State Designation
O_3 (1-hour)	(No federal standard)	Nonattainment
O_3 (8-hour)	Extreme Nonattainment	Nonattainment
CO	Attainment (Maintenance)	Attainment
PM_{10}	Attainment (Maintenance)	Nonattainment
$PM_{2.5}$	Serious Nonattainment	Nonattainment
NO_2	Attainment (Maintenance)	Attainment
SO_2	Unclassifiable/Attainment	Unclassifiable/Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen Sulfide	(No federal standard)	Attainment
Visibility	(No federal standard)	Attainment

Source: SCAQMD 2016a

2.1.3 California Air Quality Regulations

2.1.3.1 California Clean Air Act

The federal CAA allows states to adopt ambient air quality standards and other regulations provided that they are at least as stringent as federal standards. CARB, a part of the CalEPA, is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the California Ambient Air Quality Standards (CAAQS). CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In addition to primary and secondary AAQS, the state has established a set of episode criteria for ozone, CO, NO_2, SO_2, and PM. These criteria refer to episode levels representing periods of short-term exposure to air pollutants that actually threaten public health. Table 3, above, lists the state attainment status of the SCAB for the criteria pollutants. Under state designation, the SCAB is currently in attainment for CO, NO_2, SO_2, and lead; and in nonattainment for ozone, PM_{10}, and $PM_{2.5}$.

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 all of 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 2.2.4, below.

2.1.4 Local Regulations

2.1.4.1 South Coast Air Quality Management District

Air quality in the non-desert portion of Riverside County is regulated by the SCAQMD. As a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), County transportation commissions, and local governments and cooperates actively with all federal and state government agencies. The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary.

Air Quality Management Plan

The SCAQMD is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources. It has responded to this requirement by preparing a sequence of Air Quality Management Plans (AQMP).

On March 3, 2017, the SCAQMD adopted the 2016 AQMP, which is a regional and multi-agency effort (SCAQMD, CARB, SCAG, and USEPA). The 2016 AQMP represents a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures. The plan seeks to achieve multiple goals in partnership with other entities promoting reductions in criteria pollutant, GHGs, and toxic risk, as well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017).

The AQMP, in combination with those from all other California nonattainment areas with serious (or worse) air quality problems, is submitted to CARB, which develops the California SIP. The SIP relies on the same information from SCAG to develop emission inventories and emission reduction strategies that

are included in the attainment demonstration for the air basin. The current federal and state attainment status for the SCAB is presented above, in Table 3.

Rules and Regulations

The following rules promulgated by the SCAQMD would be applicable to construction and/or operation of the project.

Rule 401 – Visible Emissions: Limits the allowable opacity of air contaminant emissions from any single source (SCAQMD 2001).

Rule 402 – Nuisance: Prohibits the discharge of air contaminants, including odors, which cause injury, detriment, nuisance, or annoyance to any considerable number of persons (SCAQMD 1976).

Rule 403 – Fugitive Dust: Requires actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions, including emissions from construction activities. Project construction would be required to implement all applicable fugitive dust best available control measures specified in Table 1 in the rule (SCAQMD 2005).

Rule 445 – Wood Burning Devices: Controls the operation sale, and installation of wood-burning devices. Permanently installed wood-burning devices (e.g., fireplace, woodstoves) are prohibited in all new development (SCAQMD 2020).

Rule 113 – Architectural Coating: Establishes VOC limits for architectural coatings (e.g., paints, stains, preservatives). Effective January 1, 2019, building interior and exterior paint is limited to a maximum VOC content of 50 grams per liter (SCAQMD 2016b).

2.2 GREENHOUSE GASES

2.2.1 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 global surface temperatures ranking as tied with 2016 for the warmest year on record since 1880 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-20th century (United Nations Intergovernmental Panel on Climate Change [IPCC] 2013). 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

pre-industrial levels if atmospheric concentrations are stabilized at about 450 parts per million (ppm) carbon dioxide equivalent (CO_2e) by the year 2100 (IPCC 2014).

2.2.2 Types of Greenhouse Gases

The GHGs defined under California's AB 32 include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

Carbon Dioxide. CO_2 is the most important and common anthropogenic GHG. CO_2 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_2 include burning fuels, such as coal, oil, natural gas, and wood. Data from ice cores indicate that CO_2 concentrations remained steady prior to the current period for approximately 10,000 years. The atmospheric CO_2 concentration in 2010 was 390 ppm, 39 percent above the concentration at the start of the Industrial Revolution (approximately 280 ppm in 1750). In September 2021, the CO_2 concentration was 413 ppm, a 48 percent increase since 1750 (National Oceanic and Atmospheric Administration [NOAA] 2021).

Methane. CH_4 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_2O is produced by both natural and human-related sources. N_2O 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_2O 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 (CFCs) are nontoxic, nonflammable, insoluble, and chemically nonreactive in the troposphere (the level of air at Earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone; therefore, their production was stopped as required by the 1989 Montreal Protocol.

Sulfur Hexafluoride. SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 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_2. For example, a gas with a GWP of 10 is 10 times more potent than CO_2 over 100 years. CO_2e 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_2e.

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). The updated GWPs in the IPCC AR4 have begun to be used in recent GHG emissions inventories. In 2013, IPCC again updated the GWP values based on the latest science in its Fifth Assessment Report (AR5) (IPCC 2013). However, United Nations Framework Convention on Climate Change (UNFCCC) reporting guidelines for national inventories require the use of GWP values from the AR4. To comply with international reporting standards under the UNFCCC, official emission estimates for California and the U.S. are reported using AR4 GWP values, and statewide and national GHG inventories have not yet updated their GWP values to the AR5 values. Project GHG emissions in this analysis are reported using the AR4 GWP values.

By applying the GWP ratios, project-related CO_2e emissions can be tabulated in metric tons per year. Typically, the GWP ratio corresponding to the warming potential of CO_2 over a 100-year period is used as a baseline. The atmospheric lifetime and GWP of selected GHGs are summarized in Table 4, *Global Warming Potentials and Atmospheric Lifetimes*.

Table 4
GLOBAL WARMING POTENTIALS AND ATMOSPHERIC LIFETIMES

Greenhouse Gas	Atmospheric Lifetime (years)	IPCC SAR GWP	IPCC AR4 GWP	IPCC AR5 GWP
Carbon Dioxide (CO_2)	50-200	1	1	1
Methane (CH_4)	12	21	25	28
Nitrous Oxide (N_2O)	114	310	298	265
HFC-134a	14	1,300	1,430	1,300
PFC: Tetraflouromethane (CF_4)	50,000	6,500	7,390	6,630
PFC: Hexafluoroethane (C_2F_6)	10,000	9,200	12,200	11,100
Sulfur Hexafluoride (SF_6)	3,200	23,900	22,800	23,500

Source: IPCC 2007
IPCC = Intergovernmental Panel on Climate Change; GWP = global warming potential; HFC = hydrofluorocarbon; PFC = perfluorocarbon

2.2.3 Federal Greenhouse Gas Regulations

2.2.3.1 Federal Clean Air Act

The U.S. Supreme Court ruled on April 2, 2007, in *Massachusetts v. U.S. Environmental Protection Agency* that CO_2 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_2, CH_4, N_2O, HFC, PFC, and SF_6) threaten the public health and welfare of the American people (USEPA 2021). 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).

2.2.3.2 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.
- Whether the SAFE-1 interpretation of CAA Section 177 that could disallow other states' ability to adopt California GHG emission standards was appropriate.

2.2.4 California Greenhouse Gas Regulations

2.2.4.1 California Code of Regulations, Title 24, Part 6

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 or 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 improvement to the residential standards is 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] 2019a).

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.

2.2.4.2 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.

2.2.4.3 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.

2.2.4.4 Assembly Bill 32 – Global Warming Solution Act of 2006

The California Global Warming Solutions Act of 2006, widely known as AB 32, requires that CARB develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB is directed by AB 32 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.

2.2.4.5 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 GHGs 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.

2.2.4.6 Senate Bill 32

Approved by Governor Brown in September 2016, Senate Bill (SB) 32 (Amendments to the California Global Warming Solutions Action of 2006) extends California's GHG reduction programs beyond 2020. SB 32 amended the Health and Safety Code to include Section 38566, which contains language to authorize CARB to achieve a statewide GHG emission reduction of at least 40 percent below 1990 levels by no later than December 31, 2030. SB 32 codified the targets established by EO B-30-15 for 2030, which set the next interim step in the State's continuing efforts to pursue the long-term target expressed in EO B-30-15 of 80 percent below 1990 emissions levels by 2050.

2.2.4.7 Assembly Bill 197

A condition of approval for SB 32 was the passage of AB 197. AB 197 requires that CARB consider the social costs of GHG emissions and prioritize direct reductions in GHG emissions at mobile sources and large stationary sources. AB 197 also gives the California legislature more oversight over CARB through the addition of two legislatively appointed members to the CARB Board and the establishment a legislative committee to make recommendations about CARB programs to the legislature.

2.2.4.8 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. 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 2021b).

2.2.4.9 Assembly Bill 341

The state legislature enacted AB 341 (California Public Resource Code Section 42649.2), increasing the 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.

2.2.4.10 Executive Order S-01-07

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. CARB is therefore continuing to implement the LCFS statewide.

2.2.4.11 Senate Bill 350

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.

2.2.4.12 Senate Bill 375

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.

2.2.4.13 Senate Bill 100

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 zero-carbon resources by the end of 2045.

2.2.4.14 California Air Resources Board: Scoping Plan

On December 11, 2008, the 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 Scoping Plan includes nine measures or recommended actions related to reducing VMT and vehicle GHGs 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 and, therefore, is moving forward with the update process (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. CARB is moving forward with a second update to the Scoping Plan to reflect the 2030 target set by EO B-30-15 and codified by SB 32. The 2017 Climate Change Scoping Plan Update, Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target, was adopted in December 2017. The Scoping Plan Update establishes a proposed framework for California to meet a 40 percent reduction in GHGs by 2030 compared to 1990 levels (CARB 2017).

The 2017 Scoping Plan includes guidance to local governments in Chapter 5, including plan-level GHG emissions reduction goals and methods to reduce communitywide GHG emissions. In its guidance, CARB recommends that "local governments evaluate and adopt robust and quantitative locally-appropriate goals that align with the statewide per capita targets and the State's sustainable development objectives and develop plans to achieve the local goals." CARB further states that "it is appropriate for local jurisdictions to derive evidence-based local per capita goals [or some other metric] that the local jurisdiction deems appropriate, such as mass emissions or per service population, based on local emissions sectors and population projections that are consistent with the framework used to develop the statewide per capita targets" (CARB 2017).

3.0 EXISTING CONDITIONS

3.1 CLIMATE AND METEOROLOGY

The project site is in the SCAB, which consists of all or part of four counties: Los Angeles, San Bernardino, Riverside, and Orange. The distinctive climate of the SCAB is determined by its terrain and geographic location. The SCAB is a coastal plain with connecting broad valleys and low hills. It is bound by the Pacific Ocean to the southwest and high mountains around the rest of its perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light, average wind speeds.

The usually mild climatological pattern is interrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds. Winds in the project area are usually driven by the dominant land/ sea breeze circulation system. Regional wind patterns are dominated by daytime onshore sea breezes. At night, the wind generally slows and reverses direction traveling toward the sea. Local canyons can also alter wind direction, with wind tending to flow parallel to the canyons. The vertical dispersion of air

pollutants in the SCAB is hampered by the presence of persistent temperature inversions. High pressure systems, such as the semi-permanent high-pressure zone in which the SCAB is located, are characterized by an upper layer of dry air that warms as it descends, restricting the mobility of cooler marine-influenced air near the ground surface, and resulting in the formation of subsidence inversions. Such inversions restrict the vertical dispersion of air pollutants released into the marine layer and, together with strong sunlight, can produce worst-case conditions for the formation of photochemical smog. The basin-wide occurrence of inversions at 3,500 feet above mean sea level or less averages 191 days per year (SCAQMD 1993).

The predominant wind direction in the vicinity of the project site is from the west and the average wind speed is approximately 5.5 mph, as measured at the Cable Airport, approximately 3.3 miles northwest of the project site (Iowa Environmental Mesonet [IEM] 2021). The annual average maximum temperature in the project area, as measured at the Upland 3 N climatic station, approximately 2.6 miles north of the project site, is approximately 76.6 degrees Fahrenheit (°F), and the annual average minimum temperature is approximately 48.0°F. Total precipitation in the project area averages approximately 20.3 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer (Western Regional Climate Center [WRCC] 2021).

3.2 EXISTING AIR QUALITY

3.2.1 Criteria Pollutants

3.2.1.1 Attainment Designations

Attainment designations are discussed in Section 2.1 and Table 2. The SCAB is a federal and state nonattainment area for 8-hour ozone and $PM_{2.5}$. The SCAB is also a state nonattainment area for 1-hour ozone and PM_{10}.

3.2.1.2 Monitored Air Quality

The SCAQMD maintains monitoring stations to measure ambient concentrations of pollutants in the SCAB. The nearest monitoring station, approximately 0.3 miles north of the project site, is the Upland monitoring station. Table 5, *Air Quality Monitoring Data*, presents a summary of the ambient pollutant concentrations monitored at the Upland air quality monitoring stations during the most recent three years (2018 through 2020) for which the SCAQMD has reported data.

Table 5
AIR QUALITY MONITORING DATA

Pollutant Standard	2018	2019	2020
Ozone (O_3)			
Maximum concentration 1-hour period (ppm)	0.133	0.131	0.158
Maximum concentration 8-hour period (ppm)	0.112	0.107	0.124
Days above 1-hour state standard (>0.09 ppm)	25	31	82
Days above 8-hour state/federal standard (>0.070 ppm)	54	54	118
Coarse Particulate Matter (PM_{10})			
Maximum 24-hour concentration (µg/m^3)	156.6	125.9	174.8
Measured Days above 24-hr state standard (>50 µg/m^3)	*	*	*
Measured Days above 24-hr federal standard (>150 µg/m^3)	1	0	1

Pollutant Standard	2018	2019	2020
Fine Particulate Matter ($PM_{2.5}$)			
Maximum 24-hour concentration (µg/m³)	47.9	91.1	74.0
Measured Days above 24-hour federal standard (>35 µg/m³)	*	*	*
Nitrogen Dioxide (NO_2)			
Maximum 1-hour concentration (ppm)	0.058	0.057	0.055
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)	0.014	*	0.013
Exceed annual federal standard (0.053 ppm)	No	No	No
Exceed annual state standard (0.030 ppm)	No	No	No

Source: CARB 2021c
ppb = parts per billion; ppm = parts per million; µg/m³ = micrograms per cubic meter, * = insufficient data available.

As shown in Table 5, The 1- and 8-hour ozone standards were exceeded numerous times in each of the sample years. There is insufficient PM_{10}, and $PM_{2.5}$ data available for much of the sample period. Data for NO_2 showed no exceedances.

3.2.2 Greenhouse Gases

In 2018, total GHG emissions worldwide were estimated at 48,900 million metric tons (MMT) of CO_2e 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_2e, of which 82 percent was CO_2 emission (Climate Watch 2021). On a national level, 91 percent of GHG emissions were associated with transportation and electricity generation (Climate Watch 2021).

CARB performed statewide inventories for the years 1990 to 2017, as shown in Table 6, *California 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_2e.

Table 6
CALIFORNIA GREENHOUSE GAS EMISSIONS BY SECTOR

Sector	Emissions (MMT CO_2e)			
	1990	2000	2010	2019
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%)
TOTAL	**430.7**	**471.1**	**448.5**	**418.1**

Source: CARB 2007 and CARB 2021d
MMT = million metric tons; CO_2e = carbon dioxide equivalent

As shown in Table 6, statewide GHG source emissions totaled 431 MMT CO_2e in 1990, 471 MMT CO_2e in 2000, 449 MMT CO_2e in 2010, and 418 MMT CO_2e in 2019. Transportation-related emissions

consistently contribute the most GHG emissions, followed by electricity generation and industrial emissions (CARB 2007 and CARB 2021).

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA

4.1 METHODOLOGY

Criteria pollutant and GHG emissions were calculated using the California Emissions Estimator Model (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.

4.1.1 Construction Emissions

CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, diesel-engine classifications, and other selected emissions reduction measures. In compliance with SCAQMD Rule 403, fugitive dust emissions calculations assume application of water on exposed surface a minimum of two times per day, enforcing a 15-mph speed limit on unpaved surfaces, and maintaining a minimum 12 percent moisture content in unpaved roads and parking areas within the

project sate. Based on CalEEMod, Version 2020.4.0 defaults, the control efficiency for watering two times per day is 55 percent.

CalEEMod estimates construction emissions for each year of construction activity based on the annual construction equipment profile and other factors determined as needed to complete all phases of construction by the target completion year. As such, each year of construction activity has varying quantities of GHG emissions. Per SCAQMD guidance, total construction GHG emissions resulting from the project are amortized over 30 years and added to operational GHG emissions.

4.1.1.1 Construction Activities

Construction emissions were estimated based on the timeline provided by the project applicant, which assumes construction would occur over an approximately two-year period commencing with demolition in January 2023. 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 of underground utilities, paving, building construction, and architectural coatings. Construction is assumed to occur five days per week with equipment operating up to eight hours per day. Based on project-specific information provided by Century Communities, demolition would involve the removal of an approximately 5,000 square-foot structure and grading would involve the import of 2,727 cubic yards of fill material. Architectural coatings would occur concurrently with building construction—residences would be painted in sequence as they are completed. The construction schedule assumed in the modeling is shown in Table 7, *Anticipated Construction Schedule*.

Table 7
ANTICIPATED CONSTRUCTION SCHEDULE

Construction Activity	Construction Period Start	Construction Period End	Number of Working Days
Demolition	1/1/2023	1/20/2023	15
Site Preparation	1/23/2023	1/27/2023	5
Grading	1/30/2023	2/28/2023	22
Underground Utilities	3/1/2023	5/31/2023	66
Paving	6/1/2023	6/30/2023	22
Building Construction	7/1/2023	12/31/2024	392
Architectural Coatings	9/1/2024	12/31/2023	87

Source: Century Communities; CalEEMod

4.1.1.2 Construction Off-Road Equipment

Construction would require the use of heavy off-road equipment. Construction equipment estimates are based on default values in CalEEMod, with additional equipment added for excavation for underground utilities (based on assumptions used for similar projects). Table 8, *Construction Equipment Assumptions*, presents a summary of the assumed equipment that would be involved in each stage of construction.

Table 8
CONSTRUCTION EQUIPMENT ASSUMPTIONS

Equipment	Horsepower	Number	Hours/Day
Demolition			
Concrete/Industrial Saw	81	1	8
Excavators	158	1	8
Rubber Tired Dozers	247	2	8
Site Preparation			
Rubber Tired Dozers	247	3	8
Tractors/Loaders/Backhoes	97	4	8
Grading			
Excavators	158	1	8
Graders	187	1	8
Rubber Tired Dozers	247	1	8
Tractors/Loaders/Backhoes	97	3	8
Underground Utilities			
Tractors/Loaders/Backhoes	97	3	8
Paving			
Cement and Mortar Mixers	9	2	6
Pavers	130	1	8
Paving Equipment	132	2	6
Rollers	80	2	6
Tractors/Loaders/Backhoes	97	1	8
Building Construction			
Cranes	231	1	7
Forklifts	89	3	8
Generator Sets	84	1	8
Tractors/Loaders/Backhoes	97	3	7
Welders	46	1	8
Architectural Coating			
Air Compressors	78	1	6

Source: CalEEMod

4.1.1.3 Construction On-Road Trips

Worker commute trips and vendor delivery trips were modeled based on CalEEMod defaults. Worker trips are anticipated to vary between 8 and 72 trips per day, depending on construction activity. Demolition will result in 11 truckloads for debris hauling. Soil import during grading will require 170 truckloads. The CalEEMod default worker, vendor and haul trip distances were used in the model.

4.1.2 Operation Emissions

Operational impacts were estimated using CalEEMod. Operational sources of emissions include area, energy, transportation, water use, and solid waste.

4.1.2.1 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—in accordance with SCAQMD Rule 445, the project would not include wood burning stoves or fireplaces (SCAQMD 2020).

4.1.2.2 Energy Emissions

Development within the project would use electricity for lighting, heating, and cooling. Direct emissions from the burning of natural gas may result from furnaces, hot water heaters, and kitchen appliances. 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).

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. Based on an average area of the project homes, the project's residential buildings (65 dwelling units) total approximately 100,458 SF of conditioned space and would require solar panels producing a minimum of 155 kilowatts (kW).[2] 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 percent, which accounts for climate, daylight hours, roof pitch and orientation, and transmission loss, the power produced by the project's solar panels would be approximately 271,102 kilowatt-hours (kWhr) per year.[3]

4.1.2.3 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 Traffic Impact Analysis (TIA) prepared for the project, the project would generate 476 average daily trips (Kimley-Horn 2021). Trip distances and purposes were based on CalEEMod defaults.

[2] Per the 2019 Title 24 residential building energy efficiency requirements, the minimum solar electrical generation required is calculated by kW = (CFA x A)/1000 + (DU * B), where CFA is the conditioned floor area, A is 0.672 (climate zone 10 adjustment factor), DU is the total number of dwelling units, and B is 1.41 (climate zone 10 dwelling unit factor).

[3] Solar kWhr per year can be calculated by: kWhr/year = Power Output (kW) x 24 hours/day x 365.24 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.

4.1.2.4 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 account for mandatory compliance with AB 341 which is not included in the model defaults.

4.1.2.5 Water Sources

Water-related GHG emissions are from the conveyance and treatment of water. CalEEMod uses the CEC's 2006 *Refining Estimates of Water-Related Energy Use in California* to establish default water-related emission factors. Modeling was conducted using these defaults and a 20 percent reduction in potable water use and wastewater generation in accordance with 2019 CALGreen requirements not accounted for in the model defaults.

4.1.3 Localized Significance Threshold Methodology

As part of the SCAQMD's environmental justice program, more attention has been focused on localized air quality effects. Also, while regional impact analysis is based on attaining or maintaining regional emissions standards, localized impact analysis compares the concentration of a pollutant at a receptor site to a health-based standard.

SCAQMD has developed a localized significance threshold (LST) methodology and mass rate look-up tables by source receptor area (SRA) that can be used by public agencies to determine whether a project may generate significant adverse localized air quality impacts. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard; they are developed based on the ambient concentrations of that pollutant for each SRA (SCAQMD 2009). The LST methodology translates the concentration standards into emissions thresholds that are a function of project site area, source to receptor distance, and the location within the SCAB. The LST methodology is recommended to be limited to projects of 5 acres or less and to avoid the need for complex dispersion modeling. For projects that exceed 5 acres, such as the proposed project, the 5-acre LST look-up values can be used as a screening tool to determine which pollutants require detailed analysis (Sun 2017). This approach is conservative as it assumes that all on-site emissions would occur within a 5-acre area and over-predicts potential localized impacts (i.e., more pollutant emissions occurring within a smaller area and within closer proximity to potential sensitive receptors). If a project exceeds the LST look up values, then the SCAQMD recommends that project-specific localized air quality modeling be performed.

The proposed project is within SRA 32, Northwest San Bernardino Valley. The closest sensitive receptors are single-family residences adjacent to the eastern and southern boundaries of the project site. Therefore, the LSTs in SRA 32 for receptors located within 82 feet (25 meters) are used for project sites less than or equal to 5 acres.

4.2 SIGNIFICANCE CRITERIA

4.2.1 Air Quality

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:

1. Conflict with or obstruct implementation of the SCAQMD Air Quality Management Plan, or applicable portions of the SIP; or

2. Result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is non-attainment under an applicable NAAQS or CAAQS; or

3. Expose sensitive receptors to substantial pollutant concentrations; or

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

Appendix G of the State CEQA Guidelines states that the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the above determinations. The SCAQMD has established significance thresholds to assess the regional and localized impacts of project-related air pollutant emissions. The significance thresholds are updated, as needed, to appropriately represent the most current technical information and attainment status in the SCAB. Table 9, *SCAQMD Thresholds of Significance*, presents the most current significance thresholds, including regional daily thresholds for short-term construction and long-term operational emissions; maximum incremental cancer risk and hazard indices for TACs; and maximum ambient concentrations for exposure of sensitive receptors to localized pollutants. A project with daily emission rates, risk values, or concentrations below these thresholds is generally considered to have a less than significant effect on air quality.

Table 9
SCAQMD THRESHOLDS OF SIGNIFICANCE

Pollutant	Construction	Operation
Mass Daily Thresholds (pounds per day)		
VOC	75	55
NO_X	100	55
CO	550	550
PM_{10}	150	150
$PM_{2.5}$	55	55
SO_X	150	150
Lead	3	3
Toxic Air Contaminants		
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index ≥ 1.0 (project increment)	
Ambient Air Quality for Criteria Pollutants		
NO_2	1-hour average ≥ 0.18 ppm Annual average ≥ 0.03 ppm	
CO	1-hour average ≥ 20.0 ppm (state) 8-hour average ≥ 9.0 ppm (state/federal)	
PM_{10}	24-hour average ≥ 10.4 µg/m^3 (construction) 24-hour average ≥ 2.5 µg/m^3 (operation) Annual average ≥ 1.0 µg/m^3	
$PM_{2.5}$	24-hour average ≥ 10.4 µg/m^3 (construction) 24-hour average ≥ 2.5 µg/m^3 (operation)	
SO_2	1-hour average ≥ 0.075 ppm 24-hour average ≥ 0.04 ppm	

Source: SCAQMD 2015
lbs/day = pounds per day; VOC = volatile organic compound; NO_X = nitrogen oxides; CO = carbon monoxide; PM_{10} = respirable particulate matter with a diameter of 10 microns or less; $PM_{2.5}$ = fine particulate matter with a diameter of 2.5 microns or less; SO_X = sulfur oxides; TACs = toxic air contaminants; GHG = greenhouse gas emissions; MT/yr = metric tons per year; CO_2e = carbon dioxide equivalent; NO_2 = nitrogen dioxide; ppm = parts per million; µg/m^3 = micrograms per cubic meter

4.2.2 Greenhouse Gases

Given the relatively small levels of emissions generated by a typical development 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, given 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. Therefore, 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; or

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

CEQA Section 15064.4 states that a CEQA 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." It also states that the lead agency has the discretion to determine the methodology to assess the significance of GHG emissions on the environment. Accordingly, the following section describes the threshold of significance applied to the project.

On December 30, 2009, the Natural Resources Agency adopted amendments to the State CEQA Guidelines that became effective on March 18, 2010. The amendments to the State CEQA Guidelines include new requirements for evaluating GHG emissions. Pursuant to the amended State CEQA Guidelines, a lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment:

The extent to which the project may increase (or reduce) GHG emissions compared to the existing environmental setting;

Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and/or

The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

The City, as a lead agency, may assess the significance of GHG emissions by determining a project's consistency with a local GHG reduction plan that qualifies under Section 15183.5 of the CEQA Guidelines.

To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, SCAQMD has convened a GHG CEQA Significance Threshold Working Group (Working Group). Based on the last Working Group meeting held in September 2010 (Meeting No. 15), the SCAQMD proposed to adopt a tiered approach for evaluating GHG emissions for development projects where the SCAQMD is not the lead agency:

Tier 1. Exemptions: If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.

Tier 2. Consistency with a Locally Adopted GHG Reduction Plan: If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (i.e., city or county), project-level and cumulative GHG emissions are less than significant.

Tier 3. Numerical Screening Threshold: If GHG emissions are less than the numerical screening-level threshold, project-level and cumulative GHG emissions are less than significant.

For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, the SCAQMD requires an assessment of GHG emissions. SCAQMD, under Option 1, proposed a "bright-line" screening-level threshold of 3,000 MT CO_2e per year for all land use types or, under Option 2, the following land-use-specific thresholds: 1,400 MT CO_2e for commercial projects, 3,500 MT CO_2e for

residential projects, or 3,000 MT CO_2e for mixed-use projects. This bright-line threshold is based on a review of the OPR database of CEQA projects. Based on that review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds identified above. Therefore, projects that do not exceed the bright-line threshold would have a nominal and therefore less than cumulatively considerable impact on GHG emissions.

Tier 4. **Performance Standards:** If emissions exceed the numerical screening threshold, a more detailed review of the project's GHG emissions is warranted. The SCAQMD has proposed an efficiency target for projects that exceed the bright-line threshold. The current recommended approach is per-capita efficiency targets. The SCAQMD is not recommending use of a percent emissions reduction target. Instead, the SCAQMD proposes proposed a 2020 efficiency target of 4.8 MT CO_2e per year per service population for project-level analyses and 6.6 MT CO_2e per year per service population for plan-level projects (e.g., program-level projects such as General Plans). The GHG efficiency metric divides annualized GHG emissions by the service population, which is the sum of residents and employees, per the following equation:

Rate of Emission= GHG Emissions (MT CO2e/yr) ÷ Service Population

The efficiency evaluation consists of comparing the project's efficiency metric to efficiency targets. Efficiency targets represent the maximum quantity of emissions each resident and employee in California could emit in various years based on emission levels necessary to achieve the statewide GHG emissions reduction goals. A project that results in a lower rate of emissions would be more efficient than a project with a higher rate of emissions, based on the same service population. The metric considers GHG reduction measures integrated into a project's design and operation (or through mitigation). The per capita efficiency targets are based on the AB 32 GHG reduction target and 2020 GHG emissions inventory prepared for CARB's 2008 Scoping Plan.

Because the project would begin operations in the post-2020 timeframe, the 2020 numerical screening threshold of 3,000 MT CO_2e and the efficiency target of 4.8 MT CO_2e per year per service population would need to be adjusted to reflect the State's post-2020 GHG reduction goals.

CARB has completed a Scoping Plan, which will be utilized by the SCAQMD to establish the 2030 GHG efficiency threshold. SCAQMD has yet to publish a quantified GHG efficiency threshold for the 2030 target. A scaled threshold consistent with State goals detailed in SB 32, Executive Order B-30-15, and Executive Order S-3-05 to reduce GHG emissions by 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050, respectively, was developed for 2025, when the proposed project is anticipated to be operational. Though the SCAQMD has not published a quantified threshold beyond 2020, this assessment uses a threshold of 2,324 MT CO_2e per year or 3.7 MT CO_2e/yr/SP, which was calculated for the buildout year of 2025 based on the GHG reduction goals of SB 32 and Executive Order B-30-15.

For the purpose of this analysis, the proposed project will first be compared to the adjusted screening-level Tier 3 Numerical Screening Threshold of 2,324 MT CO_2e per year for all land use types. If it is determined that the proposed project is estimated to exceed this screening threshold, it will then be compared to the efficiency-based threshold.

5.0 AIR QUALITY IMPACT ANALYSIS

This section evaluates potential direct impacts of the proposed project related to the air pollutant emissions. Project-level air quality modeling was completed as part of this analysis. Complete modeling results are included as Appendix A of this report.

5.1 ISSUE 1: CONSISTENCY WITH AIR QUALITY PLANS

5.1.1 Impacts

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties, and addresses regional issues relating to transportation, economy, community development, and environment. With regard to air quality planning, SCAG has prepared the RTP/SCS, a long-range transportation plan that uses growth forecasts to project trends out over a 20-year period to identify regional transportation strategies to address mobility needs. These growth forecasts form the basis for the land use and transportation control portions of the AQMP. These documents are utilized in the preparation of the air quality forecasts and consistency analysis included in the AQMP. Both the RTP/SCS and AQMP are based, in part, on projections originating with County and City General Plans.[4]

The project site is designated as LI-BP in the General Plan and is zoned as LI; the project would require a General Plan Amendment and zone change to Specific Plan and RM-20 Residential, MF 20 dwelling units (du) per acre.

The City of Upland has recognized the potential for the project site to accommodate 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 Assessment (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, that is undergoing the approval process, 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 Upland a new housing need of 5,686 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 AQMP. 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 AQMP, which is crafted to bring the basin into attainment for all criteria pollutants. Additionally, as detailed in Section 5.2, below, the project would not result in any construction or operational period

[4] SCAG serves as the federally designated metropolitan planning organization for the southern California region.

emissions in exceedance of established thresholds. Therefore, the proposed project would not conflict with or obstruct implementation of the AQMP.

5.1.2 Significance of Impacts

Implementation of the project would not conflict with or obstruct implementation of the SCAQMD's AQMP, and the impact would be less than significant.

5.1.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.1.4 Significance After Mitigation

Impacts related to conflicts with the applicable air quality plan would be less than significant.

5.2 ISSUE 2: CUMULATIVELY CONSIDERABLE NET INCREASE OF NONATTAINMENT CRITERIA POLLUTANTS

By its very nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development within the SCAB. The region is a federal and/or state nonattainment area for ozone, PM_{10} and $PM_{2.5}$. In accordance with CEQA Guidelines Section 15064(h)(3), the SCAQMD's approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and State Clean Air Acts. If a project conflicts with the AQMP, which is intended to bring the SCAB into attainment for all criteria pollutants, that project can be considered cumulatively considerable. Additionally, if the mass regional emissions calculated for a project exceed the applicable SCAQMD daily significance thresholds that are designed to assist the region in attaining the applicable state and national ambient air quality standards, that project can be considered cumulatively considerable. As discussed in Issue 1, above, the project would not conflict with or obstruct implementation of the AQMP. A comparison of the project mass regional emissions with the applicable SCAQMD daily significance thresholds is provided below.

5.2.1 Impacts

The project would generate criteria pollutants and precursors in the short-term during construction and the long-term during operation. To determine whether a project would result in cumulatively considerable 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 SCAQMD (as shown in Table 9).

5.2.1.1 Construction

The project's construction emissions were estimated using the CalEEMod model as described in Section 4.1.1. Additional details of phasing, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

The results of the calculations for project construction are shown in Table 10, *Unmitigated Daily Construction Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the SCAQMD thresholds.

Table 10
DAILY CONSTRUCTION EMISSIONS

Phase	ROG (lb/day)	NO_X (lb/day)	CO (lb/day)	SO_X (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
Demolition	2.33	21.70	20.16	0.04	1.34	1.00
Site Preparation	2.73	27.57	18.80	0.04	10.31	5.77
Grading	1.80	19.77	15.74	0.04	4.43	2.39
Underground Utilities	0.48	4.61	6.92	0.01	0.32	0.23
Paving	1.16	8.84	12.81	0.02	0.66	0.46
Building Construction	1.86	15.19	18.74	0.04	1.62	0.91
Architectural Coatings	5.10	1.25	2.22	<0.01	0.22	0.10
Maximum Daily Emissions[1,2]	**6.84**	**27.57**	**20.72**	**0.04**	**10.31**	**5.77**
SCAQMD Thresholds	*75*	*100*	*550*	*150*	*150*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod; USEPA AP-42 (output data is provided in Appendix A)
[1] Maximum daily emissions of ROG and CO would occur during concurrent building construction and architectural coatings.
[2] Totals may not sum due to rounding.
lb/day = pounds per day; ROG = reactive organic gas; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 10, project emissions during construction would not exceed the daily thresholds set by the SCAQMD.

5.2.1.2 Operation

The project's operational emissions were estimated using the CalEEMod model as described in Section 4.1.2. Model outputs are provided in Appendix A. Table 11, *Daily Operational Emissions*, presents the summary of operational emissions for the project. The data are presented as the maximum anticipated daily emissions for comparison with the SCAQMD thresholds.

Table 11
DAILY OPERATIONAL EMISSIONS

Category	ROG (lb/day)	NO_X (lb/day)	CO (lb/day)	SO_X (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
Area	1.59	0.06	5.36	<0.01	0.03	0.03
Energy	0.04	0.35	0.15	<0.01	0.03	0.03
Mobile	1.50	2.02	14.63	0.03	3.46	0.94
Maximum Daily Emissions[1]	**3.13**	**2.43**	**20.14**	**0.04**	**3.52**	**1.00**
SCAQMD Thresholds	*55*	*55*	*550*	*150*	*150*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
lb/day = pounds per day; ROG = reactive organic gas; NO_X = nitrogen oxides; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 11, project emissions during operation would not exceed the daily thresholds set by the SCAQMD.

5.2.2 Significance of Impacts

Construction and operation of the project would not result in criteria pollutant and precursor pollutant emissions that would exceed the SCAQMD significance thresholds, and the impact would be less than significant.

5.2.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.2.4 Significance After Mitigation

The project would not result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is non-attainment, and the impact would less than significant.

5.3 ISSUE 3: IMPACTS TO SENSITIVE RECEPTORS

5.3.1 Impacts

5.3.1.1 Construction Activities

Criteria Pollutants

The localized effects from the on-site portion of daily construction emissions were evaluated at sensitive receptor locations potentially impacted by the project according to the SCAQMD's LST method, described above. The proposed project is within SRA 32, Northwest San Bernardino Valley. Consistent with the LST guidelines, when quantifying mass emissions for localized analysis, only emissions that occur on site are considered. Emissions related to off-site delivery/haul truck activity and construction worker trips are not considered in the evaluation of construction-related localized impacts, as these do not contribute to emissions generated on a project site. The closest sensitive receptors are residences adjacent to the east and southern boundaries of the project site. Therefore, the LSTs in SRA 24 for receptors located less than 82 feet (25 meters) are used for project sites greater than 5 acres. Table 12, *Maximum Localized Daily Construction Emissions*, shows the localized construction emissions.

Table 12
MAXIMUM LOCALIZED DAILY CONSTRUCTION EMISSIONS

Activity	NO_X (lb/day)	CO (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
Demolition	21.48	19.64	1.15	0.95
Site Preparation	27.52	18.24	10.11	5.71
Grading	17.94	14.75	3.97	2.26
Underground Utilities	4.59	6.67	0.23	0.21
Paving	8.79	12.19	0.44	0.40
Building Construction	14.38	16.24	0.70	0.66
Architectural Coatings	1.22	1.81	0.06	0.06
Maximum Daily Emissions	**27.52**	**19.64**	**10.11**	**5.71**
SCAQMD LST Thresholds	*270*	*2,193*	*16*	*9*
Exceed LST?	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
lb/day = pounds per day; NO_X = nitrogen oxides; CO = carbon monoxide; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 12, localized emissions for all criteria pollutants would remain below their respective SCAQMD LSTs. Therefore, construction of the project would not result in exposure of sensitive receptors to substantial localized concentrations of criteria pollutants and precursors.

Toxic Air Contaminants

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 quantity 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 (Office of Environmental Health Hazard Assessment [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.

5.3.1.2 Operational Activities

CO Hotspots

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 "hotspots" 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.

CARB 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 TIA (Kimley-Horn 2021) evaluated whether there would be a change in the LOS at the intersections affected by the proposed project. In accordance with the Transportation Project-Level Carbon Monoxide Protocol, CO hot spots are typically evaluated when: (a) the LOS of an intersection decreases to a LOS E or worse because of the project; (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 (California Department of Transportation [Caltrans] 1998).

According to the TIA, all of the analyzed intersections are forecast to operate at LOS C or better in the project opening year condition, without implementation of the project. Implementation of the project would not result in the LOS of any of the analyzed intersections degrading (Kimley-Horn 2021). Therefore, consistent with the CO Protocol, operation of the project would not result in exposure of sensitive receptors to substantial localized CO concentrations.

New Sensitive Receptors

As a residential development, the project would site new sensitive receptors. The CARB siting recommendations within the Air Quality and Land Use Handbook suggest a detailed health risk assessment should be conducted for proposed sensitive receptors within 1,000 feet of a warehouse distribution center, within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater), 50 feet of a typical gas dispensing facilities or within 300 feet of a dry cleaning facility that uses perchloroethylene (PCE), among other siting recommendations (CARB 2005). There are no facilities of this type within 1,000 feet of the project site. In addition, the closest high-volume roadway (more than 10,000 ADT) would be Interstate 10, approximately 0.9 mile southwest of the project site. Therefore, future project residents would not be exposed to substantial concentrations of TACs.

5.3.2 Significance of Impacts

Implementation of the project would not expose sensitive receptors to substantial pollutant concentrations, and the impact would be less than significant.

5.3.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.3.4 Significance After Mitigation

Implementation of the project would not expose sensitive receptors to substantial pollutant concentrations, and the impact would be less than significant.

5.4 ISSUE 4: OTHER EMISSIONS (SUCH AS THOSE LEADING TO ODORS)

5.4.1 Impacts

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.

5.4.2 Significance of Impacts

Implementation of the project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and the impact would be less than significant.

5.4.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.4.4 Significance After Mitigation

Implementation of the project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and the impact would be less than significant.

6.0 GREENHOUSE GAS IMPACT ANALYSIS

This section evaluates potential impacts of the proposed project related to the generation of GHG emissions. Complete modeling results are included as Appendix A of this report.

6.1 ISSUE 1: GREENHOUSE GAS EMISSIONS

6.1.1 Construction Emissions

Project construction GHG emissions were estimated using the CalEEMod model as described in Section 4.1. Project-specific input was based on general information provided in Section 1.0 and default model settings to estimate reasonably conservative conditions. Additional details of phasing, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

Emissions of GHGs related to the construction of the project would be temporary. As shown in Table 13, *Estimated Construction GHG Emissions*, total GHG emissions associated with construction of the project are estimated at 780 MT CO_2e. For construction emissions, SCAQMD guidance recommends that the emissions be amortized (i.e., averaged) over 30 years and added to operational emissions. Averaged over 30 years, the proposed construction activities would contribute approximately 26 MT CO_2e emissions per year.

Table 13
ESTIMATED CONSTRUCTION GHG EMISSIONS

Year/Activity	Emissions (MT CO_2e)
Demolition	27.31
Site Preparation	8.82
Grading	40.26
Underground Utilities	29.47
Paving	20.06
Building Construction	637.33
Architectural Coatings	16.27
TOTAL[1]	**779.52**
Amortized Construction Emissions[2]	*25.98*

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
[2] Construction emissions are amortized over 30 years in accordance with SCAQMD guidance.
GHG = greenhouse gas; MT = metric tons; CO_2e = carbon dioxide equivalent

6.1.2 Operational Emissions

Table 14, *Total Estimated Operational GHG Emissions*, shows the calculated total annual emissions for the project. The emissions include the amortized annual construction emissions anticipated for the project. Appendix A contains the CalEEMod output files for the project.

Table 14
TOTAL ESTIMATED OPERATIONAL GHG EMISSIONS

Emission Sources	2020 Emissions (MT CO_2e)
Area Sources	1.12
Energy Sources	82.93
Vehicular (Mobile) Sources	545.11
Solid Waste Sources	11.28
Water Sources	16.71
Subtotal[1]	**657.14**
Construction (Annualized over 30 years)	25.98
TOTAL[1]	**683.13**
SCAQMD Adjusted Threshold	**2,324**
Exceed Threshold?	**No**

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
[2] Emission per capita is the project total emissions divided by the project population (2,535.5/764).
GHG = greenhouse gas; MT = metric tons; CO_2e = carbon dioxide equivalent

As shown in Table 14, the project emissions would not exceed the SCAQMD threshold adjusted for compliance with SB 32.

6.1.3 Significance of Impacts

Implementation of the project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, and the impact would be less than significant.

6.1.4 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

6.1.5 Significance After Mitigation

Implementation of the project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, and the impact would be less than significant.

6.2 ISSUE 2: CONFLICT WITH APPLICABLE PLANS ADOPTED FOR THE PURPOSE OF REDUCING GHG EMISSIONS

6.2.1 Impacts

There are numerous State plans, policies, and regulations adopted for the purpose of reducing GHG emissions. The principal overall State plan and policy is AB 32, the California Global Warming Solutions Act of 2006. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020. SB 32 would require further reductions of 40 percent below 1990 levels by 2030. Because the project's operational year is post-2020, the project aims to reach the quantitative goals set by SB 32. Statewide plans and regulations such as GHG emissions standards for vehicles (AB 1493), the LCFS, and regulations requiring an increasing fraction of electricity to be generated from renewable sources are being

implemented at the statewide level; as such, compliance at the project level is not addressed. Therefore, the proposed project would not conflict with those plans and regulations.

The project must also be constructed in accordance with the energy-efficiency standards, water reduction goals, and other standards contained in the 2019 Title 24 Part 6 Building Energy Efficiency Standards and Part 11 (CALGreen) Building Standards, including the requirement for onsite solar electricity generation.

6.2.2 Significance of Impacts

The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and the impact would be less than significant.

6.2.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

6.2.4 Significance After Mitigation

The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and the impact would be less than significant.

7.0 LIST OF PREPARERS

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Appendix A

CalEEMod Output

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

Arrow 32N Residential

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	65.00	Dwelling Unit	3.52	65,000.00	186
Other Asphalt Surfaces	60.00	1000sqft	1.38	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 65 DU and 60 ksf of asphalt on 4.9 acres

Construction Phase - Schedule provided by Century Communities

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Demolition -

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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

Vehicle Trips - Kimley-Horn 2021

Woodstoves - SCAQMD Rule 445 prohibits woodburning devices

Construction Off-road Equipment Mitigation -

Energy Mitigation - 2019 Title 24 requirements

Water Mitigation - CALGreen requirements

Waste Mitigation - AB341

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	87.00
tblConstructionPhase	NumDays	230.00	392.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	8.00	22.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	PhaseEndDate	2/22/2024	12/31/2024
tblConstructionPhase	PhaseEndDate	1/3/2024	12/31/2024
tblConstructionPhase	PhaseEndDate	1/27/2023	1/20/2023
tblConstructionPhase	PhaseEndDate	2/15/2023	2/28/2023
tblConstructionPhase	PhaseEndDate	1/29/2024	6/30/2023
tblConstructionPhase	PhaseEndDate	2/3/2023	1/27/2023
tblConstructionPhase	PhaseStartDate	1/30/2024	9/1/2024
tblConstructionPhase	PhaseStartDate	2/16/2023	7/1/2023
tblConstructionPhase	PhaseStartDate	2/4/2023	1/30/2023
tblConstructionPhase	PhaseStartDate	1/4/2024	6/1/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/23/2023
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	65.00

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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

tblFireplaces	NumberWood	3.25	0.00
tblGrading	MaterialImported	0.00	2,727.00
tblLandUse	LotAcreage	4.06	3.52
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblVehicleTrips	ST_TR	8.14	7.32
tblVehicleTrips	SU_TR	6.28	7.32
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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					
2023	0.1923	1.6866	1.9663	3.7900e-003	0.1999	0.0777	0.2777	0.0822	0.0726	0.1548	0.0000	334.5443	334.5443	0.0715	5.7200e-003	338.0378
2024	0.4473	1.9202	2.5339	4.9500e-003	0.1241	0.0841	0.2083	0.0333	0.0793	0.1126	0.0000	437.2637	437.2637	0.0755	7.8200e-003	441.4800
Maximum	**0.4473**	**1.9202**	**2.5339**	**4.9500e-003**	**0.1999**	**0.0841**	**0.2777**	**0.0822**	**0.0793**	**0.1548**	**0.0000**	**437.2637**	**437.2637**	**0.0755**	**7.8200e-003**	**441.4800**

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					
2023	0.1923	1.6866	1.9663	3.7900e-003	0.1286	0.0777	0.2063	0.0474	0.0726	0.1199	0.0000	334.5440	334.5440	0.0715	5.7200e-003	338.0375
2024	0.4473	1.9202	2.5339	4.9500e-003	0.1241	0.0841	0.2083	0.0333	0.0793	0.1126	0.0000	437.2633	437.2633	0.0755	7.8200e-003	441.4796
Maximum	**0.4473**	**1.9202**	**2.5339**	**4.9500e-003**	**0.1286**	**0.0841**	**0.2083**	**0.0474**	**0.0793**	**0.1199**	**0.0000**	**437.2633**	**437.2633**	**0.0755**	**7.8200e-003**	**441.4796**

Arrow 32N Residential - San Bernardino-South Coast County, 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**22.01**	**0.00**	**14.68**	**30.16**	**0.00**	**13.03**	**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	**1-1-2023**	**3-31-2023**	0.5132	0.5132
2	**4-1-2023**	**6-30-2023**	0.2180	0.2180
3	**7-1-2023**	**9-30-2023**	0.5594	0.5594
4	**10-1-2023**	**12-31-2023**	0.5604	0.5604
5	**1-1-2024**	**3-31-2024**	0.5193	0.5193
6	**4-1-2024**	**6-30-2024**	0.5183	0.5183
7	**7-1-2024**	**9-30-2024**	0.5920	0.5920
		Highest	0.5920	0.5920

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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	tons/yr										MT/yr					
Area	0.2801	7.7200e-003	0.6705	4.0000e-005		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	1.0965	1.0965	1.0500e-003	0.0000	1.1228
Energy	7.4000e-003	0.0632	0.0269	4.0000e-004		5.1100e-003	5.1100e-003		5.1100e-003	5.1100e-003	0.0000	130.5232	130.5232	6.2400e-003	1.9300e-003	131.2539
Mobile	0.2365	0.3746	2.4811	5.6600e-003	0.6130	4.5200e-003	0.6175	0.1637	4.2300e-003	0.1680	0.0000	536.5358	536.5358	0.0295	0.0263	545.1088
Waste						0.0000	0.0000		0.0000	0.0000	6.0694	0.0000	6.0694	0.3587	0.0000	15.0368
Water						0.0000	0.0000		0.0000	0.0000	1.3436	15.0401	16.3837	0.1393	3.4100e-003	20.8822
Total	**0.5240**	**0.4455**	**3.1784**	**6.1000e-003**	**0.6130**	**0.0134**	**0.6264**	**0.1637**	**0.0131**	**0.1768**	**7.4130**	**683.1955**	**690.6085**	**0.5347**	**0.0316**	**713.4044**

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	0.2801	7.7200e-003	0.6705	4.0000e-005		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	1.0965	1.0965	1.0500e-003	0.0000	1.1228
Energy	7.4000e-003	0.0632	0.0269	4.0000e-004		5.1100e-003	5.1100e-003		5.1100e-003	5.1100e-003	0.0000	82.4445	82.4445	2.1800e-003	1.4400e-003	82.9271
Mobile	0.2365	0.3746	2.4811	5.6600e-003	0.6130	4.5200e-003	0.6175	0.1637	4.2300e-003	0.1680	0.0000	536.5358	536.5358	0.0295	0.0263	545.1088
Waste						0.0000	0.0000		0.0000	0.0000	4.5521	0.0000	4.5521	0.2690	0.0000	11.2776
Water						0.0000	0.0000		0.0000	0.0000	1.0749	12.0321	13.1069	0.1114	2.7300e-003	16.7058
Total	**0.5240**	**0.4455**	**3.1784**	**6.1000e-003**	**0.6130**	**0.0134**	**0.6264**	**0.1637**	**0.0131**	**0.1768**	**5.6269**	**632.1087**	**637.7357**	**0.4132**	**0.0305**	**657.1420**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**24.09**	**7.48**	**7.66**	**22.74**	**3.70**	**7.89**

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	1/1/2023	1/20/2023	5	15	
2	Site Preparation	Site Preparation	1/23/2023	1/27/2023	5	5	
3	Grading	Grading	1/30/2023	2/28/2023	5	22	

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

4	Building Construction	Building Construction	7/1/2023	12/31/2024	5	392	
5	Paving	Paving	6/1/2023	6/30/2023	5	22	
6	Architectural Coating	Architectural Coating	9/1/2024	12/31/2024	5	87	
7	Underground Utilites	Trenching	3/1/2023	5/31/2023	5	66	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 22

Acres of Paving: 1.38

Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,600 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37

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

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Underground Utilites	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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	23.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	341.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	72.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Underground Utilites	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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

3.2 Demolition - 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					
Fugitive Dust					2.4600e-003	0.0000	2.4600e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1611	0.1473	2.9000e-004		7.4800e-003	7.4800e-003		6.9600e-003	6.9600e-003	0.0000	25.4941	25.4941	7.1400e-003	0.0000	25.6726
Total	**0.0170**	**0.1611**	**0.1473**	**2.9000e-004**	**2.4600e-003**	**7.4800e-003**	**9.9400e-003**	**3.7000e-004**	**6.9600e-003**	**7.3300e-003**	**0.0000**	**25.4941**	**25.4941**	**7.1400e-003**	**0.0000**	**25.6726**

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	3.0000e-005	1.3400e-003	3.9000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6391	0.6391	3.0000e-005	1.0000e-004	0.6699
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	3.9000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9634	0.9634	3.0000e-005	3.0000e-005	0.9718
Total	**4.2000e-004**	**1.6300e-003**	**4.0500e-003**	**2.0000e-005**	**1.4300e-003**	**2.0000e-005**	**1.4500e-003**	**3.8000e-004**	**2.0000e-005**	**4.0000e-004**	**0.0000**	**1.6025**	**1.6025**	**6.0000e-005**	**1.3000e-004**	**1.6418**

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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

3.2 Demolition - 2023

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					1.1100e-003	0.0000	1.1100e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1611	0.1473	2.9000e-004		7.4800e-003	7.4800e-003		6.9600e-003	6.9600e-003	0.0000	25.4940	25.4940	7.1400e-003	0.0000	25.6725
Total	**0.0170**	**0.1611**	**0.1473**	**2.9000e-004**	**1.1100e-003**	**7.4800e-003**	**8.5900e-003**	**1.7000e-004**	**6.9600e-003**	**7.1300e-003**	**0.0000**	**25.4940**	**25.4940**	**7.1400e-003**	**0.0000**	**25.6725**

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	3.0000e-005	1.3400e-003	3.9000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6391	0.6391	3.0000e-005	1.0000e-004	0.6699
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	3.9000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9634	0.9634	3.0000e-005	3.0000e-005	0.9718
Total	**4.2000e-004**	**1.6300e-003**	**4.0500e-003**	**2.0000e-005**	**1.4300e-003**	**2.0000e-005**	**1.4500e-003**	**3.8000e-004**	**2.0000e-005**	**4.0000e-004**	**0.0000**	**1.6025**	**1.6025**	**6.0000e-005**	**1.3000e-004**	**1.6418**

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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

3.3 Site Preparation - 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					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0491**	**3.1700e-003**	**0.0523**	**0.0253**	**2.9100e-003**	**0.0282**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

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	1.6000e-004	1.2000e-004	1.4600e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3854	0.3854	1.0000e-005	1.0000e-005	0.3887
Total	**1.6000e-004**	**1.2000e-004**	**1.4600e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3854**	**0.3854**	**1.0000e-005**	**1.0000e-005**	**0.3887**

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

3.3 Site Preparation - 2023

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					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0221**	**3.1700e-003**	**0.0253**	**0.0114**	**2.9100e-003**	**0.0143**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

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	1.6000e-004	1.2000e-004	1.4600e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3854	0.3854	1.0000e-005	1.0000e-005	0.3887
Total	**1.6000e-004**	**1.2000e-004**	**1.4600e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3854**	**0.3854**	**1.0000e-005**	**1.0000e-005**	**0.3887**

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

3.4 Grading - 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					
Fugitive Dust					0.0781	0.0000	0.0781	0.0377	0.0000	0.0377	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0188	0.1973	0.1623	3.3000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	28.6667	28.6667	9.2700e-003	0.0000	28.8985
Total	**0.0188**	**0.1973**	**0.1623**	**3.3000e-004**	**0.0781**	**8.5200e-003**	**0.0866**	**0.0377**	**7.8400e-003**	**0.0455**	**0.0000**	**28.6667**	**28.6667**	**9.2700e-003**	**0.0000**	**28.8985**

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	4.0000e-004	0.0198	5.7500e-003	1.0000e-004	2.9400e-003	2.0000e-004	3.1300e-003	8.1000e-004	1.9000e-004	1.0000e-003	0.0000	9.4748	9.4748	4.0000e-004	1.5000e-003	9.9324
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	5.7000e-004	4.3000e-004	5.3700e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4130	1.4130	4.0000e-005	4.0000e-005	1.4253
Total	**9.7000e-004**	**0.0203**	**0.0111**	**1.2000e-004**	**4.7500e-003**	**2.1000e-004**	**4.9500e-003**	**1.2900e-003**	**2.0000e-004**	**1.4900e-003**	**0.0000**	**10.8878**	**10.8878**	**4.4000e-004**	**1.5400e-003**	**11.3577**

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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

3.4 Grading - 2023

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					0.0351	0.0000	0.0351	0.0170	0.0000	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0188	0.1973	0.1623	3.3000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	28.6666	28.6666	9.2700e-003	0.0000	28.8984
Total	**0.0188**	**0.1973**	**0.1623**	**3.3000e-004**	**0.0351**	**8.5200e-003**	**0.0437**	**0.0170**	**7.8400e-003**	**0.0248**	**0.0000**	**28.6666**	**28.6666**	**9.2700e-003**	**0.0000**	**28.8984**

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	4.0000e-004	0.0198	5.7500e-003	1.0000e-004	2.9400e-003	2.0000e-004	3.1300e-003	8.1000e-004	1.9000e-004	1.0000e-003	0.0000	9.4748	9.4748	4.0000e-004	1.5000e-003	9.9324
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	5.7000e-004	4.3000e-004	5.3700e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4130	1.4130	4.0000e-005	4.0000e-005	1.4253
Total	**9.7000e-004**	**0.0203**	**0.0111**	**1.2000e-004**	**4.7500e-003**	**2.1000e-004**	**4.9500e-003**	**1.2900e-003**	**2.0000e-004**	**1.4900e-003**	**0.0000**	**10.8878**	**10.8878**	**4.4000e-004**	**1.5400e-003**	**11.3577**

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

3.5 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	0.1022	0.9350	1.0559	1.7500e-003		0.0455	0.0455		0.0428	0.0428	0.0000	150.6731	150.6731	0.0358	0.0000	151.5692
Total	**0.1022**	**0.9350**	**1.0559**	**1.7500e-003**		**0.0455**	**0.0455**		**0.0428**	**0.0428**	**0.0000**	**150.6731**	**150.6731**	**0.0358**	**0.0000**	**151.5692**

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	1.2500e-003	0.0408	0.0165	2.0000e-004	6.9700e-003	2.9000e-004	7.2600e-003	2.0100e-003	2.8000e-004	2.2900e-003	0.0000	19.2583	19.2583	5.0000e-004	2.8500e-003	20.1189
Worker	0.0163	0.0122	0.1523	4.3000e-004	0.0513	2.6000e-004	0.0516	0.0136	2.4000e-004	0.0139	0.0000	40.0776	40.0776	1.0500e-003	1.0900e-003	40.4279
Total	**0.0176**	**0.0529**	**0.1688**	**6.3000e-004**	**0.0583**	**5.5000e-004**	**0.0588**	**0.0156**	**5.2000e-004**	**0.0162**	**0.0000**	**59.3359**	**59.3359**	**1.5500e-003**	**3.9400e-003**	**60.5469**

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

3.5 Building Construction - 2023

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	0.1022	0.9350	1.0559	1.7500e-003		0.0455	0.0455		0.0428	0.0428	0.0000	150.6729	150.6729	0.0358	0.0000	151.5690
Total	**0.1022**	**0.9350**	**1.0559**	**1.7500e-003**		**0.0455**	**0.0455**		**0.0428**	**0.0428**	**0.0000**	**150.6729**	**150.6729**	**0.0358**	**0.0000**	**151.5690**

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	1.2500e-003	0.0408	0.0165	2.0000e-004	6.9700e-003	2.9000e-004	7.2600e-003	2.0100e-003	2.8000e-004	2.2900e-003	0.0000	19.2583	19.2583	5.0000e-004	2.8500e-003	20.1189
Worker	0.0163	0.0122	0.1523	4.3000e-004	0.0513	2.6000e-004	0.0516	0.0136	2.4000e-004	0.0139	0.0000	40.0776	40.0776	1.0500e-003	1.0900e-003	40.4279
Total	**0.0176**	**0.0529**	**0.1688**	**6.3000e-004**	**0.0583**	**5.5000e-004**	**0.0588**	**0.0156**	**5.2000e-004**	**0.0162**	**0.0000**	**59.3359**	**59.3359**	**1.5500e-003**	**3.9400e-003**	**60.5469**

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

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	2.4500e-003	0.0829	0.0327	3.9000e-004	0.0141	5.8000e-004	0.0146	4.0500e-003	5.5000e-004	4.6100e-003	0.0000	38.2785	38.2785	9.8000e-004	5.6600e-003	39.9884
Worker	0.0306	0.0218	0.2861	8.4000e-004	0.1034	5.0000e-004	0.1039	0.0275	4.6000e-004	0.0279	0.0000	79.0520	79.0520	1.9200e-003	2.0300e-003	79.7051
Total	**0.0330**	**0.1047**	**0.3188**	**1.2300e-003**	**0.1175**	**1.0800e-003**	**0.1185**	**0.0315**	**1.0100e-003**	**0.0325**	**0.0000**	**117.3305**	**117.3305**	**2.9000e-003**	**7.6900e-003**	**119.6935**

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

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	2.4500e-003	0.0829	0.0327	3.9000e-004	0.0141	5.8000e-004	0.0146	4.0500e-003	5.5000e-004	4.6100e-003	0.0000	38.2785	38.2785	9.8000e-004	5.6600e-003	39.9884
Worker	0.0306	0.0218	0.2861	8.4000e-004	0.1034	5.0000e-004	0.1039	0.0275	4.6000e-004	0.0279	0.0000	79.0520	79.0520	1.9200e-003	2.0300e-003	79.7051
Total	**0.0330**	**0.1047**	**0.3188**	**1.2300e-003**	**0.1175**	**1.0800e-003**	**0.1185**	**0.0315**	**1.0100e-003**	**0.0325**	**0.0000**	**117.3305**	**117.3305**	**2.9000e-003**	**7.6900e-003**	**119.6935**

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

3.6 Paving - 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	0.0101	0.0967	0.1341	2.1000e-004		4.7900e-003	4.7900e-003		4.4300e-003	4.4300e-003	0.0000	18.0165	18.0165	5.6600e-003	0.0000	18.1580
Paving	1.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0119**	**0.0967**	**0.1341**	**2.1000e-004**		**4.7900e-003**	**4.7900e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**18.0165**	**18.0165**	**5.6600e-003**	**0.0000**	**18.1580**

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	7.7000e-004	5.7000e-004	7.1600e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8840	1.8840	5.0000e-005	5.0000e-005	1.9005
Total	**7.7000e-004**	**5.7000e-004**	**7.1600e-003**	**2.0000e-005**	**2.4100e-003**	**1.0000e-005**	**2.4200e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.8840**	**1.8840**	**5.0000e-005**	**5.0000e-005**	**1.9005**

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

3.6 Paving - 2023

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	0.0101	0.0967	0.1341	2.1000e-004		4.7900e-003	4.7900e-003		4.4300e-003	4.4300e-003	0.0000	18.0164	18.0164	5.6600e-003	0.0000	18.1580
Paving	1.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0119**	**0.0967**	**0.1341**	**2.1000e-004**		**4.7900e-003**	**4.7900e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**18.0164**	**18.0164**	**5.6600e-003**	**0.0000**	**18.1580**

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	7.7000e-004	5.7000e-004	7.1600e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8840	1.8840	5.0000e-005	5.0000e-005	1.9005
Total	**7.7000e-004**	**5.7000e-004**	**7.1600e-003**	**2.0000e-005**	**2.4100e-003**	**1.0000e-005**	**2.4200e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.8840**	**1.8840**	**5.0000e-005**	**5.0000e-005**	**1.9005**

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

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8600e-003	0.0530	0.0787	1.3000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	11.1067	11.1067	6.3000e-004	0.0000	11.1223
Total	**0.2196**	**0.0530**	**0.0787**	**1.3000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**11.1067**	**11.1067**	**6.3000e-004**	**0.0000**	**11.1223**

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	1.9700e-003	1.4100e-003	0.0185	5.0000e-005	6.6800e-003	3.0000e-005	6.7100e-003	1.7700e-003	3.0000e-005	1.8000e-003	0.0000	5.1042	5.1042	1.2000e-004	1.3000e-004	5.1464
Total	**1.9700e-003**	**1.4100e-003**	**0.0185**	**5.0000e-005**	**6.6800e-003**	**3.0000e-005**	**6.7100e-003**	**1.7700e-003**	**3.0000e-005**	**1.8000e-003**	**0.0000**	**5.1042**	**5.1042**	**1.2000e-004**	**1.3000e-004**	**5.1464**

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

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8600e-003	0.0530	0.0787	1.3000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	11.1066	11.1066	6.3000e-004	0.0000	11.1223
Total	**0.2196**	**0.0530**	**0.0787**	**1.3000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**11.1066**	**11.1066**	**6.3000e-004**	**0.0000**	**11.1223**

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	1.9700e-003	1.4100e-003	0.0185	5.0000e-005	6.6800e-003	3.0000e-005	6.7100e-003	1.7700e-003	3.0000e-005	1.8000e-003	0.0000	5.1042	5.1042	1.2000e-004	1.3000e-004	5.1464
Total	**1.9700e-003**	**1.4100e-003**	**0.0185**	**5.0000e-005**	**6.6800e-003**	**3.0000e-005**	**6.7100e-003**	**1.7700e-003**	**3.0000e-005**	**1.8000e-003**	**0.0000**	**5.1042**	**5.1042**	**1.2000e-004**	**1.3000e-004**	**5.1464**

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

3.8 Underground Utilites - 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	0.0149	0.1514	0.2200	3.1000e-004		7.4800e-003	7.4800e-003		6.8800e-003	6.8800e-003	0.0000	26.9752	26.9752	8.7200e-003	0.0000	27.1933
Total	**0.0149**	**0.1514**	**0.2200**	**3.1000e-004**		**7.4800e-003**	**7.4800e-003**		**6.8800e-003**	**6.8800e-003**	**0.0000**	**26.9752**	**26.9752**	**8.7200e-003**	**0.0000**	**27.1933**

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	9.2000e-004	6.9000e-004	8.5900e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9100e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	2.2608	2.2608	6.0000e-005	6.0000e-005	2.2806
Total	**9.2000e-004**	**6.9000e-004**	**8.5900e-003**	**2.0000e-005**	**2.8900e-003**	**1.0000e-005**	**2.9100e-003**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**0.0000**	**2.2608**	**2.2608**	**6.0000e-005**	**6.0000e-005**	**2.2806**

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

3.8 Underground Utilites - 2023

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	0.0149	0.1514	0.2200	3.1000e-004		7.4800e-003	7.4800e-003		6.8800e-003	6.8800e-003	0.0000	26.9751	26.9751	8.7200e-003	0.0000	27.1933
Total	**0.0149**	**0.1514**	**0.2200**	**3.1000e-004**		**7.4800e-003**	**7.4800e-003**		**6.8800e-003**	**6.8800e-003**	**0.0000**	**26.9751**	**26.9751**	**8.7200e-003**	**0.0000**	**27.1933**

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	9.2000e-004	6.9000e-004	8.5900e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9100e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	2.2608	2.2608	6.0000e-005	6.0000e-005	2.2806
Total	**9.2000e-004**	**6.9000e-004**	**8.5900e-003**	**2.0000e-005**	**2.8900e-003**	**1.0000e-005**	**2.9100e-003**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**0.0000**	**2.2608**	**2.2608**	**6.0000e-005**	**6.0000e-005**	**2.2806**

4.0 Operational Detail - Mobile

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

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	0.2365	0.3746	2.4811	5.6600e-003	0.6130	4.5200e-003	0.6175	0.1637	4.2300e-003	0.1680	0.0000	536.5358	536.5358	0.0295	0.0263	545.1088
Unmitigated	0.2365	0.3746	2.4811	5.6600e-003	0.6130	4.5200e-003	0.6175	0.1637	4.2300e-003	0.1680	0.0000	536.5358	536.5358	0.0295	0.0263	545.1088

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	475.80	475.80	475.80	1,625,881	1,625,881
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	475.80	475.80	475.80	1,625,881	1,625,881

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

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

Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

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	9.2561	9.2561	7.8000e-004	9.0000e-005	9.3038
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	57.3348	57.3348	4.8400e-003	5.9000e-004	57.6306
NaturalGas Mitigated	7.4000e-003	0.0632	0.0269	4.0000e-004		5.1100e-003	5.1100e-003		5.1100e-003	5.1100e-003	0.0000	73.1884	73.1884	1.4000e-003	1.3400e-003	73.6233
NaturalGas Unmitigated	7.4000e-003	0.0632	0.0269	4.0000e-004		5.1100e-003	5.1100e-003		5.1100e-003	5.1100e-003	0.0000	73.1884	73.1884	1.4000e-003	1.3400e-003	73.6233

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	1.3715e+006	7.4000e-003	0.0632	0.0269	4.0000e-004		5.1100e-003	5.1100e-003		5.1100e-003	5.1100e-003	0.0000	73.1884	73.1884	1.4000e-003	1.3400e-003	73.6233
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**7.4000e-003**	**0.0632**	**0.0269**	**4.0000e-004**		**5.1100e-003**	**5.1100e-003**		**5.1100e-003**	**5.1100e-003**	**0.0000**	**73.1884**	**73.1884**	**1.4000e-003**	**1.3400e-003**	**73.6233**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	1.3715e+006	7.4000e-003	0.0632	0.0269	4.0000e-004		5.1100e-003	5.1100e-003		5.1100e-003	5.1100e-003	0.0000	73.1884	73.1884	1.4000e-003	1.3400e-003	73.6233
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**7.4000e-003**	**0.0632**	**0.0269**	**4.0000e-004**		**5.1100e-003**	**5.1100e-003**		**5.1100e-003**	**5.1100e-003**	**0.0000**	**73.1884**	**73.1884**	**1.4000e-003**	**1.3400e-003**	**73.6233**

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			
Condo/Townhouse	323294	57.3348	4.8400e-003	5.9000e-004	57.6306
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**57.3348**	**4.8400e-003**	**5.9000e-004**	**57.6306**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	187743	33.2955	2.8100e-003	3.4000e-004	33.4672
Other Asphalt Surfaces	-135551	-24.0394	-0.0020	-0.0003	-24.1634
Total		**9.2561**	**7.8000e-004**	**9.0000e-005**	**9.3038**

6.0 Area Detail

Arrow 32N Residential - San Bernardino-South Coast County, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	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	0.2801	7.7200e-003	0.6705	4.0000e-005		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	1.0965	1.0965	1.0500e-003	0.0000	1.1228
Unmitigated	0.2801	7.7200e-003	0.6705	4.0000e-005		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	1.0965	1.0965	1.0500e-003	0.0000	1.1228

Arrow 32N Residential - San Bernardino-South Coast County, 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	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2388					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	0.0202	7.7200e-003	0.6705	4.0000e-005		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	1.0965	1.0965	1.0500e-003	0.0000	1.1228
Total	**0.2801**	**7.7200e-003**	**0.6705**	**4.0000e-005**		**3.7200e-003**	**3.7200e-003**		**3.7200e-003**	**3.7200e-003**	**0.0000**	**1.0965**	**1.0965**	**1.0500e-003**	**0.0000**	**1.1228**

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	0.0212					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2388					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	0.0202	7.7200e-003	0.6705	4.0000e-005		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	1.0965	1.0965	1.0500e-003	0.0000	1.1228
Total	**0.2801**	**7.7200e-003**	**0.6705**	**4.0000e-005**		**3.7200e-003**	**3.7200e-003**		**3.7200e-003**	**3.7200e-003**	**0.0000**	**1.0965**	**1.0965**	**1.0500e-003**	**0.0000**	**1.1228**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	13.1069	0.1114	2.7300e-003	16.7058
Unmitigated	16.3837	0.1393	3.4100e-003	20.8822

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	4.23501 / 2.6699	16.3837	0.1393	3.4100e-003	20.8822
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**16.3837**	**0.1393**	**3.4100e-003**	**20.8822**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.38801 / 2.13592	13.1069	0.1114	2.7300e-003	16.7058
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**13.1069**	**0.1114**	**2.7300e-003**	**16.7058**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.5521	0.2690	0.0000	11.2776
Unmitigated	6.0694	0.3587	0.0000	15.0368

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	29.9	6.0694	0.3587	0.0000	15.0368
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**6.0694**	**0.3587**	**0.0000**	**15.0368**

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	22.425	4.5521	0.2690	0.0000	11.2776
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**4.5521**	**0.2690**	**0.0000**	**11.2776**

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

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

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

Arrow 32N Residential

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	65.00	Dwelling Unit	3.52	65,000.00	186
Other Asphalt Surfaces	60.00	1000sqft	1.38	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 65 DU and 60 ksf of asphalt on 4.9 acres

Construction Phase - Schedule provided by Century Communities

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Demolition -

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

Vehicle Trips - Kimley-Horn 2021

Woodstoves - SCAQMD Rule 445 prohibits woodburning devices

Construction Off-road Equipment Mitigation -

Energy Mitigation - 2019 Title 24 requirements

Water Mitigation - CALGreen requirements

Waste Mitigation - AB341

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	87.00
tblConstructionPhase	NumDays	230.00	392.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	8.00	22.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	PhaseEndDate	2/22/2024	12/31/2024
tblConstructionPhase	PhaseEndDate	1/3/2024	12/31/2024
tblConstructionPhase	PhaseEndDate	1/27/2023	1/20/2023
tblConstructionPhase	PhaseEndDate	2/15/2023	2/28/2023
tblConstructionPhase	PhaseEndDate	1/29/2024	6/30/2023
tblConstructionPhase	PhaseEndDate	2/3/2023	1/27/2023
tblConstructionPhase	PhaseStartDate	1/30/2024	9/1/2024
tblConstructionPhase	PhaseStartDate	2/16/2023	7/1/2023
tblConstructionPhase	PhaseStartDate	2/4/2023	1/30/2023
tblConstructionPhase	PhaseStartDate	1/4/2024	6/1/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/23/2023
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	65.00

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

tblFireplaces	NumberWood	3.25	0.00
tblGrading	MaterialImported	0.00	2,727.00
tblLandUse	LotAcreage	4.06	3.52
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblVehicleTrips	ST_TR	8.14	7.32
tblVehicleTrips	SU_TR	6.28	7.32
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Arrow 32N Residential - San Bernardino-South Coast County, 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					
2023	2.7298	27.5666	20.2604	0.0412	19.8582	1.2670	21.1252	10.1558	1.1657	11.3215	0.0000	3,994.1006	3,994.1006	1.1969	0.1540	4,045.0317
2024	6.8509	15.4443	21.2431	0.0413	1.0702	0.6832	1.7534	0.2863	0.6462	0.9325	0.0000	4,018.6981	4,018.6981	0.6475	0.0667	4,054.7499
Maximum	**6.8509**	**27.5666**	**21.2431**	**0.0413**	**19.8582**	**1.2670**	**21.1252**	**10.1558**	**1.1657**	**11.3215**	**0.0000**	**4,018.6981**	**4,018.6981**	**1.1969**	**0.1540**	**4,054.7499**

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					
2023	2.7298	27.5666	20.2604	0.0412	9.0469	1.2670	10.3139	4.5995	1.1657	5.7651	0.0000	3,994.1006	3,994.1006	1.1969	0.1540	4,045.0317
2024	6.8509	15.4443	21.2431	0.0413	1.0702	0.6832	1.7534	0.2863	0.6462	0.9325	0.0000	4,018.6981	4,018.6981	0.6475	0.0667	4,054.7499
Maximum	**6.8509**	**27.5666**	**21.2431**	**0.0413**	**9.0469**	**1.2670**	**10.3139**	**4.5995**	**1.1657**	**5.7651**	**0.0000**	**4,018.6981**	**4,018.6981**	**1.1969**	**0.1540**	**4,054.7499**

Arrow 32N Residential - San Bernardino-South Coast County, 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.66	0.00	47.26	53.21	0.00	45.34	0.00	0.00	0.00	0.00	0.00	0.00

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	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011
Energy	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Mobile	1.5028	1.9002	14.6322	0.0331	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,454.6930	3,454.6930	0.1728	0.1534	3,504.7343
Total	**3.1290**	**2.3083**	**20.1431**	**0.0356**	**3.4329**	**0.0826**	**3.5156**	**0.9156**	**0.0810**	**0.9966**	**0.0000**	**3,906.4243**	**3,906.4243**	**0.1906**	**0.1615**	**3,959.3245**

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	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011
Energy	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Mobile	1.5028	1.9002	14.6322	0.0331	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,454.6930	3,454.6930	0.1728	0.1534	3,504.7343
Total	**3.1290**	**2.3083**	**20.1431**	**0.0356**	**3.4329**	**0.0826**	**3.5156**	**0.9156**	**0.0810**	**0.9966**	**0.0000**	**3,906.4243**	**3,906.4243**	**0.1906**	**0.1615**	**3,959.3245**

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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/20/2023	5	15	
2	Site Preparation	Site Preparation	1/23/2023	1/27/2023	5	5	
3	Grading	Grading	1/30/2023	2/28/2023	5	22	
4	Building Construction	Building Construction	7/1/2023	12/31/2024	5	392	
5	Paving	Paving	6/1/2023	6/30/2023	5	22	
6	Architectural Coating	Architectural Coating	9/1/2024	12/31/2024	5	87	
7	Underground Utilites	Trenching	3/1/2023	5/31/2023	5	66	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 22

Acres of Paving: 1.38

Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,600 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Underground Utilites	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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	23.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	341.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	72.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Underground Utilites	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					
Fugitive Dust					0.3281	0.0000	0.3281	0.0497	0.0000	0.0497			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.3281**	**0.9975**	**1.3257**	**0.0497**	**0.9280**	**0.9777**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

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

3.2 Demolition - 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	3.6900e-003	0.1686	0.0514	8.6000e-004	0.0269	1.7700e-003	0.0286	7.3600e-003	1.7000e-003	9.0600e-003		93.8664	93.8664	4.0000e-003	0.0149	98.4002
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	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	**0.0623**	**0.2040**	**0.6170**	**2.3600e-003**	**0.1945**	**2.6000e-003**	**0.1971**	**0.0518**	**2.4600e-003**	**0.0543**		**247.1166**	**247.1166**	**7.6600e-003**	**0.0185**	**252.8159**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1477	0.0000	0.1477	0.0224	0.0000	0.0224			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.1477**	**0.9975**	**1.1452**	**0.0224**	**0.9280**	**0.9504**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

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

3.2 Demolition - 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	3.6900e-003	0.1686	0.0514	8.6000e-004	0.0269	1.7700e-003	0.0286	7.3600e-003	1.7000e-003	9.0600e-003		93.8664	93.8664	4.0000e-003	0.0149	98.4002
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	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	**0.0623**	**0.2040**	**0.6170**	**2.3600e-003**	**0.1945**	**2.6000e-003**	**0.1971**	**0.0518**	**2.4600e-003**	**0.0543**		**247.1166**	**247.1166**	**7.6600e-003**	**0.0185**	**252.8159**

3.3 Site Preparation - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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

3.3 Site Preparation - 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	0.0704	0.0425	0.6788	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		183.9003	183.9003	4.3900e-003	4.3200e-003	185.2988
Total	**0.0704**	**0.0425**	**0.6788**	**1.8000e-003**	**0.2012**	**9.9000e-004**	**0.2022**	**0.0534**	**9.1000e-004**	**0.0543**		**183.9003**	**183.9003**	**4.3900e-003**	**4.3200e-003**	**185.2988**

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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**8.8457**	**1.2660**	**10.1117**	**4.5461**	**1.1647**	**5.7108**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

3.3 Site Preparation - 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	0.0704	0.0425	0.6788	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		183.9003	183.9003	4.3900e-003	4.3200e-003	185.2988
Total	**0.0704**	**0.0425**	**0.6788**	**1.8000e-003**	**0.2012**	**9.9000e-004**	**0.2022**	**0.0534**	**9.1000e-004**	**0.0543**		**183.9003**	**183.9003**	**4.3900e-003**	**4.3200e-003**	**185.2988**

3.4 Grading - 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					
Fugitive Dust					7.0966	0.0000	7.0966	3.4269	0.0000	3.4269			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0966**	**0.7749**	**7.8715**	**3.4269**	**0.7129**	**4.1398**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

3.4 Grading - 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	0.0374	1.7047	0.5193	8.7100e-003	0.2714	0.0179	0.2894	0.0744	0.0172	0.0916		948.8664	948.8664	0.0405	0.1504	994.6978
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	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	**0.0960**	**1.7401**	**1.0849**	**0.0102**	**0.4391**	**0.0188**	**0.4579**	**0.1189**	**0.0179**	**0.1368**		**1,102.1167**	**1,102.1167**	**0.0441**	**0.1540**	**1,149.1135**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1935	0.0000	3.1935	1.5421	0.0000	1.5421			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**3.1935**	**0.7749**	**3.9684**	**1.5421**	**0.7129**	**2.2550**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

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

3.4 Grading - 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	0.0374	1.7047	0.5193	8.7100e-003	0.2714	0.0179	0.2894	0.0744	0.0172	0.0916		948.8664	948.8664	0.0405	0.1504	994.6978
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	0.0587	0.0354	0.5657	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		153.2503	153.2503	3.6600e-003	3.6000e-003	154.4157
Total	**0.0960**	**1.7401**	**1.0849**	**0.0102**	**0.4391**	**0.0188**	**0.4579**	**0.1189**	**0.0179**	**0.1368**		**1,102.1167**	**1,102.1167**	**0.0441**	**0.1540**	**1,149.1135**

3.5 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
Total	**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**

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

3.5 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	0.0199	0.5963	0.2502	3.0400e-003	0.1089	4.4800e-003	0.1134	0.0314	4.2900e-003	0.0357		326.2609	326.2609	8.5300e-003	0.0482	340.8317
Worker	0.2815	0.1699	2.7152	7.1900e-003	0.8048	3.9800e-003	0.8088	0.2134	3.6600e-003	0.2171		735.6014	735.6014	0.0176	0.0173	741.1953
Total	**0.3014**	**0.7662**	**2.9654**	**0.0102**	**0.9137**	**8.4600e-003**	**0.9222**	**0.2448**	**7.9500e-003**	**0.2527**		**1,061.8623**	**1,061.8623**	**0.0261**	**0.0655**	**1,082.0270**

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
Total	**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**

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

3.5 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	0.0199	0.5963	0.2502	3.0400e-003	0.1089	4.4800e-003	0.1134	0.0314	4.2900e-003	0.0357		326.2609	326.2609	8.5300e-003	0.0482	340.8317
Worker	0.2815	0.1699	2.7152	7.1900e-003	0.8048	3.9800e-003	0.8088	0.2134	3.6600e-003	0.2171		735.6014	735.6014	0.0176	0.0173	741.1953
Total	**0.3014**	**0.7662**	**2.9654**	**0.0102**	**0.9137**	**8.4600e-003**	**0.9222**	**0.2448**	**7.9500e-003**	**0.2527**		**1,061.8623**	**1,061.8623**	**0.0261**	**0.0655**	**1,082.0270**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0194	0.6016	0.2461	3.0000e-003	0.1089	4.4100e-003	0.1133	0.0314	4.2200e-003	0.0356		321.7664	321.7664	8.2700e-003	0.0475	336.1311
Worker	0.2615	0.1508	2.5285	6.9800e-003	0.8048	3.8200e-003	0.8086	0.2134	3.5200e-003	0.2170		719.8198	719.8198	0.0159	0.0160	724.9956
Total	**0.2810**	**0.7524**	**2.7745**	**9.9800e-003**	**0.9137**	**8.2300e-003**	**0.9219**	**0.2448**	**7.7400e-003**	**0.2525**		**1,041.5862**	**1,041.5862**	**0.0242**	**0.0635**	**1,061.1267**

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0194	0.6016	0.2461	3.0000e-003	0.1089	4.4100e-003	0.1133	0.0314	4.2200e-003	0.0356		321.7664	321.7664	8.2700e-003	0.0475	336.1311
Worker	0.2615	0.1508	2.5285	6.9800e-003	0.8048	3.8200e-003	0.8086	0.2134	3.5200e-003	0.2170		719.8198	719.8198	0.0159	0.0160	724.9956
Total	**0.2810**	**0.7524**	**2.7745**	**9.9800e-003**	**0.9137**	**8.2300e-003**	**0.9219**	**0.2448**	**7.7400e-003**	**0.2525**		**1,041.5862**	**1,041.5862**	**0.0242**	**0.0635**	**1,061.1267**

3.6 Paving - 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1644					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0824**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

3.6 Paving - 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	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	**0.0782**	**0.0472**	**0.7542**	**2.0000e-003**	**0.2236**	**1.1000e-003**	**0.2247**	**0.0593**	**1.0200e-003**	**0.0603**		**204.3337**	**204.3337**	**4.8800e-003**	**4.8000e-003**	**205.8876**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1644					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0824**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

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

3.6 Paving - 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	0.0782	0.0472	0.7542	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		204.3337	204.3337	4.8800e-003	4.8000e-003	205.8876
Total	**0.0782**	**0.0472**	**0.7542**	**2.0000e-003**	**0.2236**	**1.1000e-003**	**0.2247**	**0.0593**	**1.0200e-003**	**0.0603**		**204.3337**	**204.3337**	**4.8800e-003**	**4.8000e-003**	**205.8876**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.8668					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**5.0475**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

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

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0509	0.0293	0.4917	1.3600e-003	0.1565	7.4000e-004	0.1572	0.0415	6.8000e-004	0.0422		139.9650	139.9650	3.0900e-003	3.1200e-003	140.9714
Total	**0.0509**	**0.0293**	**0.4917**	**1.3600e-003**	**0.1565**	**7.4000e-004**	**0.1572**	**0.0415**	**6.8000e-004**	**0.0422**		**139.9650**	**139.9650**	**3.0900e-003**	**3.1200e-003**	**140.9714**

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	4.8668					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**5.0475**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

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

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0509	0.0293	0.4917	1.3600e-003	0.1565	7.4000e-004	0.1572	0.0415	6.8000e-004	0.0422		139.9650	139.9650	3.0900e-003	3.1200e-003	140.9714
Total	**0.0509**	**0.0293**	**0.4917**	**1.3600e-003**	**0.1565**	**7.4000e-004**	**0.1572**	**0.0415**	**6.8000e-004**	**0.0422**		**139.9650**	**139.9650**	**3.0900e-003**	**3.1200e-003**	**140.9714**

3.8 Underground Utilites - 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	0.4522	4.5884	6.6668	9.3100e-003		0.2265	0.2265		0.2084	0.2084		901.0617	901.0617	0.2914		908.3472
Total	**0.4522**	**4.5884**	**6.6668**	**9.3100e-003**		**0.2265**	**0.2265**		**0.2084**	**0.2084**		**901.0617**	**901.0617**	**0.2914**		**908.3472**

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

3.8 Underground Utilites - 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	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	**0.0313**	**0.0189**	**0.3017**	**8.0000e-004**	**0.0894**	**4.4000e-004**	**0.0899**	**0.0237**	**4.1000e-004**	**0.0241**		**81.7335**	**81.7335**	**1.9500e-003**	**1.9200e-003**	**82.3550**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4522	4.5884	6.6668	9.3100e-003		0.2265	0.2265		0.2084	0.2084	0.0000	901.0617	901.0617	0.2914		908.3472
Total	**0.4522**	**4.5884**	**6.6668**	**9.3100e-003**		**0.2265**	**0.2265**		**0.2084**	**0.2084**	**0.0000**	**901.0617**	**901.0617**	**0.2914**		**908.3472**

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

3.8 Underground Utilites - 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	0.0313	0.0189	0.3017	8.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		81.7335	81.7335	1.9500e-003	1.9200e-003	82.3550
Total	**0.0313**	**0.0189**	**0.3017**	**8.0000e-004**	**0.0894**	**4.4000e-004**	**0.0899**	**0.0237**	**4.1000e-004**	**0.0241**		**81.7335**	**81.7335**	**1.9500e-003**	**1.9200e-003**	**82.3550**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Arrow 32N Residential - San Bernardino-South Coast County, 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
Category	lb/day										lb/day					
Mitigated	1.5028	1.9002	14.6322	0.0331	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,454.6930	3,454.6930	0.1728	0.1534	3,504.7343
Unmitigated	1.5028	1.9002	14.6322	0.0331	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,454.6930	3,454.6930	0.1728	0.1534	3,504.7343

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	475.80	475.80	475.80	1,625,881	1,625,881
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	475.80	475.80	475.80	1,625,881	1,625,881

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

5.0 Energy Detail

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

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	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
NaturalGas Unmitigated	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	3757.53	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0405**	**0.3463**	**0.1474**	**2.2100e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**		**442.0622**	**442.0622**	**8.4700e-003**	**8.1000e-003**	**444.6892**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	3.75753	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0405**	**0.3463**	**0.1474**	**2.2100e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**		**442.0622**	**442.0622**	**8.4700e-003**	**8.1000e-003**	**444.6892**

6.0 Area Detail

Arrow 32N Residential - San Bernardino-South Coast County, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	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	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011
Unmitigated	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011

Arrow 32N Residential - San Bernardino-South Coast County, 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	0.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3083					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	0.1614	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298		9.6690	9.6690	9.2800e-003		9.9011
Total	**1.5857**	**0.0618**	**5.3636**	**2.8000e-004**		**0.0298**	**0.0298**		**0.0298**	**0.0298**	**0.0000**	**9.6690**	**9.6690**	**9.2800e-003**	**0.0000**	**9.9011**

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	0.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3083					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	0.1614	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298		9.6690	9.6690	9.2800e-003		9.9011
Total	**1.5857**	**0.0618**	**5.3636**	**2.8000e-004**		**0.0298**	**0.0298**		**0.0298**	**0.0298**	**0.0000**	**9.6690**	**9.6690**	**9.2800e-003**	**0.0000**	**9.9011**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

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

Arrow 32N Residential

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	65.00	Dwelling Unit	3.52	65,000.00	186
Other Asphalt Surfaces	60.00	1000sqft	1.38	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 65 DU and 60 ksf of asphalt on 4.9 acres

Construction Phase - Schedule provided by Century Communities

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Demolition -

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

Vehicle Trips - Kimley-Horn 2021

Woodstoves - SCAQMD Rule 445 prohibits woodburning devices

Construction Off-road Equipment Mitigation -

Energy Mitigation - 2019 Title 24 requirements

Water Mitigation - CALGreen requirements

Waste Mitigation - AB341

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	87.00
tblConstructionPhase	NumDays	230.00	392.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	8.00	22.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	PhaseEndDate	2/22/2024	12/31/2024
tblConstructionPhase	PhaseEndDate	1/3/2024	12/31/2024
tblConstructionPhase	PhaseEndDate	1/27/2023	1/20/2023
tblConstructionPhase	PhaseEndDate	2/15/2023	2/28/2023
tblConstructionPhase	PhaseEndDate	1/29/2024	6/30/2023
tblConstructionPhase	PhaseEndDate	2/3/2023	1/27/2023
tblConstructionPhase	PhaseStartDate	1/30/2024	9/1/2024
tblConstructionPhase	PhaseStartDate	2/16/2023	7/1/2023
tblConstructionPhase	PhaseStartDate	2/4/2023	1/30/2023
tblConstructionPhase	PhaseStartDate	1/4/2024	6/1/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/23/2023
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	65.00

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

tblFireplaces	NumberWood	3.25	0.00
tblGrading	MaterialImported	0.00	2,727.00
tblLandUse	LotAcreage	4.06	3.52
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblVehicleTrips	ST_TR	8.14	7.32
tblVehicleTrips	SU_TR	6.28	7.32
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Arrow 32N Residential - San Bernardino-South Coast County, 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					
2023	2.7273	27.5688	20.1612	0.0411	19.8582	1.2670	21.1252	10.1558	1.1657	11.3215	0.0000	3,979.8329	3,979.8329	1.1970	0.1544	4,032.1526
2024	6.8388	15.4873	20.7192	0.0405	1.0702	0.6832	1.7534	0.2863	0.6463	0.9326	0.0000	3,938.8127	3,938.8127	0.6475	0.0674	3,975.0895
Maximum	**6.8388**	**27.5688**	**20.7192**	**0.0411**	**19.8582**	**1.2670**	**21.1252**	**10.1558**	**1.1657**	**11.3215**	**0.0000**	**3,979.8329**	**3,979.8329**	**1.1970**	**0.1544**	**4,032.1526**

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					
2023	2.7273	27.5688	20.1612	0.0411	9.0469	1.2670	10.3139	4.5995	1.1657	5.7651	0.0000	3,979.8329	3,979.8329	1.1970	0.1544	4,032.1526
2024	6.8388	15.4873	20.7192	0.0405	1.0702	0.6832	1.7534	0.2863	0.6463	0.9326	0.0000	3,938.8127	3,938.8127	0.6475	0.0674	3,975.0895
Maximum	**6.8388**	**27.5688**	**20.7192**	**0.0411**	**9.0469**	**1.2670**	**10.3139**	**4.5995**	**1.1657**	**5.7651**	**0.0000**	**3,979.8329**	**3,979.8329**	**1.1970**	**0.1544**	**4,032.1526**

Arrow 32N Residential - San Bernardino-South Coast County, 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.66	0.00	47.26	53.21	0.00	45.34	0.00	0.00	0.00	0.00	0.00	0.00

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	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011
Energy	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Mobile	1.3090	2.0192	13.0906	0.0307	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,205.8650	3,205.8650	0.1768	0.1572	3,257.1246
Total	**2.9352**	**2.4272**	**18.6016**	**0.0332**	**3.4329**	**0.0826**	**3.5156**	**0.9156**	**0.0810**	**0.9966**	**0.0000**	**3,657.5962**	**3,657.5962**	**0.1946**	**0.1653**	**3,711.7149**

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	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011
Energy	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Mobile	1.3090	2.0192	13.0906	0.0307	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,205.8650	3,205.8650	0.1768	0.1572	3,257.1246
Total	**2.9352**	**2.4272**	**18.6016**	**0.0332**	**3.4329**	**0.0826**	**3.5156**	**0.9156**	**0.0810**	**0.9966**	**0.0000**	**3,657.5962**	**3,657.5962**	**0.1946**	**0.1653**	**3,711.7149**

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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/20/2023	5	15	
2	Site Preparation	Site Preparation	1/23/2023	1/27/2023	5	5	
3	Grading	Grading	1/30/2023	2/28/2023	5	22	
4	Building Construction	Building Construction	7/1/2023	12/31/2024	5	392	
5	Paving	Paving	6/1/2023	6/30/2023	5	22	
6	Architectural Coating	Architectural Coating	9/1/2024	12/31/2024	5	87	
7	Underground Utilites	Trenching	3/1/2023	5/31/2023	5	66	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 22

Acres of Paving: 1.38

Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,600 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Underground Utilites	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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	23.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	341.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	72.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Underground Utilites	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 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					
Fugitive Dust					0.3281	0.0000	0.3281	0.0497	0.0000	0.0497			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.3281**	**0.9975**	**1.3257**	**0.0497**	**0.9280**	**0.9777**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.2 Demolition - 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	3.4200e-003	0.1778	0.0523	8.6000e-004	0.0269	1.7800e-003	0.0286	7.3600e-003	1.7000e-003	9.0600e-003		94.0080	94.0080	3.9900e-003	0.0149	98.5482
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	0.0565	0.0372	0.4656	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		138.8409	138.8409	3.6600e-003	3.7200e-003	140.0409
Total	**0.0599**	**0.2150**	**0.5179**	**2.2200e-003**	**0.1945**	**2.6100e-003**	**0.1971**	**0.0518**	**2.4600e-003**	**0.0543**		**232.8489**	**232.8489**	**7.6500e-003**	**0.0186**	**238.5891**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1477	0.0000	0.1477	0.0224	0.0000	0.0224			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**0.1477**	**0.9975**	**1.1452**	**0.0224**	**0.9280**	**0.9504**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

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

3.2 Demolition - 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	3.4200e-003	0.1778	0.0523	8.6000e-004	0.0269	1.7800e-003	0.0286	7.3600e-003	1.7000e-003	9.0600e-003		94.0080	94.0080	3.9900e-003	0.0149	98.5482
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	0.0565	0.0372	0.4656	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		138.8409	138.8409	3.6600e-003	3.7200e-003	140.0409
Total	**0.0599**	**0.2150**	**0.5179**	**2.2200e-003**	**0.1945**	**2.6100e-003**	**0.1971**	**0.0518**	**2.4600e-003**	**0.0543**		**232.8489**	**232.8489**	**7.6500e-003**	**0.0186**	**238.5891**

3.3 Site Preparation - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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

3.3 Site Preparation - 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	0.0678	0.0447	0.5587	1.6300e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		166.6090	166.6090	4.4000e-003	4.4600e-003	168.0491
Total	**0.0678**	**0.0447**	**0.5587**	**1.6300e-003**	**0.2012**	**9.9000e-004**	**0.2022**	**0.0534**	**9.1000e-004**	**0.0543**		**166.6090**	**166.6090**	**4.4000e-003**	**4.4600e-003**	**168.0491**

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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**8.8457**	**1.2660**	**10.1117**	**4.5461**	**1.1647**	**5.7108**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.3 Site Preparation - 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	0.0678	0.0447	0.5587	1.6300e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		166.6090	166.6090	4.4000e-003	4.4600e-003	168.0491
Total	**0.0678**	**0.0447**	**0.5587**	**1.6300e-003**	**0.2012**	**9.9000e-004**	**0.2022**	**0.0534**	**9.1000e-004**	**0.0543**		**166.6090**	**166.6090**	**4.4000e-003**	**4.4600e-003**	**168.0491**

3.4 Grading - 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					
Fugitive Dust					7.0966	0.0000	7.0966	3.4269	0.0000	3.4269			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0966**	**0.7749**	**7.8715**	**3.4269**	**0.7129**	**4.1398**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.4 Grading - 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	0.0345	1.7971	0.5286	8.7200e-003	0.2714	0.0180	0.2894	0.0744	0.0172	0.0916		950.2982	950.2982	0.0403	0.1506	996.1936
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	0.0565	0.0372	0.4656	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		138.8409	138.8409	3.6600e-003	3.7200e-003	140.0409
Total	**0.0910**	**1.8343**	**0.9942**	**0.0101**	**0.4391**	**0.0188**	**0.4579**	**0.1189**	**0.0179**	**0.1368**		**1,089.1390**	**1,089.1390**	**0.0440**	**0.1544**	**1,136.2345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1935	0.0000	3.1935	1.5421	0.0000	1.5421			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**3.1935**	**0.7749**	**3.9684**	**1.5421**	**0.7129**	**2.2550**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

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

3.4 Grading - 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	0.0345	1.7971	0.5286	8.7200e-003	0.2714	0.0180	0.2894	0.0744	0.0172	0.0916		950.2982	950.2982	0.0403	0.1506	996.1936
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	0.0565	0.0372	0.4656	1.3600e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		138.8409	138.8409	3.6600e-003	3.7200e-003	140.0409
Total	**0.0910**	**1.8343**	**0.9942**	**0.0101**	**0.4391**	**0.0188**	**0.4579**	**0.1189**	**0.0179**	**0.1368**		**1,089.1390**	**1,089.1390**	**0.0440**	**0.1544**	**1,136.2345**

3.5 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
Total	**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**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.5 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	0.0185	0.6298	0.2579	3.0500e-003	0.1089	4.5000e-003	0.1134	0.0314	4.3000e-003	0.0357		327.0521	327.0521	8.4600e-003	0.0483	341.6658
Worker	0.2712	0.1786	2.2347	6.5100e-003	0.8048	3.9800e-003	0.8088	0.2134	3.6600e-003	0.2171		666.4361	666.4361	0.0176	0.0179	672.1963
Total	**0.2897**	**0.8085**	**2.4927**	**9.5600e-003**	**0.9137**	**8.4800e-003**	**0.9222**	**0.2448**	**7.9600e-003**	**0.2528**		**993.4883**	**993.4883**	**0.0261**	**0.0662**	**1,013.8621**

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
Total	**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**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.5 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	0.0185	0.6298	0.2579	3.0500e-003	0.1089	4.5000e-003	0.1134	0.0314	4.3000e-003	0.0357		327.0521	327.0521	8.4600e-003	0.0483	341.6658
Worker	0.2712	0.1786	2.2347	6.5100e-003	0.8048	3.9800e-003	0.8088	0.2134	3.6600e-003	0.2171		666.4361	666.4361	0.0176	0.0179	672.1963
Total	**0.2897**	**0.8085**	**2.4927**	**9.5600e-003**	**0.9137**	**8.4800e-003**	**0.9222**	**0.2448**	**7.9600e-003**	**0.2528**		**993.4883**	**993.4883**	**0.0261**	**0.0662**	**1,013.8621**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0181	0.6354	0.2537	3.0100e-003	0.1089	4.4300e-003	0.1133	0.0314	4.2400e-003	0.0356		322.5529	322.5529	8.2000e-003	0.0477	336.9594
Worker	0.2526	0.1585	2.0834	6.3200e-003	0.8048	3.8200e-003	0.8086	0.2134	3.5200e-003	0.2170		652.2806	652.2806	0.0160	0.0165	657.6096
Total	**0.2706**	**0.7939**	**2.3371**	**9.3300e-003**	**0.9137**	**8.2500e-003**	**0.9220**	**0.2448**	**7.7600e-003**	**0.2526**		**974.8334**	**974.8334**	**0.0242**	**0.0642**	**994.5690**

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0181	0.6354	0.2537	3.0100e-003	0.1089	4.4300e-003	0.1133	0.0314	4.2400e-003	0.0356		322.5529	322.5529	8.2000e-003	0.0477	336.9594
Worker	0.2526	0.1585	2.0834	6.3200e-003	0.8048	3.8200e-003	0.8086	0.2134	3.5200e-003	0.2170		652.2806	652.2806	0.0160	0.0165	657.6096
Total	**0.2706**	**0.7939**	**2.3371**	**9.3300e-003**	**0.9137**	**8.2500e-003**	**0.9220**	**0.2448**	**7.7600e-003**	**0.2526**		**974.8334**	**974.8334**	**0.0242**	**0.0642**	**994.5690**

3.6 Paving - 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1644					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0824**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.6 Paving - 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	0.0753	0.0496	0.6208	1.8100e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		185.1212	185.1212	4.8900e-003	4.9600e-003	186.7212
Total	**0.0753**	**0.0496**	**0.6208**	**1.8100e-003**	**0.2236**	**1.1000e-003**	**0.2247**	**0.0593**	**1.0200e-003**	**0.0603**		**185.1212**	**185.1212**	**4.8900e-003**	**4.9600e-003**	**186.7212**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1644					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0824**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.6 Paving - 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	0.0753	0.0496	0.6208	1.8100e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0200e-003	0.0603		185.1212	185.1212	4.8900e-003	4.9600e-003	186.7212
Total	**0.0753**	**0.0496**	**0.6208**	**1.8100e-003**	**0.2236**	**1.1000e-003**	**0.2247**	**0.0593**	**1.0200e-003**	**0.0603**		**185.1212**	**185.1212**	**4.8900e-003**	**4.9600e-003**	**186.7212**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.8668					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**5.0475**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

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

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0308	0.4051	1.2300e-003	0.1565	7.4000e-004	0.1572	0.0415	6.8000e-004	0.0422		126.8323	126.8323	3.1000e-003	3.2200e-003	127.8685
Total	**0.0491**	**0.0308**	**0.4051**	**1.2300e-003**	**0.1565**	**7.4000e-004**	**0.1572**	**0.0415**	**6.8000e-004**	**0.0422**		**126.8323**	**126.8323**	**3.1000e-003**	**3.2200e-003**	**127.8685**

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	4.8668					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**5.0475**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0491	0.0308	0.4051	1.2300e-003	0.1565	7.4000e-004	0.1572	0.0415	6.8000e-004	0.0422		126.8323	126.8323	3.1000e-003	3.2200e-003	127.8685
Total	**0.0491**	**0.0308**	**0.4051**	**1.2300e-003**	**0.1565**	**7.4000e-004**	**0.1572**	**0.0415**	**6.8000e-004**	**0.0422**		**126.8323**	**126.8323**	**3.1000e-003**	**3.2200e-003**	**127.8685**

3.8 Underground Utilites - 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	0.4522	4.5884	6.6668	9.3100e-003		0.2265	0.2265		0.2084	0.2084		901.0617	901.0617	0.2914		908.3472
Total	**0.4522**	**4.5884**	**6.6668**	**9.3100e-003**		**0.2265**	**0.2265**		**0.2084**	**0.2084**		**901.0617**	**901.0617**	**0.2914**		**908.3472**

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

3.8 Underground Utilites - 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	0.0301	0.0199	0.2483	7.2000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		74.0485	74.0485	1.9500e-003	1.9800e-003	74.6885
Total	**0.0301**	**0.0199**	**0.2483**	**7.2000e-004**	**0.0894**	**4.4000e-004**	**0.0899**	**0.0237**	**4.1000e-004**	**0.0241**		**74.0485**	**74.0485**	**1.9500e-003**	**1.9800e-003**	**74.6885**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4522	4.5884	6.6668	9.3100e-003		0.2265	0.2265		0.2084	0.2084	0.0000	901.0617	901.0617	0.2914		908.3472
Total	**0.4522**	**4.5884**	**6.6668**	**9.3100e-003**		**0.2265**	**0.2265**		**0.2084**	**0.2084**	**0.0000**	**901.0617**	**901.0617**	**0.2914**		**908.3472**

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

3.8 Underground Utilites - 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	0.0301	0.0199	0.2483	7.2000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		74.0485	74.0485	1.9500e-003	1.9800e-003	74.6885
Total	**0.0301**	**0.0199**	**0.2483**	**7.2000e-004**	**0.0894**	**4.4000e-004**	**0.0899**	**0.0237**	**4.1000e-004**	**0.0241**		**74.0485**	**74.0485**	**1.9500e-003**	**1.9800e-003**	**74.6885**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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
Category	lb/day										lb/day					
Mitigated	1.3090	2.0192	13.0906	0.0307	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,205.8650	3,205.8650	0.1768	0.1572	3,257.1246
Unmitigated	1.3090	2.0192	13.0906	0.0307	3.4329	0.0249	3.4578	0.9156	0.0233	0.9388		3,205.8650	3,205.8650	0.1768	0.1572	3,257.1246

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	475.80	475.80	475.80	1,625,881	1,625,881
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	475.80	475.80	475.80	1,625,881	1,625,881

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

5.0 Energy Detail

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

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	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
NaturalGas Unmitigated	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	3757.53	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0405**	**0.3463**	**0.1474**	**2.2100e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**		**442.0622**	**442.0622**	**8.4700e-003**	**8.1000e-003**	**444.6892**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	3.75753	0.0405	0.3463	0.1474	2.2100e-003		0.0280	0.0280		0.0280	0.0280		442.0622	442.0622	8.4700e-003	8.1000e-003	444.6892
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0405**	**0.3463**	**0.1474**	**2.2100e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**		**442.0622**	**442.0622**	**8.4700e-003**	**8.1000e-003**	**444.6892**

6.0 Area Detail

Arrow 32N Residential - San Bernardino-South Coast County, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	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	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011
Unmitigated	1.5857	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298	0.0000	9.6690	9.6690	9.2800e-003	0.0000	9.9011

Arrow 32N Residential - San Bernardino-South Coast County, 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	0.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3083					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	0.1614	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298		9.6690	9.6690	9.2800e-003		9.9011
Total	**1.5857**	**0.0618**	**5.3636**	**2.8000e-004**		**0.0298**	**0.0298**		**0.0298**	**0.0298**	**0.0000**	**9.6690**	**9.6690**	**9.2800e-003**	**0.0000**	**9.9011**

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	0.1160					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3083					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	0.1614	0.0618	5.3636	2.8000e-004		0.0298	0.0298		0.0298	0.0298		9.6690	9.6690	9.2800e-003		9.9011
Total	**1.5857**	**0.0618**	**5.3636**	**2.8000e-004**		**0.0298**	**0.0298**		**0.0298**	**0.0298**	**0.0000**	**9.6690**	**9.6690**	**9.2800e-003**	**0.0000**	**9.9011**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

IS/MND Appendix B

Cultural Resources Reports

Rose Glen Specific Plan Residential Project

Cultural Resources Assessment

June 2022 | 03669.00003.001

Prepared for:

Century Communities
4695 MacArthur Court, Suite 300
Newport Beach, CA 92660

Prepared by:

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

National Archaeological Database Information

Authors:	Kassie Sugimoto, M.A. and Trevor Gittelhough, M.A., RPA
Firm:	HELIX Environmental Planning, Inc.
Client/Project:	Century Communities / Rose Glen Specific Plan Residential Project
Report Date:	June 2022
Report Title:	Cultural Resources Assessment for the Rose Glen Specific Plan Residential Project, Upland, San Bernardino County, California
Submitted to:	City of Upland
Type of Study:	Cultural Resources Assessment
New Sites:	None
Updated Sites:	None
USGS Quad:	Ontario 7.5' Quadrangle
Acreage:	Approximately 4.9 acres
Key Words:	Rose Glen Specific Plan Residential Project, San Bernardino County; Township 1 South, Range 7 West; Upland; East Arrow Highway.

TABLE OF CONTENTS

Section **Page**

EXECUTIVE SUMMARY ES-1

1.0 INTRODUCTION 1

1.1 Project Location 1
1.2 Project Description 1
1.3 Regulatory Framework 2
1.3.1 Federal 2
1.3.2 State 3
1.3.3 Native American Heritage Values 3
1.4 Project Personnel 5

2.0 PROJECT SETTING 5

2.1 Natural Setting 5
2.2 Cultural Setting 5
2.2.1 Prehistoric Period 5
2.2.2 Ethnohistory 8
2.2.3 Historical Background 13

3.0 METHODS 16

4.0 RESULTS 16

4.1 Records Search 16
4.1.1 Previously Recorded Cultural Resource Studies 16
4.1.2 Previously Recorded Cultural Resources 18
4.2 Archival Research and Contact Program 20
4.2.1 Other Archival Research 20
4.2.2 Native American Contact Program 21

5.0 SUMMARY AND MANAGEMENT RECOMMENDATIONS 22

5.1 Management Recommendations 22

6.0 REFERENCES 24

TABLE OF CONTENTS (cont.)

LIST OF APPENDICES

A Resumes of Key Personnel
B Records Search Results (Confidential, bound separately)
C Native American Correspondence (Confidential, bound separately)

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	USGS Topography	2
3	Aerial Photograph of Project Vicinity	2
4	Site Plan	2

LIST OF TABLES

No.	Title	Page
1	Previous Studies within a Half-mile of the Study Area	17
2	Previously Recorded Resources within a Half-mile of the Study Area	18
3	Native American Contact Program Responses	21

ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
APN	Assessor's Parcel Number
B.C.E.	Before Common Era
BMPs	Best Management Practices
BP	Before Present
CCR	California Code of Regulations
C.E.	Common Era
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHRIS	California Historical Resources Information System
CRHR	California Register of Historical Resources
DPR	Department of Parks and Recreation
HELIX	HELIX Environmental Planning, Inc.
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
OHP	Office of Historic Preservation
PRC	Public Resources Code
SCCIC	South Central Coastal Information Center
sf	square feet
SHPO	State Historic Preservation Officer
TCP	Traditional Cultural Properties
TCR	Tribal Cultural Resources
THPO	Tribal Historic Preservation Officer
USGS	U.S. Geological Survey

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EXECUTIVE SUMMARY

HELIX Environmental Planning, Inc. (HELIX) was contracted by Century Communities to provide cultural resources services for the Rose Glen Specific Plan Residential Project (project) in the City of Upland, San Bernardino County, California. The 4.9-acre project proposes to demolish existing structures to build 64 two-story single-family homes, with open space, an internal road system, and associated infrastructure. A cultural resources study including a records search, Sacred Lands File search, Native American outreach, a review of historic aerial photographs and maps, and a pedestrian survey was conducted for the project area. This report details the methods and results of the cultural resources study and has been prepared to comply with the California Environmental Quality Act (CEQA).

A record search was requested from the South Central Coastal Information Center (SCCIC) on September 1, 2021. HELIX received the results of this record search on November 24, 2021 which indicated that 12 cultural resource studies have been conducted within 0.5-mile of the project area, none of which intersect with the project site. The record search results also indicated that a total of 106 cultural resources have been previously recorded within 0.5-mile of the project site; however, none have been recorded within the project site. The project site is heavily developed, which completely obscures the ground visibility within the project site. As such, HELIX did not conduct a pedestrian survey due to poor visibility of the ground surface.

A Sacred Lands File search was requested from the Native American Heritage Commission (NAHC) on September 1, 2021. The results of the Sacred Lands File search were received on October 5, 2021. The results did not identify any known tribal cultural resources or sacred lands within the proposed project site. However, HELIX submitted outreach letters to the 16 Native American tribes and tribal representatives identified by the NAHC. To date, only three responses have been received. The Fort Yuma Quechan Indian Tribe and Morongo Band of Mission Indians stated they do not have any comments on the proposed project, and the Tribe wishes to defer to the tribes local to the project site. The Gabrieleno Band of Mission Indians - Kizh Nation also submitted a response requesting who the lead agency for the project is. However, the Tribe did not provide any additional comments on the project for this report.

Based on the results of the current study, no historical resources will be affected by the Rose Glen Specific Plan Residential Project. However, due to the known cultural sensitivity within the project vicinity, the alluvial setting of the project site, and its location adjacent to the Pacific Electric Rail Line, it is recommended that ground disturbing activities be monitored by a qualified archaeologist and a Native American monitor. The monitoring program would include attendance by the archaeologist and Native American monitor at a preconstruction meeting with the grading contractor and the presence of archaeological and Native American monitors during initial ground disturbing activities on site. Both archaeological and Native American monitors would have the authority to temporarily halt or redirect grading and other ground-disturbing activity in the event that cultural resources are encountered. If significant cultural material is encountered, the project archaeologist will coordinate with the monitoring tribe, the applicant, and City staff to develop and implement appropriate mitigation measures.

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1.0 INTRODUCTION

HELIX Environmental Planning, Inc. (HELIX) was retained by Century Communities (Client) to provide cultural resource consulting services in support of the Rose Glen Specific Plan Residential Project (project) in the City of Upland, San Bernardino County, California. The project is located in southeast Upland at the intersection of East Arrow Highway and Olivewood Drive. The project area is currently developed as a lumber yard that has been in operation from the mid twentieth century through present-day. The proposed project would demolish and replace a series of extant warehouses, associated structures, and hardscaping currently occupying the 4.9-acre parcel. A cultural resources study including a records search, Sacred Lands File search, Native American outreach, and a review of historic aerial photographs and maps was conducted for the project area. This report details the methods and results of the cultural resources study and has been prepared to comply with the California Environmental Quality Act (CEQA). A separate historic resource evaluation report was prepared to address historic built environment resources.

1.1 PROJECT LOCATION

The project is located in the City of Upland in San Bernardino County (Figure 1, *Regional Location*). The project is located 2.43 miles south of Interstate 210 (I-210, Foothill Freeway) and 1.04 miles north of I-10 (San Bernardino Freeway) within an unsectioned portion of Township 1 South, Range 7 West, on the U.S. Geological Survey (USGS) 7.5' Ontario quadrangle (Figure 2, *USGS Topography*). The approximately 4.9-acre project site is located within Assessor's Parcel Number (APN) 1046-481-14-0000 and is bordered by East Arrow Highway to the north, residential properties and Olivewood Drive to the east, a commercial property to the west, and residential properties to the south (Figure 3, *Aerial Photograph*). The project area is currently developed as a lumber yard with associated structures.

1.2 PROJECT DESCRIPTION

The project proposes to demolish the extant structures on the subject property and replace them with 64 two-story single family detached residential homes (Figure 4, *Site Plan*). The homes, which will be designed in the Spanish/Santa Barbara architectural style, will range from 1,544 to 1,547 square feet (sf), and extend to a maximum height of 40 feet. Additional project features 8,904 sf of common open space that would support open lawn play areas, tot lot, picnic areas and benches, and additional smaller landscaped common open space areas. Parking would be accommodated through the provision of private spaces in the attached two-car garages (for a total of 128 spaces) and an additional 47 guest spaces that would be distributed through the project site. The existing ten-foot block wall that separates the project site from the residential land uses to the east would remain and be painted. Additionally, a minimum 6-foot-high sound wall is proposed along the westerly side of the project, and a new wall would be erected along the project's western and southern project boundary.

Site access would be via a gated pass-through entry lane for residences with a separate lane for guests along Arrow Highway, with a secondary gated emergency-only access provided along North 14th Avenue. A network of internal private drives with 24-foot right of way would provide access to the individual homes. Internal drives would be privately owned and maintained. Pedestrian connectivity is a major goal within the project, and pedestrian connections are provided through sidewalks on both sides of all streets and within the recreation areas.

Utility infrastructure improvements and connections would also occur to accommodate site development. An existing six-inch water line on site would be removed and realigned with an 8-inch water line lateral connection to East Arrow Highway and reducing connection to North 14th Avenue. If fire flow requirements are not met, a secondary lateral connection to the existing 8-inch water line in the adjacent property may be needed to complete the internal loop system. Wastewater discharges from the site would occur through internal sewer mains connecting to an existing 8-inch sewer line in North 14th Avenue. An existing 8-inch sewer line would be abandoned and a new sewer line 8-inch sewer line would be rerouted through the site. The project would decrease the area of impervious surfaces in relation to the existing site conditions and would incorporate Best Management Practices (BMPs) for the collection and treatment of storm water as part of an overall low-impact development concept. The on-site storm system would convey runoff through the street curbs and catch basins to a 7,453-sf underground vault system to infiltrate on site. Any high flows would be conveyed through a new off-site proposed system from the site through North 14th Avenue and 9th Street and connect to an existing San Bernardino County Flood Control District structure at Bodenhamer Street. Additionally, the existing overhead electrical lines that traverse the property would be undergrounded, and other local connections would occur to municipal infrastructure.

In all, 5,000 sf of structures would be demolished along with 213,444 sf of asphalt that would be hauled from the site. In addition, 2,727 cubic yards of imported soil would be hauled to the site. To accommodate the residences, the project would require a General Plan land use amendment and a zone change from the current Light Industrial/Business Park designation and Light Industrial Zoning to Specific Plan.

1.3 REGULATORY FRAMEWORK

Cultural resources are defined as buildings, sites, structures, or objects, each of which may have historical, architectural, archaeological, cultural, and/or scientific importance. Significant resources are those resources which have been found eligible to the California Register of Historical Resources (CRHR) or National Register of Historic Places (NRHP), as applicable.

1.3.1 Federal

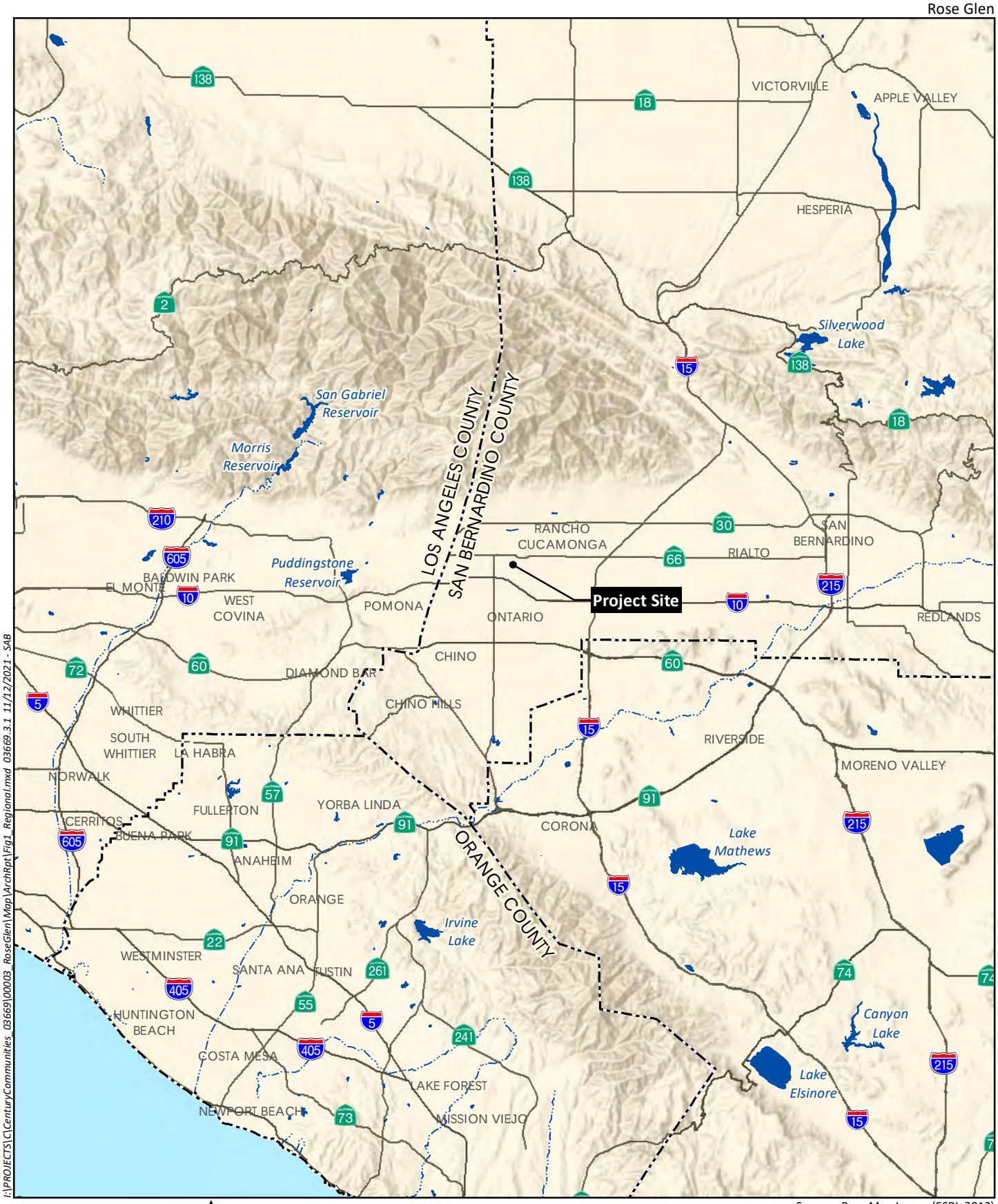
Federal regulations that would be applicable to the project if there is a federal nexus, such as permitting or funding by a federal agency, consist of the National Historic Preservation Act (NHPA) and its implementing regulations (16 United States Code 470 et seq., 36 Code of Federal Regulations [CFR] Part 800). Section 106 of the NHPA requires Federal agencies to take into account the effects of their undertakings on "historic properties", that is, properties (either historic or archaeological) that are eligible for the NRHP. To be eligible for the NRHP, a historic property must be significant at the local, state, or national level under one or more of the following four criteria:

A. associated with events that have made a significant contribution to the broad patterns of our history;

B. associated with the lives of persons significant in our past;

C. embodies the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; and/or

D. has yielded or may be likely to yield, information important in prehistory or history.



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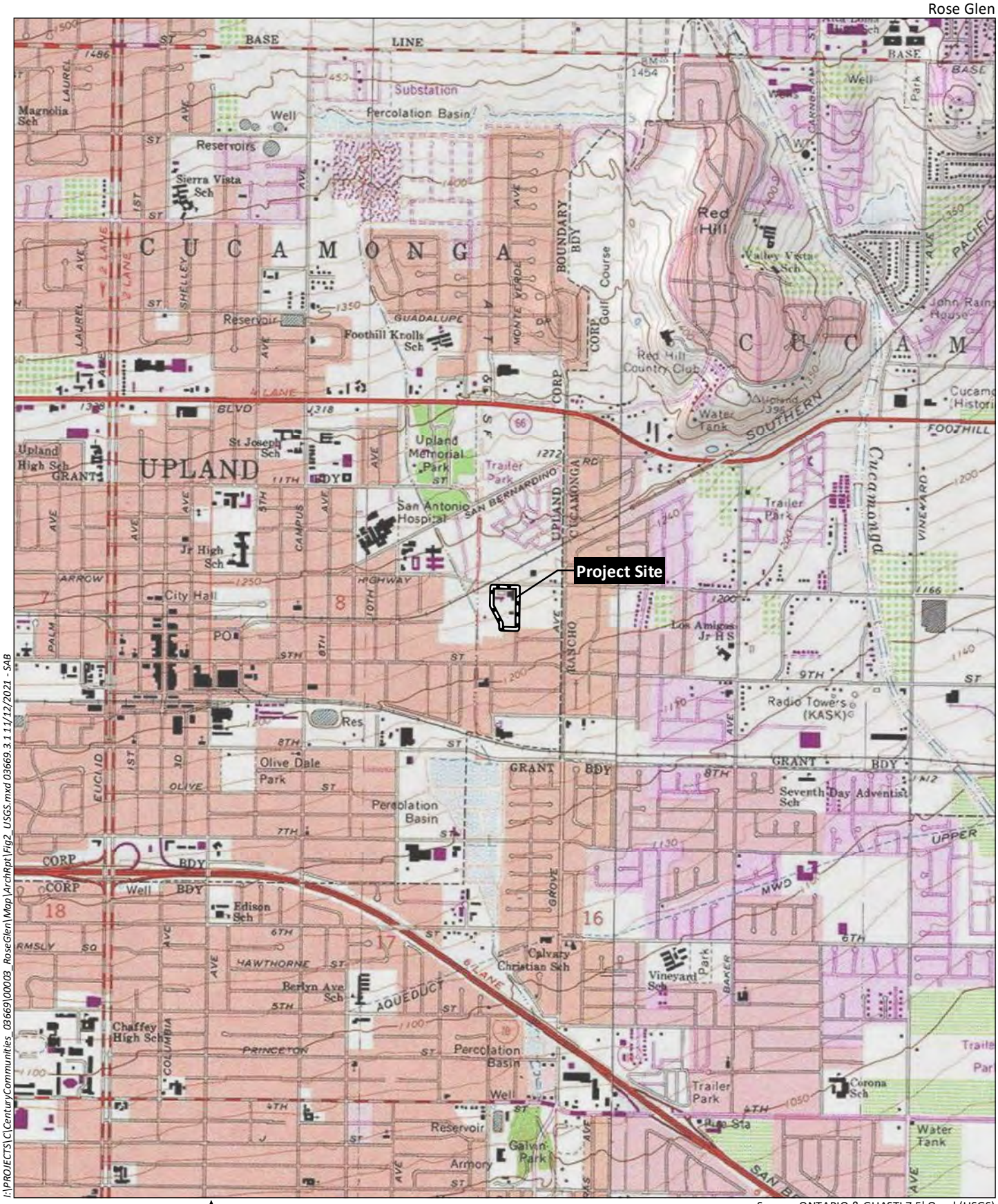
HELIX Environmental Planning

Regional Location

Figure 1



I:\PROJECTS\C\CenturyCommunities_03669\00003_RoseGlen\Map\ArchRpt\Fig2_USGS.mxd 03669.3.1 11/12/2021 - SAB

0 2,000 Feet

Source: ONTARIO & GUASTI 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2

Source: Aerial (San Bernardino County, 2020)

HELIX Environmental Planning

Aerial Photograph of Project Vicinity

Figure 3

Source: Hunsaker 2021

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HELIX Environmental Planning

Site Plan

Figure 4

1.3.2 State

The California Environmental Quality Act, Public Resources Code (PRC) 21084.1, and California Code of Regulations (CCR) Title 14 Section 15064.5, address determining the significance of impacts to archaeological and historic resources and discuss significant cultural resources as "historical resources," which are defined as:

- resource(s) listed or determined eligible by the State Historical Resources Commission for listing in the CRHR (14 CCR Section 15064.5[a][1])

- resource(s) either listed in the National Register of Historic Places (NRHP) or in a "local register of historical resources" or identified as significant in a historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, unless "the preponderance of evidence demonstrates that it is not historically or culturally significant" (14 CCR Section 15064.5[a][2])

- resources determined by the Lead Agency to meet the criteria for listing on the CRHR (14 CCR Section 15064.5[a][3])

For listing in the CRHR, a historical resource must be significant at the local, state, or national level under one or more of the following four criteria:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States;

2. It is associated with the lives of persons important to local, California, or national history;

3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master or possesses high artistic values;

4. It has yielded or has the potential to yield information important to the prehistory or history of the local area, California, or the nation.

Under 14 CCR Section 15064.5(a)(4), a resource may also be considered a "historical resource" for the purposes of CEQA at the discretion of the lead agency.

All resources that are eligible for listing in the NRHP or CRHR must have integrity, which is the authenticity of a historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance. Resources, therefore, must retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. In an archaeological deposit, integrity is assessed with reference to the preservation of material constituents and their culturally and historically meaningful spatial relationships. A resource must also be judged with reference to the particular criteria under which it is proposed for nomination.

1.3.3 Native American Heritage Values

Federal and state laws mandate that consideration be given to the concerns of contemporary Native Americans with regard to potentially ancestral human remains, associated funerary objects, and items

of cultural patrimony. Consequently, an important element in assessing the significance of the study site has been to evaluate the likelihood that these classes of items are present in areas that would be affected by the proposed project.

Potentially relevant to prehistoric/Native American archaeological sites is the category termed Traditional Cultural Properties (TCP) in discussions of cultural resource management performed under federal auspices. “Traditional” in this context refers to those beliefs, customs, and practices of a living community of people that have been passed down through the generations, usually orally or through practice. The traditional cultural significance of a historic property, then, is significance derived from the role the property plays in a community's historically rooted beliefs, customs, and practices (Parker and King 1998).

Cultural resources can include TCPs, such as gathering areas, landmarks, and ethnographic locations in addition to archaeological districts. Generally, a TCP may consist of a single site, or group of associated archaeological sites (district or traditional cultural landscape), or an area of cultural/ethnographic importance. A TCP may be considered eligible for the National Register based on “its association with cultural practices or beliefs of a living community that (a) are rooted in that community’s history, and (b) are important in maintaining the continuing cultural identity of the community” (Parker and King 1998:1). Strictly speaking, TCPs are both tangible and intangible; they are anchored in space by cultural values related to community-based physically defined “property referents” (Parker and King 1998:3). On the other hand, TCPs are largely ideological, a characteristic that may present substantial problems in the process of delineating specific boundaries. Such a property’s extent is based on community conceptions of how the surrounding physical landscape interacts with existing cultural values. By its nature, a TCP need only be important to community members and not the general outside population as a whole. In this way, a TCP boundary may be defined based on viewscape, encompassing topographic features, the extent of an archaeological district or use area, or a community’s sense of its own geographic limits. Regardless of why a TCP is of importance to a group of people, outsider acceptance or rejection of this understanding is made inherently irrelevant by the relativistic nature of this concept.

In California, the Traditional Tribal Cultural Places Bill of 2004 requires local governments to consult with Native American representatives during the project planning process, specifically before adopting or amending a General Plan or a Specific Plan, or when designating land as open space for the purpose of protecting Native American cultural places. The intent of this legislation is to encourage consultation and assist in the preservation of Native American places of prehistoric, archaeological, cultural, spiritual, and ceremonial importance. It further allows for tribal cultural places to be included in open space planning.

California State Assembly Bill 52 (AB 52) revised PRC Section 21074 to include Tribal Cultural Resources (TCRs) as an area of CEQA environmental impact analysis. As a general concept, a TCR is similar to the federally defined termed TCP; however, it incorporates consideration of local and state significance and required mitigation under CEQA. A TCR may be considered significant if it is (i) included in a local or state register of historical resources; (ii) determined by the lead agency to be significant pursuant to criteria set forth in PRC Section 5024.1; (iii) a geographically defined cultural landscape that meets one or more of these criteria; (iv) a historical resource described in PRC Section 21084.1 or a unique archaeological resource described in PRC Section 21083.2; or (v) a non-unique archaeological resource if it conforms with the above criteria.

1.4 PROJECT PERSONNEL

A cultural resources survey was conducted by HELIX in 2021 to assess whether the project would have any effects on cultural resources. Mary Robbins-Wade, M.A., RPA served as the principal investigator and provided senior technical oversight; Trevor Gittelhough, M.A., RPA and Kassie Sugimoto, M.A. served as the primary authors of this report. Resumes of key HELIX personnel are included as Appendix A. This report addresses the methods and results of the cultural resources study, which included a records search, Sacred Land File search, Native American outreach, and historic archival research.

2.0 PROJECT SETTING

2.1 NATURAL SETTING

The project area is located immediately south of the San Gabriel Mountains, in the City of Upland. The San Gabriel Mountains are on a thin slice of crust, bounded by the San Andreas and San Gabriel fault zones, that include Proterozoic and Mesozoic bedrock (Barth 1990). Following the emplacement of the bedrock, movement along the major bounding faults from the Late Cretaceous to the Paleocene resulted in the initiation of uplift of the mountains (Barth 1990). Ongoing tectonic activity, in the form of compressional deformation from the large restraining bend in the San Andreas fault zone, results in the steep terrane and high erosional rates characteristic of the mountains today (Dixon et al. 2012). Geologically, the project area is underlain by alluvial fan gravel and sand derived from the San Gabriel Mountains, dating to the Pleistocene (Bortugno and Spittler 1986). Soils consist of Tujunga gravelly loamy sand (0 to 9 percent slopes); this series consists of excessively drained soils formed in stable and competent alluvium, derived primarily from granite (Natural Resources Conservation Service [NRCS] 2017).

The project area is set within an alluvial fan formed from streams flowing from the San Gabriel Mountains, depositing soils from the base of dissected hills to the south and above the Santa Clarita River floodplain. The south-flowing Arroyo Secco is located approximately 20.5 miles west while the Rio Honda is approximately 17.6 miles east. The project area is currently occupied by the Arrow Truss Company lumber yard, along with associated facilities, and has been developed since at least 1956 (see History of the Project Area section below). The project area is relatively flat and has little topographic relief, and the vicinity has been heavily developed with residential neighborhoods.

2.2 CULTURAL SETTING

2.2.1 Prehistoric Period

Archaeological research in Southern California has identified several distinct chronological sequences that are used to understand cultural shifts within the region. Wallace (1955, 1978) developed a prehistoric chronology for the southern California coastal region that was built on early studies and data synthesis, which is widely used to this day and is also applicable to many near-coastal and inland areas. Divided into four distinct periods, Wallace's prehistoric sequence is as follows: Early Man, Milling Stone, Intermediate Prehistoric, and Late Prehistoric. Though the sequence originally did not have a high level of chronological precision from the lack of absolute date information (Moratto 1984), this has been alleviated by the plethora of radiocarbon dates that have been collected in the past four decades by

southern California researchers (Byrd and Raab 2007). Since its creation, several revisions have been made to Wallace's (1955) synthesis using these dates, as well as projectile point assemblages (e.g., Koerper and Drover 1983; Koerper et al. 2002; Mason and Peterson 1994).

Chronological Period	Characteristics	Date Range
Early Man	Diverse mixtures of subsistence combining hunting and gathering but with a greater emphasis on hunting in many places.	Circa 10,000–6000 Before Common Era (B.C.E.)
Milling Stone	Subsistence strategies shift from hunting/gathering to those centered on collecting plant foods and the hunting of small animals. Begin to see both extended and loosely flexed burials.	6600–3000 B.C.E.
Intermediate	Shifts in strategies to a heavier emphasis on maritime subsistence strategies, along with a wider use of plant foods, that trend towards adaptations to regional and local resources. Fully flexed burials, often placed face-down or face-up, and oriented toward the north or west.	3000 B.C.E.–C.E. 500
Late Prehistoric	The increased usage of bow and arrow technology, a matching increase in land and sea mammal hunting, along with the continuation of wide-ranging uses of plant foods. Both the diversity and complexity of material culture increases dramatically. Increase in populations, accompanied by the presence of larger, more permanent villages.	C.E. 500–Historic Contact

Proposed dates for the earliest human occupation in California vary from around 20,000 years ago to 10,000 years ago. Several researchers have argued for the presence of Pleistocene humans in California at much early dates (Carter 1957, 1978, 1980; Minshall 1976); however, these sites identified as "early man" are all controversial. The material from the sites is generally considered nonartifactual, and the investigative methodology is often questioned (Moratto 1984). The most widely recognized timeline for the prehistory of Southern California is that proposed by Wallace (1955) and summarized in the table above, dividing the region's prehistory into four main periods, or "horizons": Early, Milling Stone (Archaic Period), Intermediate, and Late horizons.

The best example of Early Prehistoric Period archaeological evidence in Southern California is in the San Dieguito complex of San Diego County, dating to over 9,000 years ago (Warren 1967; Warren et al. 2004). The San Dieguito Tradition is thought by most researchers to have an emphasis on big game hunting and coastal resources (Warren 1967). The material culture of the San Dieguito complex consists primarily of scrapers, scraper planes, choppers, large blades, and large projectile points. In some areas of California, the Early Prehistoric Period is often referred to as the Paleo-Indian period and is associated with the last Ice Age occurring during the Terminal Pleistocene (pre-10,000 years ago) and the Early Holocene, beginning circa 10,000 years ago (Erlandson 1994, 1997).

The Millingstone Horizon, or Archaic Period, dates from 7,000-8,600 to 1,300-3,000 years ago and is generally consistent with the Oak Grove complex of Santa Barbara, the Topanga complex of Los Angeles and the La Jolla complex of San Diego (Warren et al. 2004). The Millingstone Horizon is also referred to

as the Encinitas Tradition (Warren 1968). The Encinitas tradition is generally "recognized by millingstone assemblages in shell middens, often near sloughs and lagoons" (Moratto 1984:147). According to Wallace, "a changeover from hunting to the collection of seed foods is clearly reflected in the archaeological record for the period between 6000 and 3000 B.C.E. (before current era). The importance of seeds in the diet of the prehistoric peoples can be seen in the numbers of food-grinding implements present at their settlements" (Wallace 1978:28). Basin metates, manos, discoidals, a small number of Pinto series and Elko series points, and flexed burials are also characteristic. Most of the archaeological evidence for Archaic Period occupation in southern California is derived from sites located in near-coastal valleys, and around estuaries that are present along the San Diego coast (Warren et al. 2004). In Riverside County, the Archaic Period occupation is represented by diagnostic artifacts and radiocarbon dates identified at sites situated the within Perris and Domenigoni valleys (Bettinger 1974; Goldberg 2001; Robinson 2001). Archaeological excavations conducted for the Perris Reservoir Project in Perris Valley yielded radiocarbon dates of circa 2,200 Before Present (BP) (Bettinger 1974) and several sites identified during archaeological studies conducted for the Eastside Reservoir (Diamond Valley Lake) Project dated to what the researchers termed the Middle Archaic (7,000 to 4,000 years ago) and Late Archaic (4,000 to 1,500 years ago) periods (Goldberg 2001).

Dates for the Intermediate Horizon vary by locale but can generally be dated to between 3,000 B.C.E. and 500 C.E. (Elsasser 1978). The Intermediate Horizon is consistent with the Hunting Culture of Santa Barbara County and is characterized by the presence of Pinto style points, named after the Pinto Basin in Riverside County, an increased use of the mortar and pestle, and the consumption of fleshier foods such as acorns as opposed to small, hard seeds (Stickel 1978). This change resulted in the adoption of a more sedentary lifestyle as seen in the presence of seasonal campsites (Van Horn 1980).

The Late Prehistoric period in southern California is characterized by the incursion of Uto-Aztecan - speaking people who occupied large portions of the Great Basin and an area stretching from southern Arizona and northwest and central Mexico into Nevada, Oregon, and Idaho (Miller 1986). The expansion of the Takic group into southern California is unrefined, but several scholars have hypothesized as to when and how the so-called "Uto-Aztecan wedge" occurred. Sutton (2009) argues that the Takic group expanded into southern California from the San Joaquin Valley about 3,500 years ago. Moratto (1984) also proposes that Takic expansion into the Southern Coast region correlates to the end of the Early Period (Late Archaic) ca. 3,200 to 3,500 years ago, while Golla (2007) suggests an expansion of Uto-Aztecan speakers into southern California at approximately 2,000 years ago. While the exact chronology of Takic-speaking groups' immigration to southern California remains uncertain, the beginning of the Late Prehistoric Period is marked by evidence of a number of new tool technologies and subsistence shifts in the archaeological record and is characterized by higher population densities and intensification of social, political, and technological systems. The changes include the production of pottery and the use of the bow and arrow for hunting instead of atlatl and dart, a reduction of shellfish gathering in some areas, an increase in the storage of foodstuffs such as acorns, and new traits such as the cremation of the dead (Gallegos 2002; McDonald and Eighmey 1998).

Native American population figures in the region substantially increased toward the end of the Late Prehistoric Period. After 1600 C.E., a change occurred in settlement and subsistence patterns, and land use intensified region, which was reflected into the ethnohistoric period (Wilke 1974, 1978; Goldberg 2001).

2.2.2 Ethnohistory

The project is located within the territory of the Gabrieleño/Tongva, which was rich in villages of various sizes (King 2004; McCawley 1996:36–40). In general, however, it has been very difficult to determine the precise location of any specific Indigenous village occupied in the Ethnohistoric period (McCawley 1996:31–32). Traditional place names referred to at the time of Spanish contact did not necessarily represent a continually occupied settlement at a single location, and in many cases, these communities were in fact representative of several smaller camps scattered across a general area, shaped by the local geography and subject to change over generations (Johnston 1962:122). By the time ethnographers, anthropologists, and historians began efforts to document their locations, many of the villages had been abandoned, their locations already heavily affected by agricultural and urban development, and Indigenous lifeways had been changed forever. Additionally, alternative names and spellings for historic communities, conflicting reports on their meaning, and differing geographic reference points, from different informants, further confound relocation attempts. Nevertheless, the project area is shown on ethnohistoric maps variously as within the traditional territory of the Gabrieleño people and of the Serrano people, both of whom are addressed below.

2.2.2.1 Gabrieleño

The project site is located within the region that has traditionally been occupied by the Gabrieleño people (also spelled as Gabrieleno or Gabrielino; Bean and Smith 1978a:538; Kroeber 1925: Plate 57). Other Indigenous groups in the surrounding areas include the Chumash to the north and northwest, the Tataviam/Alliklik to the north, the Serrano to the east, and the Luiseño and Juaneño to the south. Interactions between these groups are well-documented, comprised primarily of trade and intermarriage.

The name Gabrieleño identifies the Indigenous people who were administered by the Spanish missionaries settled at Mission San Gabriel. This group is now considered to have a regional dialect of the Gabrielino language, along with the Santa Catalina Island and San Nicolas Island dialects (Bean and Smith 1978:538). In the post-European contact period, Mission San Gabriel included natives of the greater Los Angeles area, while also including members of surrounding Indigenous groups from other areas such as Kitanemuk, Serrano, and Cahuilla. There is little evidence that the people we call Gabrieleño had a broad term for their group (Dakin 1978:222); rather, they identified themselves as an inhabitant of a specific community with locational suffixes (e.g., a resident of Yaanga was called a Yabit, much the same way that a resident of New York is called a New Yorker; Johnston 1962:10).

Several native words have been suggested as labels for the broader group of Indigenous people from the Los Angeles region. These include Tongva (or Tong-v; Merriam 1955:7–86) and Kizh (Kij or Kichereno; Heizer 1968:105), though evidence indicated that these terms referred to local places or smaller groups of people within the larger group that we now call Gabrieleño. Nevertheless, many present-day descendants of these people have taken on Tongva as a preferred group name because it has a native rather than Spanish origin (King 1994:12). Thus, the term Gabrieleño/Tongva is used in the remainder of this report when discussing the Indigenous people of the Los Angeles Basin and their descendants.

The Gabrieleño/Tongva subsistence economy was centered on hunting and gathering. Due to the rich and varied nature of their environment, the Indigenous population exploited mountains, foothills, valleys, deserts, riparian, estuarine, and open and rocky coastal eco-niches. Acorns served as the staple food, supplemented by the roots, leaves, seeds, and fruits of a variety of flora (e.g., islay, cactus, yucca,

sages, and agave). Freshwater and saltwater fish, shellfish, birds, reptiles, and insects, as well as both large and small mammals, were also hunted or collected and served as a large part of their diet (Bean and Smith 1978a:546; Kroeber 1925:631–632; McCawley 1996:119–123, 128–131).

A wide variety of tools and implements were used by the Gabrieleño/Tongva to gather and collect food resources. These included the bow and arrow, traps, nets, blinds, throwing sticks and slings, spears, harpoons, and hooks for hunting and fishing. Those groups located near the ocean used oceangoing plank canoes, or *ti'at*, and tule balsa canoes for fishing, travel, and trade between the mainland and the Channel Islands (McCawley 1996:7). Gabrieleño/Tongva people processed their resources with a variety of tools, including hammerstones and anvils, mortars and pestles, manos and metates, strainers, leaching baskets and bowls, knives, bone saws, and wooden drying racks. Food was likewise consumed from a variety of vessels, with Catalina Island steatite used to make ollas and cooking vessels (Blackburn 1963; Kroeber 1925:629; McCawley 1996:129–138).

At the time of Spanish contact, the basis of Gabrieleño/Tongva religious life was the Chinigchinich cult, centered on the last of a series of heroic mythological figures. Chinigchinich gave instruction on laws and institutions and also taught the people how to dance, the primary religious act for this society. He later withdrew into heaven, where he rewarded the faithful and punished those who disobeyed his laws (Kroeber 1925:637–638). The Chinigchinich religion seems to have been relatively new when the Spanish arrived. It was spreading south into the southern Takic groups even as Christian missions were being built and may represent a mixture of native and Christian beliefs and practices (McCawley 1996:143-144).

The burial practices of the Gabrieleño/Tongva included both burials and cremations, with inhumation the more common practice on the Channel Islands and the adjacent mainland coastal areas, while cremation was the primary practice on the remainder of the coast and through the inland areas (Harrington 1942; McCawley 1996:157). Remains were buried in distinct burial areas, sometimes associated with villages and sometimes with no clear village association (Altschul et al. 2007). Cremation ashes have been found in archaeological contexts buried within stone bowls and in shell dishes (Ashby and Winterbourne 1966:27), as well as scattered among broken ground stone implements (Cleland et al. 2007). Archaeological data corresponds with ethnographic descriptions of an elaborate mourning ceremony that occurred over several days and included a variety of offerings, such as seeds, stone grinding tools, animal skins, baskets, wood tools, shell beads, bone and shell ornaments, and projectile points and knives. Offerings varied, both with the sex of the deceased individual as well as their status (Dakin 1978:234–365; Johnston 1962:52–54; McCawley 1996:155–165).

2.2.2.2 Serrano/Vanuyme

The project area is situated within the area historically occupied by the Native American group generally referred to as the Serrano (Bean and Smith 1978b; Benedict 1924; Kroeber 1925; Strong 1929). The name Serrano, a Spanish word applied by early Spanish explorers, means "mountaineers–those of the Sierras" or "highlanders."

Although several indigenous words have been recorded that named the people known as Serrano, most are from neighboring groups and do not represent what the Serrano would have called themselves. One exception is Kai via tam, recorded and translated by Kroeber (1908b:36) as "mountains." Kroeber was uncertain if this term was a translation back into the people's own language of what the Spanish had named them, or if this term authentically denoted the Serrano word for themselves without any foreign

influence. Serrano living today, however, have also referred to themselves as Yuhaviatum, or "people of the pines." This is apparently not only in reference to the trees of the high mountains but also to a creation story that links the people with tears and pine nuts. According to the story, when the Creator died in the high mountains, the first people grieved and, in their grieving, became pine trees; pine nuts are thus likened to the grieving peoples' tears. Subsequent generations followed the fruition of the first people and are said to sustain themselves on those tears (San Manuel Band of Mission Indians 2008).

The Serrano language is part of the Serran division of a branch of the Takic family of the Uto-Aztecan linguistic stock (Mithun 2006:539, 543). The two Serran languages, Kitanemuk and Serrano, are closely related. Kitanemuk ethnographic lands were located to the northwest of the Serrano. Other neighboring Takic-speaking groups include the Tataviam and Gabrielino (or Tongva) to the west, and the Cahuilla to the south. The Kawaiisu and Chemehuevi, located north and east of the Serrano, respectively, spoke languages that belong to the Numic branch of the Uto-Aztecan family.

Serrano was originally spoken by a relatively small group located within the San Bernardino and Sierra Madre Mountains, and the term "Serrano" has come to be ethnically defined as the name of the people in the San Bernardino Mountains (Kroeber 1925:611). The Vanyume, who lived along the Mojave River and associated Mojave Desert areas and are also referred to as the Desert Serrano, spoke either a dialect of Serrano or a closely related language (Mithun 2006:543).

According to the records by Fr. Francisco Garcés, who was the first European to travel in this region in 1776, the name Vanyume is derived from the term for them (Beñeme) used by the Mojave (Coues 1900:Vol. 1:240). Very little is known of the Vanyume-speaking people because the group was heavily disrupted by the Spanish missionaries between the early 1820s and 1834. By the 1900s, the group was considered extinct (Bean and Smith 1978b:570; Kroeber 1925:614). Kroeber (1925:614–615) does make a distinction between the Serrano and Vanyume by reporting that the Vanyume were friendly with the Chemehuevi and Mohave to the east, whereas the Serrano maintained animosity with these groups. The area of combined Serrano/Vanyume occupation—the San Bernardino Mountains, the southwestern portions of the Mojave Desert, and the Mojave River area—has become collectively known as the Serrano area.

The Serrano occupied an area in and around the San Bernardino Mountains between approximately 450 and 3,350 meters (1,500 to 11,000 feet) above mean sea level. Their territory extended west into the Cajon Pass, east as far as Twentynine Palms, north past Victorville, and south to the Yucaipa Valley. Year-round habitation tended to be located out on the desert floor, at the base of the mountains, and up into the foothills, with all habitation areas requiring year-round water sources (Bean and Smith 1978b; Kroeber 1908b).

Most Serrano lived in small villages located near water sources (Bean and Smith 1978b:571). Houses measuring 12 to 14 feet in diameter were domed and constructed of willow branches and tule thatching. The interiors were encircled with tule mats. Each house was occupied by a single extended family, comprising a husband, wife (or wives), children, grandparents, and perhaps a widowed aunt or uncle, and was a central family unit gathering place for sleeping and storage. Much of the daily routine occurred outdoors in the open or under square ramadas constructed of at least four posts, cross-beams, and tule-thatched roofs. Many of the villages had a ceremonial house, used both as a religious center and the residence of the lineage leaders. When hunting, the men would sometimes construct individual dwellings away from the village. Additional structures within a village might include granaries and a large circular subterranean sweathouse. The sweathouses were typically built along streams or pools.

A village was usually composed of at least two lineages, referred to as a lineage set. In each village, one lineage tended to be more dominant than the other lineage. Lineages tended to rise and fall in dominance. A lineage set would intermarry, share ties of economic reciprocity, and share the ceremonial house and ceremonial bundle. Lineage sets shared the responsibility of conducting religious ceremonies together through the one lineage's religious leader and his assistant; the assistant was the religious leader of the other lineage of the set. The Serrano were loosely organized along patrilineal lines and associated themselves with one of two exogamous moieties or "clans"—the Wahiyam (coyote) or the Tukum (wildcat) moiety.

Organization of Serrano lineage sets was considered by Kroeber (1925:617–618) to be similar to political groups. He defined a lineage set as occupying one village, representing at least two moieties, and coordinating its hunting and gathering activities per the religious deliberations and scheduling determined by two leaders (one from each of the moieties), with one leader occupying the ceremonial house and the other possessing the ceremonial bundle. Often, a lineage set had the exclusive power to forge and maintain economic ties to other villages of neighboring Serrano (including Vanyume), Cahuilla, Chemehuevi, Gabrielino, and Cupeño.

Serrano territory was a trade nexus between inland tribes and coastal tribes. Ethnohistory also suggests that the Serrano played a role in the trade of horses from the southwest to the California coast (Bean and Vane 2002). Despite their large geographic extent, as well as their control of significant travel corridors, considering the politically autonomous structure and function of the village unit, some anthropologists have difficulty considering the Serrano a unified "tribe," as that word is defined as a unit of people with a common political leadership (Kroeber 1925:617; Strong 1929:14).

The fundamental economy of the Serrano was one of subsistence hunting and collecting plant goods, with occasional fishing (Bean and Smith 1978b:571). Large and small animals were hunted, including mountain sheep, deer, antelope, rabbits, small rodents, and various birds, particularly quail. Plant staples consisted of seeds; acorn nuts of the black oak; piñon nuts; bulbs and tubers; and shoots, blooms, and roots of various plants, including yucca, berries, barrel cacti, and mesquite. Fire was used as a management tool to increase yields of specific plants, particularly chía.

Trade and exchange were an important aspect of the Serrano economy. Those living in the lower-elevation, desert floor villages traded foodstuffs with people living in the foothill villages who had access to a different variety of edible resources. In addition to intervillage trade, ritualized communal food procurement events, such as rabbit and deer hunts and piñon, acorn, and mesquite nut-gathering events, integrated the economy and helped distribute resources that were available in different ecozones.

A variety of materials were used for hunting, gathering, and processing food, many of which were also used for shelter, clothing, and ceremonial items. Shell, wood, bone, horn, stone, plant materials, animal skins, and feathers were used for making money, baskets, rabbit skin blankets, mats, nets, and bags. The Serrano made pottery and used it daily to carry and store water or foodstuffs; ceramics were also used as ceremonial objects. They also made awls, sinew-backed bows, arrows, arrow straighteners, throwing sticks (for hunting), traps, fire drills, stone pipes, musical instruments of various types (rattles, rasps, whistles, bull-roarers, and whistles), yucca fiber cordage for snares, nets and carrying bags, and clothing (Bean and Smith 1978b:571; Bean and Vane 2002). A strong tradition of basket weaving incorporated the use of juncus sedge, deergrass, and yucca fiber. Foods were cooked either in earth ovens, in watertight baskets using heated cooking rocks and constant stirring, or by parching through use of hot

embers and a constant tossing motion of shallow trays containing the grains. Animal bones were boiled and then cracked for access to the marrow. A variety of methods were used in the drying and preserving of foods for later consumption.

Religious doctoring among the Serrano took place within the ceremonial center (Bean and Smith 1978b:573). Their doctoring tradition was based on dreaming techniques aided by the hallucinogenic datura plant, sucking techniques applied by the doctor to the patient's body, and by the administration of pharmacopeia of traditional medicinal plants. The above combination of traditional healing techniques, plants, and knowledge were also common to neighboring groups occupying the southern California mountain-desert biomes. Songs and rituals to the creator for the conversion of plants and animals into the foods, medicines, and utensil materials necessary for Serrano sustenance played an important role in any hunting, gathering, or healing endeavor (Bean and Vane 2002). Shamans also had significant roles in typical life rituals, including birth, puberty, marriage, and death. The administration of datura was particularly important in the boys' puberty ceremony since they were expected to have dreams that would determine the future mileposts of their lives.

Prior to Spanish occupation of Serrano lands, cremation of the body and the deceased's possessions was practiced. The completion of the death cycle involved a week-long ceremony that involved ritualized gift giving, feasting, naming, public display of the lineage set ceremonial bundle, an eagle killing and dance ceremony, and a final burning of an effigy depicting the deceased.

Mainly due to the inland territory that Serrano occupied beyond Cajon Pass, contact between Serrano and Europeans was relatively minimal prior to the early 1800s. As early as 1790, however, Serrano began to be drawn into mission life (Bean and Vane 2002). More Serrano were relocated to Mission San Gabriel in 1811 after a failed indigenous attack on that mission. Most of the remaining western Serrano were moved to an asistencia built near Redlands in 1819 (Bean and Smith 1978b:573). By 1834, most western Serrano had been moved to the missions, with some Serrano possibly moved to the mission at San Fernando Rey (Kroeber 1908a). Only small groups of Serrano remained in the area northeast of the San Gorgonio Pass and were able to preserve some of their native culture.

In the 1860s, a smallpox epidemic decimated many indigenous southern Californians, including the Serrano (Bean and Vane 2002). Oral history accounts of a massacre in the 1860s at Twentynine Palms may have been part of a larger American military campaign that lasted 32 days (Bean and Vane 2002:10). Surviving Serrano sought shelter at Morongo with their Cahuilla neighbors; Morongo later became a reservation (Bean and Vane 2002). Other survivors followed the Serrano leader Santos Manuel down from the mountains and toward the valley floors, and eventually settled what later became the San Manuel Band of Mission Indians Reservation. This reservation was established in 1891 (San Manuel Band of Mission Indians 2008).

In 2004, most Serrano lived either on the Morongo or San Manuel reservations (California Indian Assistance Program 2003). The Morongo Band of Mission Indians of the Morongo Reservation, established through presidential executive orders in 1877 and 1889, includes both Cahuilla and Serrano and totaled 1,097 tribal members in 2004. The reservation covers 32,718 acres of land in both consolidated and checkerboard patterns. Established in 1893, the San Manuel Band of Mission Indians included 84 Serrano tribal members in 2004 and covers 658 acres. Both Morongo and San Manuel are federally recognized tribes. People of both tribes participate in cultural programs to revitalize traditional languages, knowledge, and practices.

Although the Vanyume were considered extinct by ethnographers (Kroeber 1925:614; Bean and Smith 1978b:570), recent genealogical research combined with mitochondrial DNA (mtDNA) analysis indicates three lineages from the Fort Tejon area were originally from the village of Topipabit downstream from Victorville (California Energy Commission 2008:4.3–11). These lineages are currently part of the San Fernando Band of Mission Indians, located in Newhall. This group, which includes Kitanemuk, Inland Chumash, Tataviam, and Vanyume, has applied for federal recognition.

2.2.3 Historical Background

2.2.3.1 Spanish Period

The first European explorers to reach southern California were the members of Juan Rodriguez Cabrillo's 1542 expedition. Between that time and 1769, Spanish, British, and Russian explorers made only limited excursions into Alta (upper) California, and none established permanent settlements in the region (Starr 2007).

In 1769, the San Diego Presidio was established by Gaspar de Portolá, marking the first Spanish settlement in Alta California. At the same time, Mission San Diego de Alcalá was established by the Franciscan Father Junipero Serra, the first of 21 missions built by Spanish Franciscan monks in Alta California between 1769 and 1823. Portolá proceeded north, exploring the Arroyo Seco as he passed through the Los Angeles Basin, before heading through the San Fernando Valley, then reaching the San Francisco Bay on October 31, 1769. On September 4, 1781, 12 years after Portolá's initial visit, a dozen families from Sonora, Mexico, founded El Pueblo de la Reina de los Angeles de la Porciúncula ("The Town of the Queen of Angels on the Portiuncula River"; or simply El Pueblo de la Reina de los Angeles, "The Town of the Queen of Angels") under the specific directions of Governor Felipe de Neve.

The Portolá expedition marked the beginning of Spanish military supply routes that serviced the newly established missions, including Mission San Gabriel de Arcángel (1771), the first permanent European settlement in the area. In 1772, Spanish Commander Pedro Fages explored a canyon that passed through the mountains north of present-day Gorman and named the area Cañada de Las Uvas, or Grapevine Canyon. Friar Francisco Garces further explored the region in 1776, and Spanish settlers began establishing ranchos in the San Fernando Valley by the 1790s (Beck and Haase 1974:15).

Almost immediately, the Franciscan padres began attempts at converting the local Indigenous populations to Christianity through baptism, as well as relocating them to mission grounds (Engelhardt 1927a). Twenty-six years after the establishment of Mission San Gabriel de Arcángel, the San Fernando Mission was founded in 1797, as a stopping point between the San Gabriel and San Buenaventura missions (Engelhardt 1927b). Most of the Indigenous population in the Los Angeles Basin, as well as the surrounding foothill and mountain ranges, were persuaded or forced to settle near the two missions. These included Tataviam, Chumash, the Gabrieleño, the Serrano, many Cahuilla as far as the Coachella and San Jacinto valleys, and even some Luiseño of the San Jacinto Valley, as well as Indigenous groups from the southern Channel Islands.

2.2.3.2 Mexican Period

The primary focus of the Spanish during their occupation of California was the construction of the mission system and associated presidios for the purpose of integrating the Native American population into Christianity. While there were incentives provided by the Spanish monarchy to entice settlers to pueblos or towns, only three pueblos were established during the Spanish period, of which only two

were successful and remain as California cities (San José and Los Angeles). Several factors hindered growth within Alta California, including the threat of foreign invasion, political dissatisfaction, and unrest among the Indigenous population. In 1821, after more than a decade of intermittent rebellion and warfare, New Spain (Mexico and the California territory) won independence from Spain. A year later, in 1822, the Mexican legislative body in California ended the Spanish isolationist policies of the region, and decreed California ports open to foreign merchants.

Although Mexico had gained its independence in 1821, Spanish patterns of culture and influence remained for some time. The missions continued, operating in mostly the same fashion as they had previously, and most of the laws related to the distribution of land did not change throughout the 1820s. Beginning in the 1820s, extensive land grants were established in the interior, partly to increase the population inland and away from the more settled coastal areas where the Spanish had concentrated their colonization efforts. Furthermore, the secularization of the missions in 1834 resulted in the subdivision of former mission lands and the establishment of additional ranchos. These massive swaths of land were granted to prominent and well-connected individuals as ranchos, ushering in the Rancho Era, with the society making a transition from one dominated by the church and the military to a more civilian population, with people living on ranchos or in pueblos. With the numerous new ranchos in private hands, cattle ranching expanded and prevailed over agricultural activities. During the age of the ranchos (1834–1848), landowners focused their resources on the cattle industry and devoted large tracts to grazing. Cattle hides were the primary southern California export during this time, used to trade for goods from the east and other areas in the United States and Mexico. The influx of explorers, trappers, and ranchers associated with the land grants increased the number of non-native inhabitants of the region, and this rising population contributed further to the decimation of the Indigenous population, from the introduction and rise of diseases foreign to them, and from the violence enacted against them.

2.2.3.3 American Period

The United States took control of California in 1846, seizing Monterey, San Francisco, San Diego, and Los Angeles with little resistance. Los Angeles soon slipped from American control, however, and needed to be retaken in 1847. Approximately 600 U.S. sailors, Marines, Army dragoons, and mountain men converged under the leadership of Colonel Stephen W. Kearny and Commodore Robert F. Stockton in early January of that year to challenge the California resistance, which was led by General Jose Maria Flores. The American party scored a decisive victory over the Californios in the Battle of the Rio San Gabriel and at the Battle of La Mesa the following day, effectively ending the war and opening the door for increased American immigration (Harlow 1992:193–218). Hostilities officially ended with the signing of the Treaty of Guadalupe Hidalgo in 1848, in which the United States agreed to pay Mexico $15 million for the conquered territory, including California, Nevada, Utah, and parts of Colorado, Arizona, New Mexico, and Wyoming, representing nearly half of Mexico's pre-1846 holdings.

California officially became a state with the Compromise of 1850, which also designated Utah and New Mexico (with present-day Arizona) as U.S. territories (Wilkman and Wilkman 2006:15). Horticulture and livestock, based primarily on cattle as the currency and staple of the rancho system, continued to dominate the southern California economy through 1850s. The Gold Rush began in 1848, and with the influx of people seeking gold, cattle were no longer desired mainly for their hides but also as a source of meat and other goods. With most miners drawn to central California by its well-known strikes, Los Angeles County attracted people who were largely peripheral to the Gold Rush. During the 1850s cattle boom, rancho vaqueros drove large herds from southern to northern California to feed that region's

burgeoning mining and commercial boom. Cattle were at first driven along major trails or roads such as the Gila Trail or Southern Overland Trail, then were transported by trains when available. The cattle boom ended for southern California as neighbor states and territories drove herds to northern California at reduced prices. Operation of the huge ranchos became increasingly difficult, and droughts severely reduced their productivity (Cleland 1941).

California's acquisition by the United States substantially increased the growth of the population in California. The California gold rush, the end of the Civil War, and the passage of the Homestead Act implementing the United States' manifest destiny to occupy and exploit the North American continent brought many people to California after 1848. While the American system required that the newly acquired land be surveyed prior to settlement, the Treaty of Guadalupe Hidalgo bound the United States to honor the land claims of Mexican citizens who were granted ownership of ranchos by the Mexican government (Lech 2004). The Land Act of 1851 established a board of commissioners to review land grant claims, and land patents for the land grants that were issued from 1876 to 1893.

Upland

The community of Upland is located at the base of the San Gabriel Mountains along what was the Old Spanish Trail, which led directly to the San Gabriel Mission to the west. During the Spanish Period, the area of Upland was used by the San Gabriel Mission for grazing of their cattle herds, but in 1839 the secularization of the mission led to the area to be granted to Tiburcio Tapia as Rancho Cucamonga (Hoffman 1862). After the Mexican-American War, a patent was filed with the Public Lands Commission in 1852 and was patented to Leon Prudhomme in 1872 (Willey 1886). The Rancho was sold to John Rains in 1858, and then sold to Isaias Hellman in 1871 who, along with his partners, sub-divided the land (Hoover, et al. 1966). Over 8,000 acres was purchased by George Chaffey in 1882 and started the colony of Ontario in the same year, along with the creation of the San Antonio Water Company (Galvin Preservation Associates [GPA] 2007).

Upland was originally the northern part of the Ontario Colony and got the name from the local Upland Citrus Association (Upland Public Library 2021a). In 1887, the Atchison, Topeka, and Santa Fe railroad completed a connection to the Magnolia Tract in North Ontario, which spurred a growth boom in the area, outside of the Southern Pacific tracks located south in Ontario proper. While Ontario incorporated in 1891, it was only a half-square mile area south of the Southern Pacific tracks, though it was expanded north over 10 square miles in 1901 (Upland Public Library 2021b). That expansion spurred residents of North Ontario into incorporation, with the name of Upland, which occurred in 1906 and was expanded in 1935 to include the 1901 Ontario annexation (Upland Public Library 2021a).

Both cities owed their original growth to citrus, but beginning in the mid-1940s, the industry's success began to decline. With the land boom that occurred after World War II, growers saw a reason to stop their groves and began to sell their land to developers (GPA 2007). The residential growth of the city got further impetus from the development of the San Bernardino Freeway (I-10) in 1954. As one of the first freeways in the nation, it eased the commute to Los Angeles, and served as a major reason for the transition of Upland into a residential and commercial community.

Project Area History

The project area is located in central Upland, with the East Arrow Highway directly north, and the Atchison, Topeka and Santa Fe Railway (AT&SF) to the south. Prior to development, the project site was

a flat area, directly to the east of a perennial wash. Historic topographic maps from 1897 and 1903 show the area as undeveloped to the east of North Ontario. By 1933, the project area is still undeveloped; however, the Pacific Electric Railway runs directly along its northern edge, and by 1938, the area has been developed as an agricultural field west of an orchard. A lumber yard was built on the project area in 1956 and has continued to be used in that industry into the present.

3.0 METHODS

HELIX requested a records search of the project site and a half mile radius at the South Central Coastal Information Center (SCCIC) at the California State University, Fullerton on September 1, 2021. The SCCIC maintains records of previously documented archaeological resources and technical studies. The records search was conducted to identify previously recorded cultural resources and locations and citations for previous cultural resources studies. A review of the California Historical Resources and the state Office of Historic Preservation (OHP) historic properties directories, and Local Register, was also conducted. The records search maps are included as Confidential Appendix B to this report. Historic maps and aerial photographs were reviewed to assess the potential for historic archaeological resources to be present.

The Native American Heritage Commission (NAHC) was contacted on September 1, 2021 for a Sacred Lands File search and list of Native American contacts, which were received on October 5, 2021. Letters were sent on October 29, 2021 to the contacts listed by the NAHC. Native American correspondence is included as Confidential Appendix C to this report

4.0 RESULTS

4.1 RECORDS SEARCH

HELIX staff received the results of a record search of the California Historical Resources Information System (CHRIS) from the South Central Coast Information Center (SCCIC) on November 24, 2021, to identify previously documented archaeological resources within a 0.5-mile radius of the project site.

The search included previously recorded archaeological resources, as well as historic structures identified in the Built Environment Resource Directory (BERD) (within the project site and surrounding 0.5-mile area. A review of the California Historical Resources and the state Office of Historic Preservation (OHP) historic properties directories was also conducted.

4.1.1 Previously Recorded Cultural Resource Studies

The records search results identified 12 previous cultural resource studies within the record search limits (Table 1, *Previous Studies within a Half Mile of the Study Area*). None of the previous studies overlap with the project site. The studies are comprised of architectural historical evaluations, archaeological field studies, and literature searches.

Table 1
PREVIOUS STUDIES WITHIN A HALF MILE OF THE STUDY AREA

Report Number (SB-)	Year	Author	Report Title
SB-00379	1976	Harris, Ruth D.	Archaeological - Historical Resources Assessment of Proposed Gas Tax Project No. 3217 at the Intersection of San Bernardino Road and Arrow Highway at Ninth Street
SB-02940	1993	Archaeological Associates	Historical Property Survey Report for the Proposed Widening of Foothill Blvd., Between Grove Ave and Lion St., in the City of Rancho Cucamonga, San Bernardino County, California
SB-03567	2001	Jensen, Peter	Archaeological Inventory Survey of Sb54xc412 Cell Tower Site, Upland Memorial Park, City of Upland, Ca. 9pp
SB-04097	2003	Tanaguchi, Christeen	Records Search Results & Site Visit for Cingular Telecommunication Facility Sb 226-02 (Upland Memorial Park), 1100 E. Foothill Blvd, City of Upland, San Bernardino County, Ca. 8pp
SB-06666	2009	Encarnacion, Deirdre	Identification and Evaluation of Historic Properties: Northwest Recycled Water System Project, Cities of Rancho Cucamonga, Upland and Ontario, San Bernardino County, California.
SB-06667	2009	Encarnacion, Deirdre	Identification and Evaluation of Historic Properties: Northwest Recycled Water System Project, Cities of Rancho Cucamonga, Upland and Ontario, San Bernardino County, California.
SB-06669	2010	Sampson, Seth	Pearson Lab Road Grading Project, Kern and San Bernardino Counties, California NAWS Cultural Resource Number 2010-37
SB-07048	2012	Padon, Beth	Cultural Resource Assessment Study for Verizon "Hemlock" Site in Rancho Cucamonga, San Bernardino County, California
SB-07084	2010	Tang, Bai "Tom"	Preliminary Historical/Archaeological Resources Study, San Bernardino Line Positive Train Control Project, Southern California Regional Rail Authority, Counties of Los Angeles and San Bernardino.
SB-07194	2012	Puckett, Heather R.	Bowen, 997 East 8th Street, Upland, CA 91786.
SB-07708	2011	Applied Earthworks and Far Western Anthropological Research Group	Cultural Resource Constraints Analysis for Gas Hydrotesting at T-77 on Gas Transmission Line 300B.
SB-08257	2016	Tang, Bai	Due-Diligence Historical/Archaeological Resources Study Inland Empire Utilities Agency Recharge Basin Maintenance Plan Chino Basin Area, San Bernardino and Riverside Counties, California CRM TECH Contract No. 2989

* intersects with the project site.

4.1.2 Previously Recorded Cultural Resources

The SCCIC record search contained 106 previously recorded cultural resources within a half-mile radius of the project site (Table 2, Previously Recorded Resources Within Half Mile of the Study Area). None of these 106 resources are recorded within the project site. All but one of the resources are historic buildings, with the single outlier consisting of a prehistoric lithic scatter.

Table 2
PREVIOUSLY RECORDED RESOURCES WITHIN A HALF MILE OF THE STUDY AREA

Primary Number (P-36-##)	Trinomial (CA-LAN-#)	Age	Description	Recorder, Date
P-36-013928	-	Historic	Building	R. Hatheway, 1991; Laurie S. White, 1993
P-36-013945	-	Historic	Building	Laurie S. White, 1993
P-36-016424	-	Historic	Building	Merrill, 1987
P-36-016466	-	Historic	Building	Merrill, 1987
P-36-018150	-	Historic	Building	Merrill, 1987
P-36-018151	-	Historic	Building	Unknown, n.d.
P-36-018152	-	Historic	Building	Unknown, n.d.
P-36-018153	-	Historic	Building	Unknown, n.d.
P-36-018154	-	Historic	Building	Unknown, n.d.
P-36-018155	-	Historic	Building	Unknown, n.d.
P-36-018156	-	Historic	Building	Unknown, n.d.
P-36-018157	-	Historic	Building	Unknown, n.d.
P-36-018158	-	Historic	Building	Unknown, n.d.
P-36-018159	-	Historic	Building	Unknown, n.d.
P-36-018160	-	Historic	Building	Unknown, n.d.
P-36-018161	-	Historic	Building	Unknown, n.d.
P-36-018162	-	Historic	Building	Unknown, n.d.
P-36-018163	-	Historic	Building	Unknown, n.d.
P-36-018164	-	Historic	Building	Unknown, n.d.
P-36-018165	-	Historic	Building	Unknown, n.d.
P-36-018166	-	Historic	Building	Unknown, n.d.
P-36-018167	-	Historic	Building	Unknown, n.d.
P-36-018191	-	Historic	Structure	Unknown, n.d.
P-36-018192	-	Historic	Building	Unknown, 1993
P-36-018193	-	Historic	Building	Unknown, n.d.
P-36-018194	-	Historic	Building	Unknown, n.d.
P-36-018205	-	Historic	Building	Unknown, n.d.
P-36-018206	-	Historic	Building	Unknown, n.d.
P-36-018207	-	Historic	Building	Unknown, n.d.
P-36-018208	-	Historic	Building	Unknown, n.d.
P-36-018209	-	Historic	Building	Unknown, n.d.
P-36-018210	-	Historic	Building	Unknown, n.d.
P-36-018211	-	Historic	Building	Unknown, n.d.
P-36-018212	-	Historic	Building	Unknown, n.d.
P-36-018213	-	Historic	Building	Unknown, n.d.
P-36-018214	-	Historic	Building	Unknown, n.d.
P-36-018215	-	Historic	Building	Unknown, n.d.
P-36-018216	-	Historic	Building	Unknown, n.d.

Primary Number (P-36-##)	Trinomial (CA-LAN-#)	Age	Description	Recorder, Date
P-36-018217	-	Historic	Building	Unknown, n.d.
P-36-018218	-	Historic	Building	Unknown, n.d.
P-36-018219	-	Historic	Building	Unknown, n.d.
P-36-018220	-	Historic	Building	Unknown, n.d.
P-36-018229	-	Historic	Building	Unknown, n.d.
P-36-018230	-	Historic	Building	Unknown, n.d.
P-36-018231	-	Historic	Building	Unknown, n.d.
P-36-018232	-	Historic	Building	Unknown, n.d.
P-36-018233	-	Historic	Building	Unknown, n.d.
P-36-018234	-	Historic	Building	Unknown, n.d.
P-36-018235	-	Historic	Building	Unknown, n.d.
P-36-018236	-	Historic	Building	Unknown, n.d.
P-36-018237	-	Historic	Building	Unknown, n.d.
P-36-018238	-	Historic	Building	Unknown, n.d.
P-36-018239	-	Historic	Building	Unknown, n.d.
P-36-018412	-	Historic	Building	Unknown, n.d.
P-36-018413	-	Historic	Building	Unknown, n.d.
P-36-018414	-	Historic	Building	Unknown, n.d.
P-36-018415	-	Historic	Building	Unknown, n.d.
P-36-018416	-	Historic	Building	Unknown, n.d.
P-36-018417	-	Historic	Building	Unknown, n.d.
P-36-018418	-	Historic	Building	Unknown, n.d.
P-36-018419	-	Historic	Building	Unknown, n.d.
P-36-018420	-	Historic	Building	Unknown, n.d.
P-36-018421	-	Historic	Building	Unknown, n.d.
P-36-018422	-	Historic	Building	Unknown, n.d.
P-36-018423	-	Historic	Building	Unknown, n.d.
P-36-018424	-	Historic	Building	Unknown, n.d.
P-36-018425	-	Historic	Building	Unknown, n.d.
P-36-018426	-	Historic	Building	Unknown, n.d.
P-36-018427	-	Historic	Building	Unknown, n.d.
P-36-018428	-	Historic	Building	Unknown, n.d.
P-36-018429	-	Historic	Building	Unknown, n.d.
P-36-018430	-	Historic	Building	Unknown, n.d.
P-36-018431	-	Historic	Building	Unknown, n.d.
P-36-018432	-	Historic	Building	Unknown, n.d.
P-36-018433	-	Historic	Building	Unknown, n.d.
P-36-018434	-	Historic	Building	Unknown, n.d.
P-36-018435	-	Historic	Building	Unknown, n.d.
P-36-018436	-	Historic	Building	Unknown, n.d.
P-36-018437	-	Historic	Building	Unknown, n.d.
P-36-018438	-	Historic	Building	Unknown, n.d.
P-36-018439	-	Historic	Building	Unknown, n.d.
P-36-018440	-	Historic	Building	Unknown, n.d.
P-36-018441	-	Historic	Building	Unknown, n.d.
P-36-018442	-	Historic	Building	Unknown, n.d.
P-36-018443	-	Historic	Building	Unknown, n.d.
P-36-018444	-	Historic	Building	Unknown, n.d.
P-36-018445	-	Historic	Building	Unknown, n.d.
P-36-018446	-	Historic	Building	Unknown, n.d.

Primary Number (P-36-##)	Trinomial (CA-LAN-#)	Age	Description	Recorder, Date
P-36-018447	-	Historic	Building	Unknown, n.d.
P-36-018448	-	Historic	Building	Unknown, n.d.
P-36-018449	-	Historic	Building	Unknown, n.d.
P-36-018450	-	Historic	Building	Unknown, n.d.
P-36-018451	-	Historic	Building	Unknown, n.d.
P-36-018452	-	Historic	Building	Unknown, n.d.
P-36-018453	-	Historic	Building	Unknown, n.d.
P-36-018454	-	Historic	Building	Unknown, n.d.
P-36-018455	-	Historic	Building	Unknown, n.d.
P-36-018456	-	Historic	Building	Unknown, n.d.
P-36-018457	-	Historic	Building	Unknown, n.d.
P-36-018458	-	Historic	Building	Unknown, n.d.
P-36-018459	-	Historic	Building	Unknown, n.d.
P-36-018460	-	Historic	Building	Unknown, n.d.
P-36-018461	-	Historic	Building	Unknown, n.d.
P-36-020278	-	Historic	Building	Unknown, n.d.
P-36-020279	-	Historic	Building	Hatheway and Associates, 1991
P-36-060259	-	Prehistoric	Other	Laurie S. White, 1993

4.2 ARCHIVAL RESEARCH AND CONTACT PROGRAM

4.2.1 Other Archival Research

Various additional archival sources were also consulted, including historic topographic maps and aerial imagery. These include aerials from 1938, 1948, 1959, 1966, 1978, and 1980 (NETR Online 2021) and several historic USGS topographic maps, including the 1897 and 1903 Cucamonga (1:62,500), the 1933 Ontario (1:62,500), the 1942 Ontario and Vicinity (1:31,680), and the 1954, 1967, and 1973 Ontario (1:24,000) topographic maps. The purpose of this research was to identify historic structures and land use in the area.

No buildings appear in the project area on the 1897 or 1903 USGS Cucamonga quadrangle, but there is a road just to the north, and a wash is present directly adjacent and passing through the project area. By the 1933 USGS Ontario quadrangle, the only change is the presence of the Pacific Electric Rail Line, being present directly along the project area's northern boundary and the Arrow Highway a bit farther north; there is no change in the 1942 Ontario and Vicinity quadrangle. In the 1954 Ontario quadrangle, the new road is present to the east of the project area, and by 1967 buildings associated with the existing lumber yard are present in the project area on the Ontario quadrangle. Historic aerials show the same progress of development, beginning with agricultural fields in 1938 and 1948, though the lumber yard noted on the 1967 quadrangle is first visible on the 1959 aerial.

A search of the BERD identified 110 historical resources located within the half-mile search radius, many of them also identified in the SCCIC record search. Nine of these resources received a California Historical Resource Status Code of 6Y, determined ineligible for the National Register (NR) by consensus through Section 106 process – Not evaluated for California Register (CR) or local listing.
One hundred-one of these resources received a California Historical Resource Status Code of 7M, submitted to the California Office of Historic Preservation (OHP) but not evaluated – referred to

National Park Service. One hundred-one of these resources are located within the Pleasant View District, a City of Upland Historic District. The buildings located within the boundaries of the Rose Glen Residential Project are not included in the California Built Environment Resources Directory/State Historic Resources Inventory, nor are they included on a register or inventory of designated or eligible landmarks in the City of Upland.

4.2.2 Native American Contact Program

HELIX contacted the Native American Heritage Commission (NAHC) on September 1, 2021 for a Sacred Lands File search and list of Native American contacts for the project area. The NAHC indicated in a response dated October 5, 2021 that no known sacred lands or Native American cultural resources are within the project area, but that the area is sensitive for cultural resources. HELIX submitted outreach letters on October 29, 2021 to the Native American representatives and interested parties identified by the NAHC. Three responses have been received to date (Table 3, *Native American Contact Program Responses*). The Gabrieleno Band of Mission Indians–Kizh Nation responded on November 9, 2021. The Tribe did not identify any known tribal cultural resources or sacred lands within their response; however, the Tribe may wish to submit information regarding tribal resources during consultation with the lead agency. The Quechan Tribe of the Fort Yuma Reservation responded on November 3, 2021 that they had no comments for the proposed project and will defer to the Tribes local to the project area. If any additional responses are received, they will be forwarded to City staff. Native American correspondence is included as Appendix C (Confidential Appendices, bound separately).

Table 3
NATIVE AMERICAN CONTACT PROGRAM RESPONSES

Contact/Tribe	Response
Native American Heritage Commission	Responded on October 5, 2021 with the results of the Sacred Lands File. No tribal cultural resources or sacred lands were identified within the project area.
Gabrieleno Band of Mission Indians - Kizh Nation	Savanah Salas responded on November 9, 2021 to request lead agency information. The Tribe did not identify any known tribal cultural resources or sacred lands within their response. However, the Tribe may wish to submit information regarding tribal resources during consultation with the lead agency.
Morongo Band of Mission Indians	Bernadette Anne Brierty responded on December 27, 2021, stating that the proposed project is not located within the boundaries of the ancestral territory and traditional use area of the Cahuilla and Serrano people of the Morongo Band of Mission Indians.
Quechan Tribe of the Fort Yuma Reservation	Jill McCormick responded via email on November 3, 2021. The Tribe does not have any comments for the proposed project and will defer to the Tribes local to the project area.

5.0 SUMMARY AND MANAGEMENT RECOMMENDATIONS

A study was undertaken to identify cultural resources that are present in the Rose Glen Specific Plan Residential Project site and to determine the effects of the project on cultural resources. The project site is heavily developed with no ground visibility. As such, a pedestrian survey was not conducted for the proposed project.

A record search undertaken at the SCCIC did not identify and previously recorded cultural resources, within the project area. The results of the Sacred Lands File search identified no known tribal resources or sacred lands within the project vicinity. As recommended by the NAHC, HELIX contacted the 16 Native American representatives and interested parties identified by the NAHC (Appendix C). The outreach program resulted in the response of three tribal groups, Gabrieleno Band of Mission Indians - Kizh Nation, Morongo Band of Mission Indians, and Quechan Tribe of the Fort Yuma Reservation, none of which identified any known tribal cultural resources within the project site.

The review of historic maps and aerials illustrates minimal development near the project in the early twentieth century. However, the project is located near a wash that may have been used by prehistoric people. Development within the project vicinity began with the construction of the Pacific Electric Rail Line. While most of the land use surrounding the project area was used for agricultural purposed between 1938 and 1948, development within the project site first occurred between 1954 and 1967. As such, the entire project area has been disturbed by nineteenth and twentieth century agricultural activities, irrigation systems, dirt road formation, and transportation (railway) and utility (transmission and gas line) installation. Much of the Project area was cleared for these activities, in particular the agricultural pursuits, and the lumber yard present on the site from 1956.

5.1 MANAGEMENT RECOMMENDATIONS

Based on the results of the current study, no historical resources, as defined by CEQA, will be affected by the Rose Glen Project. However, while no historical resources or Native American tribal cultural resources have been identified within the project site, the project area may contain buried tribal and cultural resources which may be inadvertently discovered during project related construction. The existing setting of the project area is currently developed and covered by fill material which prevents the visibility of the original ground surface. As such, HELIX did not conduct a pedestrian survey of the site due to low visibility of the ground surface. However, the archival research suggests the project site may be sensitive for historic-era resources related to the Pacific Electric Rail Line, located along its northern boundary. Geologic indicators, such as the perennial wash in proximity to the project area, indicate a potential sensitivity to prehistoric cultural and tribal cultural resources. Additionally, the project site is located within alluvial soils, where there is a potential for encountering buried cultural and tribal cultural resources.

Due to this potential, it is recommended that an archaeological and Native American monitoring program be implemented if grading or other ground disturbing activities (i.e., trenching for utilities) are to occur below the current layer of fill. The monitoring program would include attendance by the archaeologist and Native American monitor at a preconstruction meeting with the grading contractor and the presence of archaeological and Native American monitors during initial ground disturbing activities on site. Both archaeological and Native American monitors would have the authority to

temporarily halt or redirect grading and other ground-disturbing activity in the event that cultural resources are encountered. If significant cultural material is encountered, the project archaeologist will coordinate with the monitoring tribes, the applicant, and City staff to develop and implement appropriate mitigation measures.

In the event that human remains are discovered, the County Coroner shall be contacted. If the remains are determined to be of Native American origin, the Most Likely Descendant, as identified by the NAHC, shall be contacted in order to determine proper treatment and disposition of the remains. All requirements of Health & Safety Code §7050.5 and PRC §5097.98 shall be followed.

Should the project limits change to incorporate new areas of proposed disturbance, archaeological survey of these areas will be required.

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Appendix A

Resumes of Key Personnel

Mary Robbins-Wade, RPA

Cultural Resources Group Manager

Summary of Qualifications

Ms. Robbins-Wade has 41 years of extensive experience in both archaeological research and general environmental studies. She oversees the management of all archaeological, historic, and interpretive projects; prepares and administers budgets and contracts; designs research programs; supervises personnel; and writes reports. Ms. Robbins-Wade has managed or participated in hundreds of projects under the California Environmental Quality Act (CEQA), as well as numerous archaeological studies under various federal jurisdictions, addressing Section 106 compliance and National Environmental Policy Act (NEPA) issues. She has excellent relationships with local Native American communities and the Native American Heritage Commission (NAHC), as well as has supported a number of local agency clients with Native American consultation under State Bill 18 and assistance with notification and Native American outreach for Assembly Bill 52 consultation. Ms. Robbins-Wade is a Registered Professional Archaeologist (RPA) and meets the U.S. Secretary of the Interior's Professional Qualifications for prehistoric and historic archaeology.

Selected Project Experience

12 Oaks Winery Resort. Project Manager/ Principal Investigator for a cultural resources survey of approximately 650 acres for a proposed project in the County of Riverside. Oversaw background research, field survey, site record updates, Native American coordination, and report preparation. Met with Pechanga Cultural Resources staff to discuss Native American concerns. Worked with applicant and Pechanga to design the project to avoid impacts to cultural resources. Work performed for Standard Portfolio Temecula, LLC.

28th Street between Island Avenue and Clay Avenue Utilities Undergrounding Archaeological Monitoring. Project Manager/Principal Investigator for a utilities undergrounding project in a historic neighborhood of East San Diego. Responsible for project management; coordination of archaeological and Native American monitors; coordination with forensic anthropologist, Native American representative/Most Likely Descendent, and City staff regarding treatment of possible human remains; oversaw identification of artifacts and cultural features, report preparation, and resource documentation. Work performed for the City of San Diego.

Archaeological Testing F11 Project. Project Manager for a cultural resources study for a proposed mixed-use commercial and residential tower in downtown San Diego. Initial work included an archaeological records search and a historic study, including assessment of the potential for historic archaeological resources. Subsequent work included development and implementation of an archaeological testing plan, as well as construction monitoring and the assessment of historic archaeological resources encountered. Work performed for the Richman Group of Companies.

Education

Master of Arts, Anthropology, San Diego State University, California, 1990

Bachelor of Arts, Anthropology, University of California, Santa Barbara, 1981

Registrations/ Certifications

Caltrans, Professionally Qualified Staff-Equivalent Principal Investigator for prehistoric archaeology, , Bureau of Land Management Statewide Cultural Resource Use Permit (California), permit #CA-18-35, , Register of Professional Archaeologists #10294, 1991

County of San Diego, Approved CEQA Consultant for Archaeological Resources, 2007 , Orange County Approved Archaeologist, 2016

Blended Reverse Osmosis (RO) Line Project. Project Manager/ Principal Investigator for cultural resources monitoring during construction of a 24-inch recycled water pipeline in the City of Escondido. Oversaw monitoring program, including Worker Environmental Awareness Training; responsible for Native American outreach/coordination, coordination with City staff and construction crews, and general project management. Work performed for the City of Escondido.

Buena Sanitation District Green Oak Sewer Replacement Project. Project Manager/Principal Investigator for a cultural resources testing program in conjunction with a proposed sewer replacement project for the City of Vista. Oversaw background research, fieldwork, site record update, Native American coordination, and report preparation. Work performed for Harris & Associates, Inc., with the City of Vista as the lead agency.

Cactus II Feeder Transmission Pipeline IS/MND. Cultural Resources Task Lead for this project in the City of Moreno Valley. Eastern Municipal Water District proposed to construct approximately five miles of new 30-inch to 42 inch-diameter pipeline; the project would address existing system deficiencies within the City and provide supply for developing areas. Oversaw background research, field survey, and report preparation. Responsible for Native American outreach for cultural resources survey. Assisted District with Native American outreach and consultation under AB 52. Work performed under an as-needed contract for Eastern Municipal Water District.

Dale 2199C Pressure Zone Looping Pipeline Project. Cultural Resources Task Lead for this project in Moreno Valley. Eastern Municipal Water District proposed construction of a new pipeline to connect two existing pipelines in the District's 2199C Pressure Zone. The pipeline would consist of an 18-inch-diameter pipeline between Kitching Street and Alta Vista Drive that would connect to an existing 12-inch-diameter pipeline in the northern end of Kitching Street and to an existing 18-inch-diameter pipeline at the eastern end of Alta Vista Drive. The project will improve reliability and boost the Dale Pressure Zone's baseline pressure and fire flow availabilities. Four potential alignments were under consideration; three of these bisect undeveloped land to varying degrees, while the other is entirely situated within developed roadways. Oversaw background research and field survey. Responsible for Native American outreach for cultural resources survey and co-authored technical report. Work performed under an as-needed contract for Eastern Municipal Water District.

Downtown Riverside Metrolink Station Track & Platform Project. Cultural Resources Task Lead for this project involving changes to and expansion of the Downtown Riverside Metrolink Station. Overseeing records search and background information, archaeological survey, and report preparation. Responsible for coordination with Native American Heritage Commission, Riverside County Transportation Commission (RCTC), and Federal Transportation Authority (FTA) on Native American outreach. Work performed for Riverside County Transportation Commission as a subconsultant to HNTB Corporation.

Emergency Storage Pond Project. Project Manager/Principal Investigator for a cultural resources testing program in conjunction with the Escondido Recycled Water Distribution System - Phase 1. Two cultural resources sites that could not be avoided through project design were evaluated to assess site significance and significance of project impacts. Work included documentation of bedrock milling

features, mapping of features and surface artifacts, excavation of a series of shovel test pits at each site, cataloging and analysis of cultural material recovered, and report preparation. The project is located in an area that is sensitive to both the Kumeyaay and Luiseño people, requiring close coordination with Native American monitors from both groups. Work performed for the City of Escondido.

Escondido Brine Line Project. Project Manager/Principal Investigator for cultural resources monitoring during construction of approximately 2.3 miles of a 15-inch brine return pipeline in the City of Escondido. The project, which is part of the City's Agricultural Recycled Water and Potable Reuse Program, enables discharge of brine recovered from a reverse osmosis facility that is treating recycled water; it is one part of the larger proposed expansion of Escondido's recycled water distribution to serve eastern and northern agricultural land. The project is located in an area that is sensitive to both the Kumeyaay and Luiseño people, requiring close coordination with Native American monitors from both groups. Oversaw monitoring program, including Worker Environmental Awareness Training; responsible for Native American outreach/coordination, coordination with City staff and construction crews, and general project management. Work performed for the City of Escondido.

Hacienda del Mar EIR. Senior Archaeologist for a proposed commercial development project for a senior care facility in Del Mar. Assisted in the preparation of associated permit applications and an EIR. Oversaw background research, updated records search and Sacred Lands File search, monitoring of geotechnical testing, coordination with City staff on cultural resources issues, and preparation of updated report. Prior to coming to HELIX, served as Cultural Resources Task Lead for the cultural resources survey for the project, conducted as a subcontractor to HELIX. Work performed for Milan Capital Management, with the City of San Diego as the lead agency.

Lilac Hills Ranch. Project Manager/Principal Investigator of a cultural resources survey and testing program for an approximately 608-acre mixed-use development in the Valley Center area. Oversaw background research, field survey, testing, recording of archaeological sites and historic structures, and report preparation. Responsible for development of the research design and data recovery program, preparation of the preservation plan, and Native American outreach and coordination. The project also included recording historic structures, development of a research design and data recovery program for a significant archaeological site, and coordination with the Native American community and the client to develop a preservation plan for a significant cultural resource. The project changed over time, so additional survey areas were included, and a variety of off-site improvement alternatives were addressed. Work performed for Accretive Investments, Inc. with County of San Diego as the lead agency.

Moulton Niguel Water District Regional Lift Force Main Replacement. Cultural Resources Task Lead/Principal Investigator for the replacement of a regional lift station force main operated by Moulton Niguel Water District (MNWD). The project comprises an approximately 9,200 linear foot alignment within Laguna Niguel Regional Park in Orange County, in an area that is quite sensitive in terms of cultural resources. HELIX is supporting Tetra Tech throughout the preliminary design, environmental review (CEQA), and final design, including permitting with applicable state and federal regulatory agencies. The cultural resources survey will inform project design, in order to avoid or minimize potential impacts to cultural resources. Oversaw background research and constraints analysis, Native American

coordination, cultural resources survey, coordination with MNWD and Tetra Tech, and report preparation. Work performed for MNWD, as a subconsultant to Tetra Tech.

Murrieta Hot Springs Road Improvements Project. Principal Investigator/Cultural Resources Task Lead for cultural resources survey in support of an Initial Study/Mitigated Negative Declaration (IS/MND) for the widening of Murrieta Hot Springs Road in the City of Murrieta. The project would widen or restripe Murrieta Hot Springs Road between Winchester Road and Margarita Road from a 4-lane roadway to a six-lane roadway to improve traffic flow, as well as provide bike lanes in both directions along this segment. A new raised median, light poles, signage, stormwater catch basins, retaining walls, and sidewalks would also be provided on both sides of the roadway, where appropriate. The project area is in a location that is culturally sensitive to the Native American community. The cultural resources study included tribal outreach and coordination to address this cultural sensitivity.

Park Circle - Cultural Resources. Project Manager/Principal Investigator of a cultural resources survey and testing program for a proposed 65-acre residential development in the Valley Center area of San Diego County. The project is located along Moosa Creek, in an area that is culturally sensitive to the Luiseño people. Oversaw background research, historic study, field survey, testing, recording archaeological sites and historic structures, and report preparation. Responsible for Native American outreach and coordination. The cultural resources study included survey of the project area, testing of several archaeological sites, and outreach and coordination with the Native American community, as well as a historic study that addressed a mid-20th century dairy barn and a late 19th century vernacular farmhouse. Work performed for Touchstone Communities.

Peacock Hill Cultural Resources. Project Manager/Principal Investigator of a cultural resources study update for a residential development in Lakeside. Oversaw updated research, fieldwork, lab work, analysis by forensic anthropologists, report preparation, and Native American coordination. In the course of outreach and coordination with the Native American (Kumeyaay) community, possible human remains were identified, prompting additional fieldwork, as well as coordination with the Native American community and forensic anthropologists. Work performed for Peacock Hill, Inc.

Sky Canyon Sewer Environmental Consulting. Cultural Resources Task Lead for this project adjacent to the City of Murrieta in southwestern Riverside County. Eastern Municipal Water District (District) proposed to implement the Sky Canyon Sewer Main Extension Project to construct approximately 6,700 linear feet of new gravity-fed 36-inch-diameter sewer main to provide additional sewer capacity for planned development. The proposed 36-inch-diameter sewer main would extend the existing 36-inch-diameter French Valley Sewer at Winchester Road further downstream to Murrieta Hot Springs Road. Oversaw background research and field survey. Responsible for Native American outreach for cultural resources survey and co-authored technical report. Assisted District with Native American outreach and consultation under AB 52. Work performed under an as-needed contract for Eastern Municipal Water District.

Kassie Sugimoto, M.A.

Cultural Resources Project Manager I

HELIX Environmental Planning

Summary of Qualifications

Ms. Sugimoto has 10 years of professional experience in archaeology. She has worked in Southern California archaeology for 6 years, including work in historic archaeology, prehistoric archaeology, human osteology, and close coordination with Native American tribes. She has directed test and data recovery investigations, monitoring programs, and archaeological site surveys, and has prepared reports for various cultural resource management projects. She is well-versed in National Historic Preservation Act, National Environmental Policy Act (NEPA), and California Environmental Quality Act (CEQA) regulations and processes.

Selected Project Experience

Darco Project (TTM 31589) (2021). Archaeologist for cultural services provided in support of the Darco Residential Development Project, located in the City of Moreno Valley (City), Riverside County, California. HELIX was contracted by D.R. Horton to provide a Phase I archaeological study to meet the requirements of the City. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; a field survey of approximately 36 acres; and preparation of a cultural resources survey report detailing the methods and results of the study, as well as recommendations.

Morningstar Village (2021). Archaeologist for cultural services provided in support of the Morningstar Village Project located in the community of French Valley, unincorporated Riverside County, California. HELIX was contracted by Morningstar Village LLC to provide a cultural resource study in support of a 404 Pre-Construction Notification application for a Nationwide Permits; the report addressed both CEQA and Section 106 of the National Historic Preservation Act to support agency permitting. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; a field survey of the United States Army Corp of Engineers (USACE) permit area; and preparation of a cultural resources report detailing the methods and results of the study, as well as recommendations. An additional letter report was prepared for the USACE to summarize the cultural resources within the USACE permitting area, and additional tribal outreach was conducted at the request of USACE.

Education

Master of Arts, Anthropology, North Carolina State University, Raleigh, 2015

Bachelor of Arts, Archaeology, California State University Dominguez Hills, 2013

Professional Affiliations

Member, Project Management Institute (PMI), 2019-Present

Member, Society for American Archaeology, 2013-Present

Kassie Sugimoto, M.A.

Cultural Resources Project Manager I

Oak Valley Town Center (2021). Archaeologist for cultural services provided in support of the Oak Valley Town Center Project located in the City of Calimesa (City), Riverside County (County), California. HELIX was contracted by Oak Valley Development Company to provide a Phase 1 cultural resources study to the standards of the City of Calimesa; the report will address both CEQA and Section 106 of the National Historic Preservation Act, to support agency permitting. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; conduct a field survey of approximately 244 acres; and prepare a cultural resources report detailing the methods and results of the study, as well as recommendations.

Sandalwood Commercial Development Project (2021). Archaeologist for cultural services provided in support of the Sandalwood Commercial Development Project, located in the City of Calimesa (City), Riverside County, California. HELIX was contracted by J&T Investments to provide a Phase I archaeological study to meet the requirements of the City. The study included a records search from the Eastern Information Center; a Sacred Lands File search through the NAHC; tribal outreach with the local Native American community, as identified by the NAHC; review historic maps and aerial photographs of the project area; conduct a field survey of approximately 10 acres; and prepare a cultural resources survey report detailing the methods and results of the study, as well as recommendations.

Sky Canyon Sewer Main Extension (2021). Archaeologist for cultural services provided in support of the Sky Canyon Sewer Main Extension Project located in the city of Murrieta, Riverside County, California. A Cultural Resources Monitoring Plan (CRMP) was developed in consultation with the consulting Tribe for the construction of approximately 6,700 linear feet of new gravity-fed 36 inch diameter sewer main proposed by the lead agency, the Eastern Municipal Water District. HELIX provided cultural services, including Native American Outreach and Coordination, development of a CRMP, Cultural Resources Monitoring, and a letter report upon completion of the archaeological monitoring program.

McCanna Hills Addendum to an Environmental Impact Report, Riverside County, California. Archaeologist for preparation of an addendum to EIR319 previously prepared for the McCanna Ranch Specific Plan near Lake Perris in western Riverside County.

Archaeological Studies for a Riverside County Parcel (APN 436-360-009), Riverside County, California. Project Manager and Project Archaeologist for execution and management of the project contract with the client, conducted field and archival research, prepared technical documents for the City of San Jacinto. Work performed for Panorama Properties, Inc.

Lincoln Van Buren Project, Riverside, California. Archaeologist for Phase I studies for the development of a gas station. Field archaeologist for archaeological survey. Work performed for Psomas.

University of California Riverside (UCR), Riverside, California. Archaeologist for Phase I studies for as needed contract. Field archaeologist for archaeological and historic surveys. Work performed for Psomas.

Cultural Resources Studies for the City of San Jacinto, San Jacinto, California. Project Manager and Project Archaeologist. Executed and managed the project's contract with the client, conducted field and archival research, prepared technical documents for the City for Assessor Parcel Numbers 439-112-032, 033, 034, 036, 003, 004, 007, 008, and 009. Work performed for Mark Development.

Trevor Gittelhough, RPA

Cultural Resources Assistant Project Manager

HELIX Environmental Planning

Summary of Qualifications

Trevor H. Gittelhough is an archaeological assistant project manager, specializing in underwater cultural resources, with over a decade of experience in archaeology, including both cultural resources management and academic projects. This experience includes site monitoring; surveys and excavations; laboratory sorting, cataloging, and analysis; and conservation. He has conducted environmental, paleontological, and cultural resources work throughout California, Nevada, Oregon, and Florida in support of compliance with California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA) and Sections 106 and 110 of the National Historic Preservation Act (NHPA) for public and private sector clients including a range of local, state, and federal agencies such as Southern California Edison, the United States Navy and Air Force, Caltrans, and FEMA.

He has experience in team management in the terrestrial and underwater archaeological management sectors, with expertise in implementation of mitigation and monitoring projects, report production, and coordination with Indigenous groups. Underwater and Indigenous archaeology are Mr. Gittelhough's specialties, which are enhanced by his skill and experience in sailing, diving, and prehistoric technology construction. His research interests include maritime technologies and practices, settlement patterns, trade and exchange, colonial interactions, prehistoric technologies, and anthropological/ archaeological theory. In addition, he has expertise in illustration of artifacts, stratigraphic and excavation unit profiles, site maps, GIS, remote sensing, and underwater excavation and mapping techniques.

Mr. Gittelhough's technical skills include terrestrial and submerged archaeological survey, excavation, and site testing. He has authored numerous site records and technical reports detailing the results of cultural resources work, as well as academic articles. He has also had thorough training in artifact analysis and specializes in lithic analysis and maritime conservation. His academic background includes advanced training in conservation and underwater archaeology. He has extensive training at the graduate level and earned his M.A. from East Carolina University. Mr. Gittelhough is Registered Professional Archaeologist, a member of the Society for American Archaeology (SAA), a member of the Society for Historical Archaeology (SHA), and a member of the Society for California Archaeology (SCA).

Selected Project Experience

Bouquet Canyon Road Project, Los Angeles County, CA (2021). Cultural Resource Specialist serving as lead archaeological monitor and technical report writer for this project in the City of Santa Clarita. This work included monitoring all ground-disturbing

Education

Master of Arts, Maritime Studies, East Carolina University, 2019

Bachelor of Arts, Archaeology, University of California, Santa Barbara, 2011

Registrations/ Certifications

Register of Professional Archaeologists, 2018

HAZWOPER Certification; 2018 – 2021

ESRI GIS Certification
AAUS Scientific Diver
Red Cross First AID
Red Cross CPR DAN
Divers First Aid

Professional Affiliations

Society for American Archaeology
Society for Historical Archaeology
Society for California Archaeology

activities associated with geotechnical studies, such as drilling and trenching. Monitoring was also undertaken during ground penetrating radar studies of portions of the project area.

California Crossings, Attisha Trust Parcel, San Diego County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of biological mitigation measures (burrowing owl habitat creation) for the proposed Project in the County of San Diego. Prepared an archaeological resources assessment in compliance with state and federal regulations. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical report.

Enchanted Hills Park Project, Perris, Riverside County, CA (2021). Cultural Resource Specialist for a monitoring program during initial sitework for this project in the City of Perris, in Riverside County. Prepared monitoring letter report.

Mission Basin Groundwater Purification Facility Well Expansion and Brine Minimization Project, Oceanside, San Diego County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the City of Oceanside, in northern San Diego County. Prepared a monitoring results memo for monitoring of geotechnical investigations and assisted with preparation of the cultural resources technical report in compliance with state and federal regulations. Scope included a cultural resources records search, preparation of a letter report/memo, and assistance with the technical report.

Oak Shores/Lake Morena Views MWC Consolidation Project, San Diego County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of the proposed Project in eastern San Diego County. Assisted with preparation of a cultural resources technical report in compliance with state and federal regulations, as well as State Water Resources Control Board. Scope included a cultural resources records search, review of historic maps and aerials, and assistance with preparation of a technical report.

Archaeological Monitoring for the P-586 Missile Assembly Building - San Nicolas Island, Ventura County, CA (2021). Cultural Resource Specialist serving as archaeological monitor and technical report writer. This work included monitoring all ground-disturbing activities, including grubbing, grading, and trenching. Monitoring included close involvement with United States Navy personal and Tribal Members and Observers.

Shady View Residential Project Environmental Impact Report, Chino Hills, San Bernardino County, CA (2021). Cultural Resource Specialist for a cultural resources study in support of the proposed Project in the City of Chino Hills in San Bernardino County. Assisted in the preparation of the technical report in compliance with state and federal regulations. Project scope included a cultural resources records search, review of historic maps and aerials, field survey, and preparation of a technical report.

Trevor Gittelhough, RPA

Cultural Resources Assistant Project Manager

Previous Project Experience

Los Angeles County Natural History Museum Center for History and Cultural Project, Los Angeles County, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared an archaeological and tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

Environmental Services Support for the Villages at The Alhambra Project, Los Angeles County, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared an archaeological and tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

Tierra Crossing Tribal Cultural Resource and Archaeological Assessment, Los Angeles, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared an archaeological and tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

Tribal Cultural Resources Assessment for the 17346 Sunset Project, Los Angeles, CA. Assistant Project Manager for a cultural resources study in support of the proposed Project in the downtown area of the City Los Angeles. Prepared a tribal cultural resources assessment in compliance with CEQA, specifically Assembly Bill 52. Scope included a cultural resources records search, review of historic maps and aerials, and preparation of a technical study for submittal to the Department of City Planning.

Rose Glen Specific Plan Residential Project

Historic Resources Evaluation Report

June 2021 | 03669.00003.001

Prepared for:

Century Communities
4695 MacArthur Court, Suite 300
Newport Beach, CA 92660

Prepared by:

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

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National Archaeological Database Information

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Client/Project:	Century Communities / Rose Glen Residential Project
Report Date:	June 2022
Report Title:	Historic Resources Evaluation Report, 1400 East Arrow Highway, City of Upland, San Bernardino County, California.
Submitted to:	City of Upland
Type of Study:	Intensive-Level Historic Resources Evaluation
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TABLE OF CONTENTS

Section			Page
EXECUTIVE SUMMARY			ES-1
1.0	INTRODUCTION		1
	1.1	Project Location	1
	1.2	Project Description	1
2.0	REGULATORY FRAMEWORK		2
	2.1	Federal	2
		2.1.1 National Register of Historic Places	2
		2.1.2 Secretary of the Interior's Standards for Rehabilitation	3
	2.2	State	5
		2.2.1 California Register of Historical Resources	5
		2.2.2 California Environmental Quality Act	6
	2.3	Local	7
		2.3.1 City of Upland General Plan	7
		2.3.2 City of Upland Municipal Code	11
3.0	ARCHIVAL RESEARCH METHODS AND RESULTS		12
	3.1	Records Search	12
	3.2	Previous Historic Resource Studies and Evaluations	16
	3.3	Field Survey	17
	3.4	Archival Research	17
	3.5	Project Personnel	18
4.0	HISTORIC SETTING AND CONTEXT		18
	4.1	Early Settlement and Development in Upland	19
5.0	ARCHITECTURAL DESCRIPTION		20
6.0	EVALUATION		28
	6.1	Significance Criteria A/1/C	28
	6.2	Significance Criteria B/2/C	28
	6.3	Significance Criteria C/3/A/D	29
	6.4	Significance Criteria D/4	29
	6.5	Significance Criterion B	30
	6.6	Significance Criterion E	30
	6.7	Significance Criterion F	30
	6.8	Significance Criterion G	30
7.0	CONCLUSION		31
8.0	REFERENCES		32

TABLE OF CONTENTS

LIST OF APPENDICES

A Department of Parks and Recreation Series 523 Forms
B Resumes of Key Personnel

LIST OF FIGURES

No.	Title	On or Follows Page
1	Regional Location	2
2	USGS Topography	2
3	Aerial Photograph	2
4	Site Plan	2

LIST OF TABLES

No.	Title	Page
1	Previous Studies within a Half-mile of the Study Area	12
2	Previously Recorded Resources within a Half-mile of the Study Area	13

ACRONYMS AND ABBREVIATIONS

APN	Assessor's Parcel Number
BERD	Built Environment Resources Directory
BMPs	best management practices
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CRHR	California Register of Historical Resources
DPR	Department of Parks and Recreation
HELIX	HELIX Environmental Planning, Inc.
HRER	Historic Resource Evaluation Report
NHPA	National Historic Preservation Act
NPS	National Park Service
NRHP	National Register of Historic Places
PRC	Public Resources Code
SCCIC	South Central Coastal Information Center
USGS	U.S. Geological Survey

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EXECUTIVE SUMMARY

Purpose and Scope

HELIX Environmental Planning, Inc. (HELIX) was retained by Century Communities (Client) to provide historic resource consulting services in support of the Rose Glen Residential Project (project) in the City of Upland, San Bernardino County, California. Located in southeast Upland, north of Interstate 10, the subject property occupies the parcel at 1400 East Arrow Highway (Assessor's Parcel Number [APN] 1046-481-14-0000). The property consists of a lumber yard and warehouse constructed in 1956. The proposed project would demolish the structures on the subject property and replace them with 65 two-story single family detached residential dwelling units, 120 parking spaces, in individual garages, and 42 guest spaces, for a total of 162 parking spaces. The dwellings, which will be designed in the Spanish/Santa Barbara architectural style, will range from 1,544 to 1,5447 square feet and extend to a maximum height of 40 feet. Open space areas would include 9,400 square feet of common open space and 20,600 square feet of private open space for a total of 30,000 square feet.

The purpose of this report is to provide the substantial evidence necessary to determine whether the subject property meets federal, state, or local eligibility criteria and therefore qualifies as a historical resource pursuant to the California Environmental Quality Act (CEQA).

This intensive-level historic resource evaluation report (HRER) relied on literature review, archival research, a site inspection, and evaluation of the property in accordance with applicable eligibility criteria. The property was also recorded on California Department of Parks and Recreation (DPR) Series 523 forms.

All activities were conducted in accordance with the requirements of the Public Resources Code (PRC) and CEQA, as well as applicable best practices and regulations. The City of Upland is the lead agency under CEQA.

Dates of Investigation

HELIX staff requested a record search of the California Historical Resources Information System (CHRIS) at the South Central Coastal Information Center (SCCIC) on September 1, 2021. The results of the SCCIC record search were completed on November 24, 2021. On September 28, 2021, HELIX Senior Architectural Historian Debi Howell-Ardila, MHP, conducted a site visit. Field investigation consisted of examination and photography of the exterior of the subject property within the lumber yard complex. Field notes included resource descriptions, current conditions, alterations/integrity, and character-defining features. Ms. Howell-Ardila and Senior Architectural Historian, Ginger Weatherford, MPS, served as principal investigators and co-authors of this study. Ms. Howell-Ardila and Ms. Weatherford meet and exceed the Secretary of the Interior's Professional Qualification Standards for architectural history, as codified in 36 CFR Part 61. All evaluation results are documented in this report; the compiled DPR set follows this report in Appendix A, and key staff resumes follow as Appendix B.

Summary of Findings

As a result of this intensive-level evaluation, the property at 1400 East Arrow Highway does not appear eligible for federal, state, or local listing. In addition, it is not included on the State Built Environment Resources Directory (BERD) or the City's register of designated properties; it is also not a contributor to one of the City's designated historic districts. Therefore, the property does not qualify as a historical resource under CEQA.

1.0 INTRODUCTION

HELIX Environmental Planning, Inc. (HELIX) was retained by Century Communities (Client) to provide historic resource consulting services in support of the Rose Glen Residential Project (project) in the City of Upland, San Bernardino County, California. Located in southeast Upland at the intersection of East Arrow Highway and Olivewood Drive (Assessor's Parcel Number [APN] 1046-481-14-0000), the project site operated as a lumber yard from the mid twentieth century through present-day. The proposed project would demolish and replace a series of extant warehouses, associated structures, and hardscaping currently occupying the 4.9-acre parcel.

The purpose of this report is to provide the substantial evidence necessary to determine whether any of the of-age components within the project area, in whole or in part, meet federal, state, or local eligibility criteria as a historic landmark or historic district and therefore qualify as a historical resource pursuant to the California Environmental Quality Act (CEQA). This intensive-level historic resource evaluation report (HRER) assesses the subject property, which includes buildings, structures, and features, in accordance with the criteria of the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), and the City of Upland (City) Municipal Code.

All activities were conducted in accordance with the requirements of the Public Resources Code (PRC) and CEQA, as well as applicable best practices and regulations. The City of Upland is the lead agency under CEQA.

1.1 PROJECT LOCATION

The project is located in the City of Upland in San Bernardino County (Figure 1, *Regional Location*). The project is located 2.43 miles south of Interstate 210 (I-210, Foothill Freeway) and 1.04 miles north of I-10 (San Bernardino Freeway) within an unsectioned portion of Township 1 South, Range 7 West, on the U.S. Geological Survey (USGS) 7.5' Ontario quadrangle (Figure 2, *USGS Topography*). The project site is bordered by East Arrow Highway to the north, residential properties and Olivewood Drive to the east, a commercial property to the west, and residential properties to the south (Figure 3, *Aerial Photograph*).

1.2 PROJECT DESCRIPTION

The project proposes to demolish the extant structures on the subject property and replace them with 64 two-story single family detached residential homes (Figure 4, *Site Plan*). The homes, which will be designed in the Spanish/Santa Barbara architectural style, will range from 1,544 to 1,547 square feet, and extend to a maximum height of 40 feet. Additional project features 8,904 square feet of common open space that would support open lawn play areas, tot lot, picnic areas and benches, and additional smaller landscaped common open space areas. Parking would be accommodated through the provision of private spaces in the attached two-car garages (for a total of 128 spaces) and an additional 47 guest spaces that would be distributed through the project site. The existing ten-foot block wall that separates the project site from the residential land uses to the east would remain and be painted. Additionally, a minimum 6-foot-high sound wall is proposed along the westerly side of the project, and a new wall would be erected along the project's western and southern project boundary.

Site access would be via a gated pass-through entry lane for residences with a separate lane for guests along Arrow Highway, with a secondary gated emergency-only access provided along North 14th Avenue.

A network of internal private drives with 24-foot right of way would provide access to the individual homes. Internal drives would be privately owned and maintained. Pedestrian connectivity is a major goal within the project, and pedestrian connections are provided through sidewalks on both sides of all streets and within the recreation areas.

Utility infrastructure improvements and connections would also occur to accommodate site development. An existing six-inch water line on site would be removed and realigned with an 8-inch water line lateral connection to East Arrow Highway and reducing connection to North 14th Avenue. If fire flow requirements are not met, a secondary lateral connection to the existing 8-inch water line in the adjacent property may be needed to complete the internal loop system. Wastewater discharges from the site would occur through internal sewer mains connecting to an existing 8-inch sewer line in North 14th Avenue. An existing 8-inch sewer line would be abandoned and a new sewer line 8-inch sewer line would be rerouted through the site. The project would decrease the area of impervious surfaces in relation to the existing site conditions and would incorporate Best Management Practices (BMPs) for the collection and treatment of storm water as part of an overall low-impact development concept. The on-site storm system would convey runoff through the street curbs and catch basins to a 7,453-square foot underground vault system to infiltrate on site. Any high flows would be conveyed through a new off-site proposed system from the site through North 14th Avenue and 9th Street and connect to an existing San Bernardino County Flood Control District structure at Bodenhamer Street. Additionally, the existing overhead electrical lines that traverse the property would be undergrounded, and other local connections would occur to municipal infrastructure.

In all, 5,000 square feet of structures would be demolished along with 213,444 square feet of asphalt that would be hauled from the site. In addition, 2,727 cubic yards of imported soil would be hauled to the site.

To accommodate the residences, the project would require a General Plan land use amendment and a zone change from the current Light Industrial/Business Park designation and Light Industrial Zoning to Specific Plan.

2.0 REGULATORY FRAMEWORK

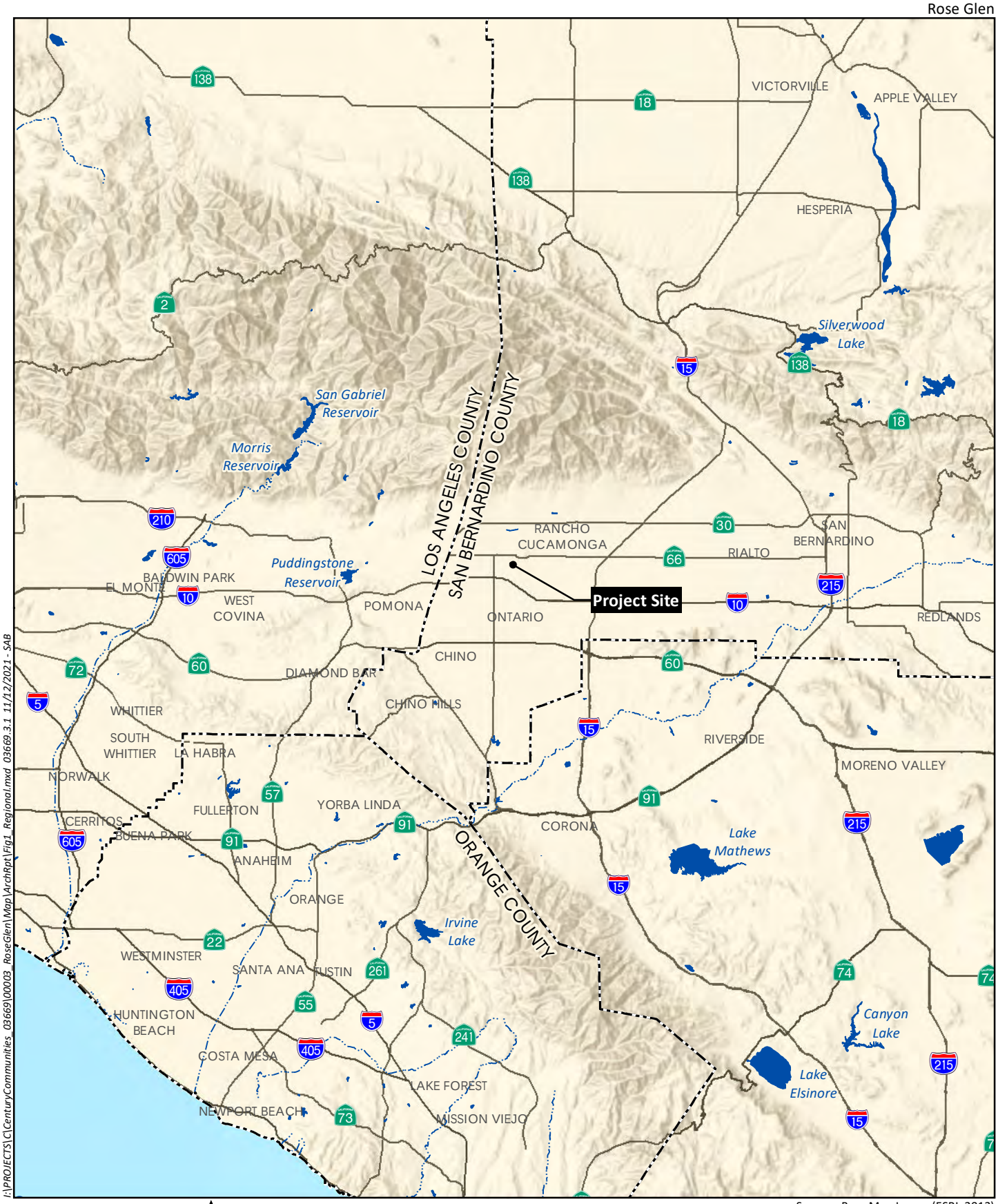
This section describes the applicable regulatory framework considered in this study.

2.1 FEDERAL

2.1.1 National Register of Historic Places

The National Register of Historic Places was established by the National Historic Preservation Act (NHPA) of 1966 as "an authoritative guide to be used by Federal, State, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment" (36 CFR [Code of Federal Regulations] 60.2). The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. A property is eligible for the NRHP if it:

Criterion A Is associated with events that have made a significant contribution to the broad patterns of our history; or



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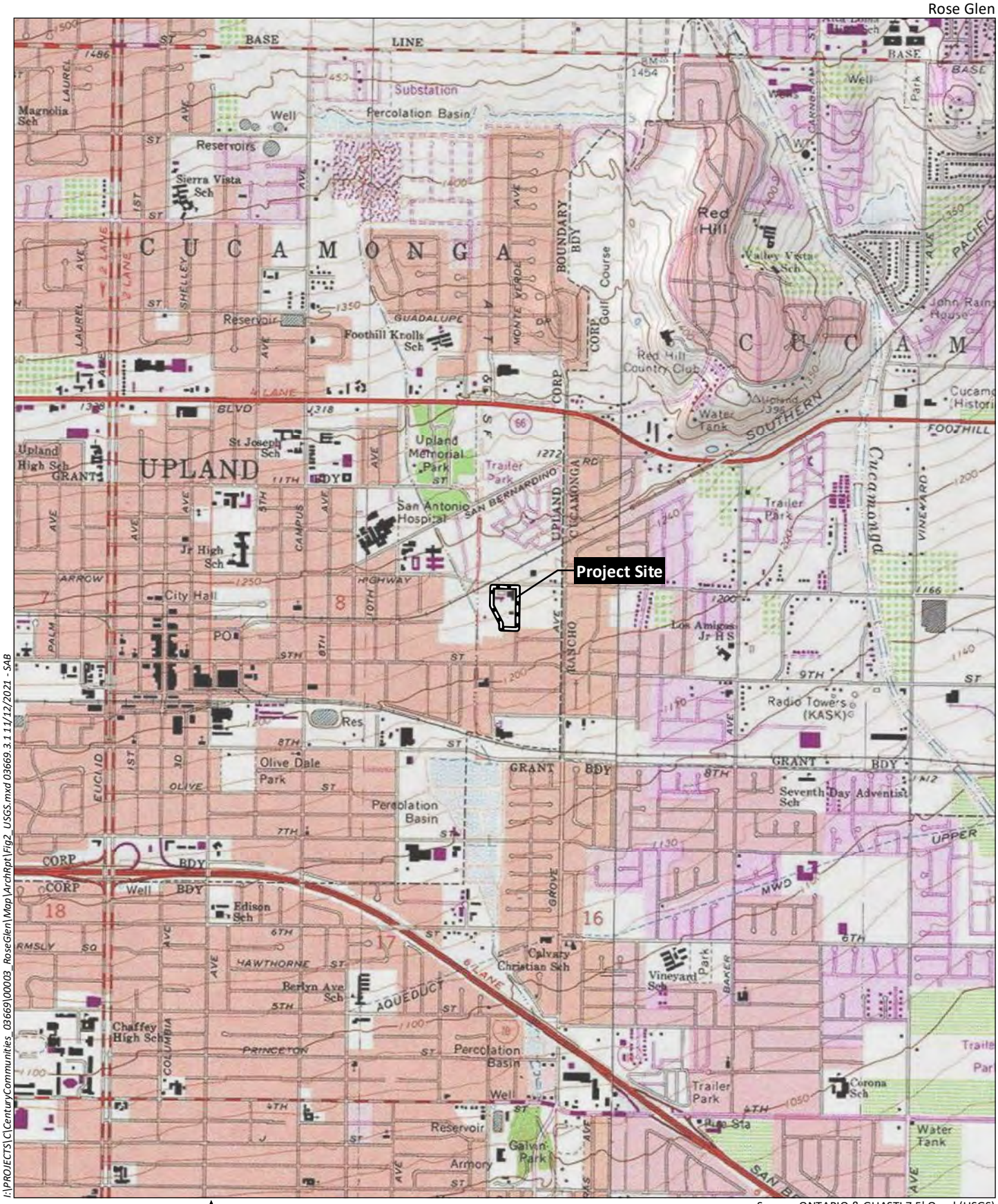
HELIX Environmental Planning

Regional Location

Figure 1



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0 2,000 Feet

Source: ONTARIO & GUASTI 7.5' Quad (USGS)

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USGS Topography

Figure 2

Source: Aerial (San Bernardino County, 2020)

HELIX Environmental Planning

Aerial Photograph of Project Vicinity

Figure 3

Source: Hunsaker 2021

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HELIX Environmental Planning

Site Plan

Figure 4

Criterion B Is associated with the lives of persons significant in our past; or

Criterion C Embodies the distinctive characteristics of a type, period, or method of installation, or represents the work of a master, possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; or

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

In addition to meeting these criteria, a property must retain historic integrity, which is defined in National Register Bulletin 15 as the "ability of a property to convey its significance" (National Park Service 1990). In order to assess integrity, the National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity.

To retain integrity, a property must possess several, if not all, of these seven qualities, which are defined in the following manner in National Register Bulletin 15:

1. **Location.** The place where the historic property was constructed or the place where the historic event occurred.

2. **Design.** The combination of elements that create the form, plan, space, structure, and style of a property.

3. **Setting.** The physical environment of a historic property.

4. **Materials.** The physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.

5. **Workmanship.** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.

6. **Feeling.** A property's expression of the aesthetic or historic sense of a particular period of time.

7. **Association.** The direct link between an important historic event or person and a historic property.

Some aspects of integrity may be accorded more weight than others, depending on the type of resource being evaluated and the applicable eligibility criteria. Integrity can be assessed only after it has been concluded that a resource is significant.

2.1.2 Secretary of the Interior's Standards for Rehabilitation

In accordance with the National Park Service and CEQA Guidelines, projects that comply with the *Secretary's Standards for the Treatment of Historic Properties* and *Secretary's Standards for Rehabilitation* (*Secretary's Standards*) are projects that retain the historic integrity of the resource. According to CEQA Guidelines, a project that complies with the *Secretary's Standards* is generally considered to be a project that will not cause a significant adverse impact to a historical resource.

The goal of the *Secretary's Standards* is to outline treatment approaches that allow for the retention of and/or sensitive changes to the distinctive materials and features that lend a historical resource its significance. The *Secretary's Standards* and Guidelines offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations. These standards also provide guidance on new construction adjacent to historic districts and properties, in order to ensure that there are no indirect adverse impacts to historic properties.

Rehabilitation is the most flexible treatment approach of the *Secretary's Standards*. The ten *Secretary's Standards for Rehabilitation* are:

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.

4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.

5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.

6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires the replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.

8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

The *Secretary's Standards and Guidelines* offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations. The *Secretary's Standards for Rehabilitation* also provide guidance on new construction adjacent to historic districts and properties, in order to ensure that there are no adverse indirect impacts to integrity as a result of a change in setting. Applying the *Secretary's Standards* to new construction adjacent to historic resources helps ensure avoidance of indirect impacts and retention of the setting and feeling of the historic resource and its surrounding environment.

Secretary's Standards compliance begins with the identification and documentation of the "character-defining," or historically significant, features of the historical resource. According to Preservation Brief 17, *Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving Their Character*, there is a three-step process to identifying character-defining features (Nelson 1982). Step 1 involves assessing the physical aspects of the building exterior as a whole, including its setting, shape and massing, orientation, roof and roof features, projections, and openings. Step 2 looks at the building more closely—at materials, trim, secondary features, and craftsmanship. Step 3 encompasses the interior, including individual spaces, relations, or sequences of spaces (floor plan), surface finishes and materials, exposed structure, and interior features and details. Alterations and replacement of character-defining features over time can impair a historic property's integrity and result in a loss of historic status. Therefore, to ensure that a historic property remains eligible after the implementation of projects, character-defining features should be identified and preserved.

2.2 STATE

The policies of the NHPA are implemented at the state level by the California Office of Historic Preservation, a division of the California Department of Parks and Recreation. The Office of Historic Preservation is also tasked with carrying out the duties described in the Public Resources Code and maintaining the California Historic Resources Inventory and CRHR. The state-level regulatory framework also includes CEQA, which requires the identification and mitigation of substantial adverse impacts that may affect the significance of eligible historical and archeological resources.

2.2.1 California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Sections 21083.2 and 21084.1). Certain properties, including those listed in or formally determined eligible for listing on the NRHP and California Historical Landmarks, numbered 770 and higher, are automatically included on the CRHR.

According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

Criterion 1: It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

Criterion 2: It is associated with the lives of persons important in our past;

Criterion 3: It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values;

Criterion 4: Has yielded, or may be likely to yield, information important in prehistory or history.

Properties that do not retain sufficient integrity for NRHP listing can still qualify for listing in the CRHR. Historical resources eligible for listing in the California Register must meet one of the criteria of significance described above and retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance.

2.2.2 California Environmental Quality Act

CEQA requires a lead agency to analyze whether historic and/or archaeological resources may be adversely impacted by a proposed project. Under CEQA, a "project that may cause a substantial adverse change in the significance of a historic resource is a project that may have a significant effect on the environment" (PRC Section 21084.1). Answering this question is a two-part process: first, the determination must be made as to whether the proposed project involves cultural resources. Second, if cultural resources are present, the proposed project must be analyzed for a potential "substantial adverse change in the significance" of the resource.

According to CEQA Guidelines Section 15064.5, historic resources are:

1. A resource listed in, or formally determined eligible for listing in, the California Register of Historical Resources (PRC 5024.1, Title 14 CCR, Section 4850 et seq);

2. A resource included in a local register of historical resources, as defined in PRC Section 5020.1(k), or identified as significant in a historic resources survey meeting the requirements of PRC Section 5024.1(g);

3. Any building, structure, object, site, or district that the lead agency determines eligible for national, state, or local landmark listing; generally, a resource shall be considered by the lead agency to be historically significant (and therefore a historic resource under CEQA) if the resource meets the criteria for listing on the California Register (as defined in PRC Section 5024.1, Title 14 CCR, Section 4852).

Resources nominated to the CRHR must retain enough of their historic character or appearance to convey the reasons for their significance. Resources whose historic integrity (as defined in the previous section) does not meet NRHP criteria may still be eligible for listing in the CRHR.

According to CEQA, the fact that a resource is not listed in or determined eligible for listing in the California Register or is not included in a local register or survey shall not preclude the lead agency from determining that the resource may be an historical resource (PRC Section 5024.1). Pursuant to CEQA, a project with an effect that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (CEQA Guidelines, Section 15064.5(b).

CEQA Guidelines specify that "substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired"

(CEQA Guidelines, Section 15064.5). Material impairment occurs when a project alters in an adverse manner or demolishes "those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion" or eligibility for inclusion in the NRHP, CRHR, or local register. In addition, pursuant to CEQA Guidelines Section 15126.2, the "direct and indirect significant effects of the project on the environment shall be clearly identified and described, giving due consideration to both the short-term and long-term effects."

2.3 LOCAL

2.3.1 City of Upland General Plan

Adopted in 2015, the City of Upland's General Plan Land Use Element establishes the development criteria and standards that help guide land use in the City. It describes the allowed densities, property types, configurations, and zoning for land uses throughout the City. Historic buildings, properties, districts, landscapes, and civic places are included in the General Plan Land Use Element. "The Land Use Element regulates the growth of the community in order to achieve a balanced and orderly pattern of development. It promotes a stable and livable environment by preserving existing residential neighborhoods, while ensuring compatibility in the development of new residential and non-residential land-uses for citizens to live and work locally and access commercial and recreational opportunities. Through a mix of well-designed and complementary land uses centered around public transit, the land use element promotes the viability of modes of travel other than the car, which is necessary for Upland to meet specific greenhouse gas emissions targets, and for ensuring a high quality of life for our existing and future citizens."[1]

Goal LU-2, A community with stable and livable residential neighborhoods, establishes the following policy to preserve and protect Upland's historic districts:

> Goal LU-2. A community with stable and livable residential neighborhoods.
>
> **LU-2.2: Historic Residential Districts**. Ensure the protection of Upland's nine designated historic residential districts through active maintenance and upkeep of historic homes, as well as adequate buffers and transitions to adjacent neighborhoods.

Goal LU-3, A community with high-quality non-residential uses sufficient to serve the shopping, employment, and cultural needs of Upland residents and the region, establishes the following policy to encourage adaptive reuse of historic buildings:

> Goal LU-3. A community with high-quality non-residential uses sufficient to serve the shopping, employment, and cultural needs of Upland residents and the region.
>
> **LU-3.6: Adaptive Reuse**. Encourage the adaptive reuse of historic buildings in non-residential land use designations and zones as an alternative to demolition.

Adopted in 2015, the City of Upland's General Plan Community Character and Urban Design Element "preserves and builds upon Upland's "sense of place" and unique identity. This element influences the future physical form of the community by guiding the desired quality and character of future

[1] https://www.uplandca.gov/uploads/ftp/city_departments/development_services/planning/general_plan_map/pdfs/01_Land%20Use%20Element%20-%20revised%20LU%20map.pdf

development, and by protecting important aspects of the natural and built environment that define the image and spirit of Upland. This element gets to the heart of Upland's vision statement, which is to preserve and enhance Upland's small town community character and the attributes that evoke a unique sense of place—beautiful and safe neighborhoods, vibrant centers, and districts, thriving and diverse corridors, quality parks and open spaces, a scenic and natural environment, and rich historic and cultural resources. This element addresses four major topics: community character and sense of place, connectivity and walkability, historic and agricultural heritage, and arts and culture."[2] The overarching goal of this element is "the preservation and enhancement of Upland's small-town character, connectivity and walkability, historic and cultural heritage, and arts and culture in order to provide the highest quality of life and distinct sense of place for its citizens."[3]

Community Character and Sense of Place. Upland's quality neighborhoods, tree-lined corridors, mountain views, and gracious architectural heritage lend a sense of place and organization to the community. They are the primary contributors to the "small town" character of the community and offer a setting in which to integrate new development. Preserving and enhancing the attributes that define Upland's unique character and sense of place are key themes of this General Plan. Goal CC-1, A community with a small-town character and distinct sense of place that embraces complementary growth, establishes the following policy to preserve and protect Upland's historic resources:

> Goal CC-1. A community with a small-town character and distinct sense of place that embraces complementary growth.
>
> **CC-1.1: Small Town scale**. Support the maintenance and expansion of Upland's existing character by requiring preservation of historic features, buildings, and landscaping while encouraging new development to complement the character, scale, and heritage of development in the community.

Goal CC-5, Sites and buildings of a high standard of design quality, visual interest, livability, and sustainability, establishes the following policy to preserve and protect Upland's historic resources:

> Goal CC-5. Sites and buildings of a high standard of design quality, visual interest, livability, and sustainability.
>
> **CC-5.2: Building Design Principles**. Require new development projects to adhere to the basic principles of high-quality building design as set forth below, elsewhere in the General Plan, and in any additional design guidelines adopted by the City.
>
> d. *New Buildings Adjacent to Historic Buildings*. Require the design of new buildings adjacent to historic buildings to be compatible with the form and massing of the historic structure, including height, setback, massing, roof form, and architectural style.

Historic Preservation. Upland's historic districts, buildings, landscape features and physical layout are one of its greatest assets and contribute to the City's identity. With some of the most authentic historically distinct residential neighborhoods in Southern California, Upland continues to preserve its

[2] https://www.uplandca.gov/uploads/ftp/city_departments/development_services/planning/general_plan_map/pdfs/03_Community%20Character%20Element.pdf

[3] https://www.uplandca.gov/uploads/ftp/city_departments/development_services/planning/general_plan_map/pdfs/03_Community%20Character%20Element.pdf

neighborhoods, buildings, streets, and landscapes through its own programs and by leveraging the policies and programs of State and Federal agencies. Goal CC-9, A community connected to its past through historically significant sites, structures, and districts, establishes the following policies to preserve and protect Upland's historic resources:

> Goal CC-9. A community connected to its past through historically significant sites, structures, and districts.
>
> **CC-9.1: Identification**. Continue to identify historic and cultural resources including individual properties, districts, and sites to provide adequate protection of these resources.
>
> **CC-9.2: National, California, and Upland Registers**. Pursue eligibility and listing of qualified resources, including historic districts and individual resources, under the appropriate register(s).
>
> **CC-9.3: Applicable Laws and Regulations**. Ensure that City, State, and federal historic preservation laws, regulations, and codes related to historical resources are implemented, including the California Historical Building Code and State laws related to archaeological and paleontological resources, to ensure the adequate protection of these resources.
>
> **CC-9.4: Early Consultation**. Minimize the potential impacts to historic and cultural resources by consulting with property owners and land developers early in the development review process.
>
> **CC-9.5: Consultation with Individuals and Organizations**. Consult with the appropriate organizations and individuals (e.g., Information Centers of the California Historic Resources Information System (CHRIS), the Native American Heritage Commission (NAHC), and Native American groups and individuals) to minimize potential impacts to historic and cultural resources.
>
> **CC-9.6: Compatibility with Historic Context**. Review proposed new development, alterations, and rehabilitation/remodels for compatibility with the surrounding context. Pay special attention to the scale, massing, and relationship of proposed new development to surrounding historic resources.
>
> **CC-9.7: Historic Resource Property Maintenance**. Actively pursue maintenance and upkeep of historic resources to avoid the need for major rehabilitation and to reduce the risks of demolition, loss through fire or neglect, or impacts from natural disasters.
>
> **CC-9.8: Contextual Elements**. Promote the preservation, rehabilitation, restoration, and/or reconstruction, as appropriate, of contextual elements (e.g., structures, landscapes, streetlamps, signs) related to the historic resource.
>
> **CC-9.9: City-Owned Resources**. Maintain all City-owned historic and cultural resources in a manner that is consistent with the U.S. Secretary of the Interior's Standards for the Treatment of Historic Properties.
>
> **CC-9.10: Rock Curb Retention**. Preserve rock curbs in areas that have been identified as historically significant areas (i.e., Euclid Avenue) or historic districts, or immediately adjacent to these districts to create a cohesive streetscape. In addition to City efforts, work with homeowners who wish to repair the rock curbing adjacent to their residences.

CC-9.11: Historic Resources. Ensure that identified cultural and historic landmarks and buildings are preserved, unless the City finds that such preservation is economically infeasible.

CC-9.12: Certified Local Government. Become and remain a Certified Local Government per State Office of Historic Preservation requirements.

CC-9.13: Adaptive Reuse. Encourage continued use and adaptive reuse of designated historic resources through application of the U.S. Secretary of the Interior's Standards and Guidelines for rehabilitation, reconstruction, and restoration.

CC-9.14: Modifications to Historic Resources. Ensure that modifications to identified historic resources are consistent with the U.S. Secretary of the Interior's Standards for the Treatment of Historic Properties. The City's first preference is the repair of existing materials, second preference is to replace with the same materials, and third preference, when there is no other economically feasible solution, is to use simulated materials that offer the same appearance of historically used materials.

CC-9.15: Renovation and Remodels. Require the architectural details and design elements of historic structures be preserved during renovations and remodels pursuant to the Zoning Code.

CC-9.16: Demolition. Consider demolition of historic resources as a last resort, to be permitted only if the rehabilitation of the resource is not feasible, demolition is necessary to protect the health, safety, and welfare of its residents, or the public benefits outweigh the loss of the historic resource.

CC-9.17: Incentives. Use incentives such as City, State, Federal, and private grants, loans, easements, and tax credits to promote the preservation, maintenance, rehabilitation, and interpretation of the City's historic and cultural resources.

CC-9.18: Landmark Trees. Promote the preservation of Upland's landmark trees that occupy both public and private property through the preparation of a Tree Preservation Ordinance. A landmark tree is defined as a tree of historic or cultural significance based on the following criteria: (1) It is one of the oldest or largest trees of the species in the City; (2) It has historical significance due to an association with a historic event, person, site, street, or structure; or (3) It is a defining landmark or significant outstanding feature of a neighborhood.

Agricultural Heritage. The history of Upland's use of land includes citrus agriculture, a tradition that the City strives to continually preserve and celebrate through public art, the Lemon Festival, historic packing houses and ongoing support for locally-grown food. This agricultural heritage is a defining characteristic of Upland and one that will be carried into the future as a reminder of Upland's citrus origins.

Goal CC-10, A community that is connected to its historic agricultural uses, establishes the following policies to celebrate Upland's agricultural heritage:

Goal CC-10. A community that is connected to its historic agricultural uses.

CC-10.1: Citrus Heritage. Continue to integrate the citrus heritage theme into community festivals, public art, and landscaping.

CC-10.2: Memorabilia. Support Upland Heritage and similar groups' efforts to acquire and store photographs and other memorabilia relating to historical agricultural operations in Upland.

CC-10.3: Local Support. Support collaborations with local agricultural operations in surrounding jurisdictions with various Farmer's Market and school programs.

CC-10.4: Locally Grown and Organic Foods. Encourage, maintain, and enhance a local farmer's market and encourage serving locally grown and organic foods at City public facilities.

CC-10.5: Community and Rooftop Gardens. Support urban agriculture by supporting community and rooftop gardens and recognizing their value in providing fresh food in urban areas in addition to their recreational, community building, landscaping, and educational value.

CC-10.6: San Antonio Community Hospital. Collaborate with San Antonio Community Hospital for healthy community initiatives.

2.3.2 City of Upland Municipal Code

Sections 17.26.010 et seq. of the Upland Municipal Code define significance criteria for historic resources, as well as procedures to encourage, enhance, and promote historic preservation. These criteria are intended to promote the preservation and adaptive reuse of the City's historic resources, to enhance and preserve historically significant properties, and to stabilize and improve property values. Any property in Upland that is found eligible for designation as a local landmark is considered to meet the definition of a historical resource as defined by State CEQA Guidelines Section 15064.5. Pursuant to Section 17.26.100, a landmark meets one or more of the following criteria:

a) It embodies distinguishing architectural characteristics, valuable to the study of a period, style, method of construction, or the use of indigenous materials or craftsmanship.

b) It exemplifies, symbolizes, or manifests elements of the cultural, social, economic, political, or architectural history of the city.

c) It is identified with historic persons or with important events in local, state, or national history.

d) It is representative of the work or product of a notable builder, designer, or architect.

e) Its unique location or singular physical characteristics represent an established and familiar visual feature of a neighborhood.

f) It contributes to the continuity or character of a visually or thematically cohesive street, neighborhood, or area.

g) It has integrity as a natural or manmade environment that strongly contributes to the well-being of the people of the community.

3.0 ARCHIVAL RESEARCH METHODS AND RESULTS

3.1 RECORDS SEARCH

HELIX staff received the results of a record search of the California Historical Resources Information System (CHRIS) from the South Central Coast Information Center (SCCIC) on November 24, 2021, to identify previously documented archaeological resources within a 0.5-mile radius of the project site. The SCCIC maintains records of previously documented archaeological and historic-era resources (and technical studies. Confidential CHRIS results include specific information on the nature and location of sensitive archaeological sites, are exempt from the Freedom of Information Act; as such, the record search results should not be disclosed to the public or unauthorized persons The search included previously recorded archaeological and historic-era resources within the project site and surrounding 0.5-mile area. A review of the California Historical Resources and the state Office of Historic Preservation (OHP) historic properties directories was also conducted.

The records search results identified 12 previous cultural resource studies within the record search limits (Table 1, *Previous Studies within a Half-mile of the Study Area*). None of the previous studies overlap with the project site. The studies are comprised of architectural historical evaluations, archaeological field studies, and literature searches.

Table 1
PREVIOUS STUDIES WITHIN A HALF-MILE OF THE STUDY AREA

Report Number (SB-)	Year	Author	Report Title
SB-00379	1976	Harris, Ruth D.	Archaeological - Historical Resources Assessment of Proposed Gas Tax Project No. 3217 at the Intersection of San Bernardino Road and Arrow Highway at 9th Street
SB-02940	1993	Archaeological Associates	Historical Property Survey Report for the Proposed Widening of Foothill Blvd., Between Grove Ave and Lion St., in the City of Rancho Cucamonga, San Bernardino County, California
SB-03567	2001	Jensen, Peter	Archaeological Inventory Survey of Sb54xc412 Cell Tower Site, Upland Memorial Park, City of Upland, Ca. 9pp
SB-04097	2003	Tanaguchi, Christeen	Records Search Results & Site Visit for Cingular Telecommunication Facility Sb 226-02 (Upland Memorial Park), 1100 E. Foothill Blvd, City of Upland, San Bernardino County, Ca. 8pp
SB-06666	2009	Encarnacion, Deirdre	Identification and Evaluation of Historic Properties: Northwest Recycled Water System Project, Cities of Rancho Cucamonga, Upland and Ontario, San Bernardino County, California.
SB-06667	2009	Encarnacion, Deirdre	Identification and Evaluation of Historic Properties: Northwest Recycled Water System Project, Cities of Rancho Cucamonga, Upland and Ontario, San Bernardino County, California.

Report Number (SB-)	Year	Author	Report Title
SB-06669	2010	Sampson, Seth	Pearson Lab Road Grading Project, Kern and San Bernardino Counties, California NAWS Cultural Resource Number 2010-37
SB-07048	2012	Padon, Beth	Cultural Resource Assessment Study for Verizon "Hemlock" Site in Rancho Cucamonga, San Bernardino County, California
SB-07084	2010	Tang, Bai "Tom"	Preliminary Historical/Archaeological Resources Study, San Bernardino Line Positive Train Control Project, Southern California Regional Rail Authority, Counties of Los Angeles and San Bernardino.
SB-07194	2012	Puckett, Heather R.	Bowen, 997 East 8th Street, Upland, CA 91786.
SB-07708	2011	Applied Earthworks and Far Western Anthropological Research Group	Cultural Resource Constraints Analysis for Gas Hydrotesting at T-77 on Gas Transmission Line 300B.
SB-08257	2016	Tang, Bai	Due-Diligence Historical/Archaeological Resources Study Inland Empire Utilities Agency Recharge Basin Maintenance Plan Chino Basin Area, San Bernardino and Riverside Counties, California CRM TECH Contract No. 2989

* intersects with the project site.

The SCCIC record search contained 106 previously recorded cultural resources within a half-mile radius of the project site (Table 2, *Previously Recorded Resources within a Half-mile of the Study Area*). None of these 106 resources are recorded within the project site. All but one of the resources are historic buildings, with the single outlier consisting of a prehistoric lithic scatter.

Table 2
PREVIOUSLY RECORDED RESOURCES WITHIN A HALF-MILE OF THE STUDY AREA

Primary Number (P-36-##)	Trinomial (CA-LAN-#)	Age	Description	Recorder, Date
P-36-013928	-	Historic	Building	R. Hatheway, 1991; Laurie S. White, 1993
P-36-013945	-	Historic	Building	Laurie S. White, 1993
P-36-016424	-	Historic	Building	Merrill, 1987
P-36-016466	-	Historic	Building	Merrill, 1987
P-36-018150	-	Historic	Building	Merrill, 1987
P-36-018151	-	Historic	Building	Unknown, n.d.
P-36-018152	-	Historic	Building	Unknown, n.d.
P-36-018153	-	Historic	Building	Unknown, n.d.
P-36-018154	-	Historic	Building	Unknown, n.d.
P-36-018155	-	Historic	Building	Unknown, n.d.
P-36-018156	-	Historic	Building	Unknown, n.d.
P-36-018157	-	Historic	Building	Unknown, n.d.
P-36-018158	-	Historic	Building	Unknown, n.d.
P-36-018159	-	Historic	Building	Unknown, n.d.
P-36-018160	-	Historic	Building	Unknown, n.d.
P-36-018161	-	Historic	Building	Unknown, n.d.
P-36-018162	-	Historic	Building	Unknown, n.d.

Primary Number (P-36-##)	Trinomial (CA-LAN-#)	Age	Description	Recorder, Date
P-36-018163	-	Historic	Building	Unknown, n.d.
P-36-018164	-	Historic	Building	Unknown, n.d.
P-36-018165	-	Historic	Building	Unknown, n.d.
P-36-018166	-	Historic	Building	Unknown, n.d.
P-36-018167	-	Historic	Building	Unknown, n.d.
P-36-018191	-	Historic	Structure	Unknown, n.d.
P-36-018192	-	Historic	Building	Unknown, 1993
P-36-018193	-	Historic	Building	Unknown, n.d.
P-36-018194	-	Historic	Building	Unknown, n.d.
P-36-018205	-	Historic	Building	Unknown, n.d.
P-36-018206	-	Historic	Building	Unknown, n.d.
P-36-018207	-	Historic	Building	Unknown, n.d.
P-36-018208	-	Historic	Building	Unknown, n.d.
P-36-018209	-	Historic	Building	Unknown, n.d.
P-36-018210	-	Historic	Building	Unknown, n.d.
P-36-018211	-	Historic	Building	Unknown, n.d.
P-36-018212	-	Historic	Building	Unknown, n.d.
P-36-018213	-	Historic	Building	Unknown, n.d.
P-36-018214	-	Historic	Building	Unknown, n.d.
P-36-018215	-	Historic	Building	Unknown, n.d.
P-36-018216	-	Historic	Building	Unknown, n.d.
P-36-018217	-	Historic	Building	Unknown, n.d.
P-36-018218	-	Historic	Building	Unknown, n.d.
P-36-018219	-	Historic	Building	Unknown, n.d.
P-36-018220	-	Historic	Building	Unknown, n.d.
P-36-018229	-	Historic	Building	Unknown, n.d.
P-36-018230	-	Historic	Building	Unknown, n.d.
P-36-018231	-	Historic	Building	Unknown, n.d.
P-36-018232	-	Historic	Building	Unknown, n.d.
P-36-018233	-	Historic	Building	Unknown, n.d.
P-36-018234	-	Historic	Building	Unknown, n.d.
P-36-018235	-	Historic	Building	Unknown, n.d.
P-36-018236	-	Historic	Building	Unknown, n.d.
P-36-018237	-	Historic	Building	Unknown, n.d.
P-36-018238	-	Historic	Building	Unknown, n.d.
P-36-018239	-	Historic	Building	Unknown, n.d.
P-36-018412	-	Historic	Building	Unknown, n.d.
P-36-018413	-	Historic	Building	Unknown, n.d.
P-36-018414	-	Historic	Building	Unknown, n.d.
P-36-018415	-	Historic	Building	Unknown, n.d.
P-36-018416	-	Historic	Building	Unknown, n.d.
P-36-018417	-	Historic	Building	Unknown, n.d.
P-36-018418	-	Historic	Building	Unknown, n.d.
P-36-018419	-	Historic	Building	Unknown, n.d.
P-36-018420	-	Historic	Building	Unknown, n.d.
P-36-018421	-	Historic	Building	Unknown, n.d.
P-36-018422	-	Historic	Building	Unknown, n.d.
P-36-018423	-	Historic	Building	Unknown, n.d.
P-36-018424	-	Historic	Building	Unknown, n.d.
P-36-018425	-	Historic	Building	Unknown, n.d.

Primary Number (P-36-##)	Trinomial (CA-LAN-#)	Age	Description	Recorder, Date
P-36-018426	-	Historic	Building	Unknown, n.d.
P-36-018427	-	Historic	Building	Unknown, n.d.
P-36-018428	-	Historic	Building	Unknown, n.d.
P-36-018429	-	Historic	Building	Unknown, n.d.
P-36-018430	-	Historic	Building	Unknown, n.d.
P-36-018431	-	Historic	Building	Unknown, n.d.
P-36-018432	-	Historic	Building	Unknown, n.d.
P-36-018433	-	Historic	Building	Unknown, n.d.
P-36-018434	-	Historic	Building	Unknown, n.d.
P-36-018435	-	Historic	Building	Unknown, n.d.
P-36-018436	-	Historic	Building	Unknown, n.d.
P-36-018437	-	Historic	Building	Unknown, n.d.
P-36-018438	-	Historic	Building	Unknown, n.d.
P-36-018439	-	Historic	Building	Unknown, n.d.
P-36-018440	-	Historic	Building	Unknown, n.d.
P-36-018441	-	Historic	Building	Unknown, n.d.
P-36-018442	-	Historic	Building	Unknown, n.d.
P-36-018443	-	Historic	Building	Unknown, n.d.
P-36-018444	-	Historic	Building	Unknown, n.d.
P-36-018445	-	Historic	Building	Unknown, n.d.
P-36-018446	-	Historic	Building	Unknown, n.d.
P-36-018447	-	Historic	Building	Unknown, n.d.
P-36-018448	-	Historic	Building	Unknown, n.d.
P-36-018449	-	Historic	Building	Unknown, n.d.
P-36-018450	-	Historic	Building	Unknown, n.d.
P-36-018451	-	Historic	Building	Unknown, n.d.
P-36-018452	-	Historic	Building	Unknown, n.d.
P-36-018453	-	Historic	Building	Unknown, n.d.
P-36-018454	-	Historic	Building	Unknown, n.d.
P-36-018455	-	Historic	Building	Unknown, n.d.
P-36-018456	-	Historic	Building	Unknown, n.d.
P-36-018457	-	Historic	Building	Unknown, n.d.
P-36-018458	-	Historic	Building	Unknown, n.d.
P-36-018459	-	Historic	Building	Unknown, n.d.
P-36-018460	-	Historic	Building	Unknown, n.d.
P-36-018461	-	Historic	Building	Unknown, n.d.
P-36-020278	-	Historic	Building	Unknown, n.d.
P-36-020279	-	Historic	Building	Hatheway and Associates, 1991
P-36-060259	-	Prehistoric	Other	Laurie S. White, 1993

A search of the Built Environment Resource Directory (BERD) identified 110 historical resources located within the half-mile search radius, many of them also identified in the SCCIC record search. Nine of these resources received a California Historical Resource Status Code of 6Y, determined ineligible for the National Register (NR) by consensus through Section 106 process – Not evaluated for California Register (CR) or local listing. One hundred-one of these resources received a California Historical Resource Status Code of 7M, submitted to the California Office of Historic Preservation (OHP) but not evaluated – referred to National Park Service. Of the 110 resources identified, 101 of these resources are located within the Pleasant View District, a City of Upland Historic District. The buildings located within the

boundaries of the Rose Glen Residential Project are not included in the California Built Environment Resources Directory/State Historic Resources Inventory, nor are they included on a register or inventory of designated or eligible landmarks in the City of Upland.

3.2 PREVIOUS HISTORIC RESOURCE STUDIES AND EVALUATIONS

In 1992, Upland Heritage, formerly the Upland Historical Preservation Society, conducted a city-wide survey to identify potential historical resources and establish historic districts. Department of Parks and Recreation (DPR) forms were completed and submitted to SCCIC. Primary Numbers, OHP Tracking and Inventory System Identification Numbers (OTIS IDs), and Property Numbers were issued by SCCIC on January 5, 1993. Nine historic districts were established by the City of Upland, between 2003 and 2004: Arrow/Laurel Bungalow District, Citrus & Transportation District, Civic Center East District, Euclid Avenue District, Old Magnolia District, Old Town District, Pleasant View District, Stowell, and Victorian Row.

The Arrow/Laurel Bungalow District contains 54 properties and is generally bounded by G Street to the north, North Quince Avenue to the west, West 9th Street to the south, and the alley between North Laurel Avenue and Euclid Avenue to the east. Early American, Colonial Revival, Craftsman, Spanish Colonial Revival, Mission Revival, Bungalow, English Revival, and American Foursquare residential architectural styles are present in the historic district.

The Citrus & Transportation District contains nine properties among two geographic areas. The western portion is bounded by the Burlington Northern Santa Fe Railroad, San Bernardino Line to the north, 143 Euclid Place to the west, Euclid Place to the south, and Euclid Avenue to the east. The eastern portion is generally bounded by the properties north of A Street to the north, South 2nd Avenue to the west, East 8th Street to the south, and the properties east of Citrus Grove to the east. Architectural styles present among the commercial and industrial buildings are Spanish Colonial Revival, Art Deco, Streamline Moderne, and Utilitarian.

The Civic Center East District contains 28 properties and is generally bounded by East Arrow Highway to the north, North 2nd Avenue to the west, D Street to the south, and North 6th Avenue to the east. Turn of the Century, Craftsman, Farmhouse with Greek Revival influence, Spanish Colonial Revival, Late Queen Anne Revival, and Board-and-Batten/Shotgun residential styles are present in the historic district.

The Euclid Avenue District contains 103 properties and is generally bounded by East 24th Street to the north, North Laurel Avenue to the west, East 7th Street to the south, and North 2nd Avenue to the east. Architectural styles present among the commercial and residential buildings are Utilitarian, Spanish Colonial Revival, Craftsman, American Colonial Revival, Late Queen Anne Revival/Early Craftsman, American Foursquare, Mediterranean, English Revival, Turn of the Century, Monterey Revival, Tudor Revival, Tudor Revival/Eclectic, Shingle Style, Georgian Revival, Mission Revival, and Colonial Revival/ Craftsman Bungalow.

The Old Magnolia District contains 112 properties and is generally bounded by East 11th Street to the north, Euclid Avenue to the west, East Arrow Highway to the south, and North 3rd Place to the east. Craftsman, Turn of the Century, Spanish Colonial Revival, English Revival, American Colonial Revival, American Foursquare, Queen Anne Revival, and Settlement House residential styles are present in the historic district.

The Old Town District, or Second Avenue District, contains 47 properties and is bounded by C Street to the north, North 1st Avenue to the west, A Street to the south, and North 3rd Avenue to the east. Architectural styles present among the commercial buildings are Spanish Colonial Revival, Mission Revival, and Vernacular.

The Pleasant View District contains 206 properties and is generally bounded by F Street to the north, North 3rd Avenue to the west, the properties south of East 9th Street to the south, and North 11th Avenue to the east. Craftsman, Turn of the Century, American Colonial Revival, Queen Anne Revival, Gothic Revival, Shotgun, American Foursquare, Mission Revival, Spanish Colonial Revival, Bungalow, Vernacular, Eastlake, False-Front, English Revival, Minimal Traditional, and Shingle Style commercial and residential styles are present in the historic district.

Stowell is a discontinuous district, which contains six properties, and is generally bounded by East 8th Street to the north, Euclid Avenue to the west, East 7th Street to the south, and South 3rd Avenue to the east. Architectural styles present among the residential buildings are Queen Anne Revival, Turn of the Century, and Eastlake.

Victorian Row is also a discontinuous district, which contains six properties, three of which are no longer extant, and is generally bounded by C Street to the north, Euclid Avenue to the west, the property south of Stowell Street to the south, and North 1st Avenue to the east. Classical Revival and Queen Anne Revival, commercial and residential styles, are present in the historic district.

The Rose Glen Residential Project is not located within the boundaries of any of the nine City of Upland established historic districts.

3.3 FIELD SURVEY

The field survey was conducted of the project site on September 28, 2021, by HELIX Senior Architectural Historian Debi Howell-Ardila, MHP. Field investigation consisted of examination and photography of the exterior of the buildings, structures, and features within the lumber yard complex. Field notes included resource descriptions, existing conditions, alterations, character-defining features, and integrity.

The field survey focused on one historic building because two of the 11 structures located within the project site are considered modern, and the remaining eight structures are considered ancillary structures to Building C. The Lumber Finish and Storage Shed, Building C, was documented per *National Register Bulletin: How to Apply the National Register Criteria for Evaluation* guidelines (National Park Service [NPS] 1995). The DPR forms for this resource ae included as Appendix A to this report.

3.4 ARCHIVAL RESEARCH

Research conducted by HELIX for this study included a variety of primary and secondary sources. Online sources consulted for this study included the Cooper Regional History Museum, Upland Heritage, the Upland Public Library, the City of Upland, as well as the David Rumsey Map Collection, Ancestry.com, Newspapers.com, and Google Books.

3.5 PROJECT PERSONNEL

HELIX Senior Architectural Historian, Debi Howell-Ardila, MHP, and HELIX Senior Architectural Historian, Ginger Weatherford, MPS, served as principal investigators and co-authors of this study. HELIX Cultural Resources Group Manager Mary Robbins-Wade, RPA, provided quality control and strategic oversight. Ms. Howell-Ardila and Ms. Weatherford meet and exceed the Secretary of Interior's Professional Standards for architectural history and history. Resumes for key HELIX project personnel are presented in Appendix B.

4.0 HISTORIC SETTING AND CONTEXT

National Register Bulletin 24, *Guidelines for Local Surveys*, states that the historic context developed in support of historic resource surveys should analyze and describe the "broad pattern of historical development in a community or its region that may be represented by historic resources" (U.S. Department of the Interior 1985: 14). Developing a historic context for survey areas is described in NPS guidelines as vital for providing the basis for a survey effort, helping researchers successfully identify all significant resources, and helping eliminate unintended biases. Through a review of the history and prehistory of the state and region under consideration, the historic context should define important patterns of development that may be reflected in the area's historic resources.

The National Register further defines context as "a body of information about our history according to the stages of development occurring at various times and places" (U.S. Department of the Interior 1997: 7). Theme, place, and time are the basic elements that define a historic context.

Historic context is linked to the built environment through the concept of property type. A property type is "a grouping of individual properties based on a set of shared physical or associative characteristics. Physical characteristics may relate to structural forms, architectural styles, building materials, or site type. Associative characteristics may relate to the nature of associated events or activities, to associations with a specific individual or group of individuals" (U.S. Department of the Interior 1985: 14). Historic contexts, therefore, become useful tools for gauging the relative importance and integrity of properties.

In order to provide a contextual framework for the assessment of the Rose Glen Residential Project, this section provides the historic setting and context for the property, divided chronologically and according to themes of significance. Given the history of the project area, the context and theme that applies most closely include the following evaluative framework:

- Context: Post-World War II Industrial Development
  Theme: Lumber Milling
  Property Type: Industrial/Lumber Milling Complex

The following sections briefly summarize Upland's early history, followed by descriptions of the context/theme used in the evaluation of the Rose Glen Residential Project. This focused historic context section draws on original research as well as information and excerpts from previous preservation planning studies completed for the City of Upland, including the following:

1. "Historic Downtown Upland Specific Plan" (Design, Community & Environment, Strategic Economics, and Fehr and Peers Transportation Consultants, 2011); this study provides a consistent evaluative framework for assessments of the late nineteenth and early twentieth century properties in Upland

2. "Historic Context for The City of Ontario's Citrus Industry" (Galvin Preservation Associates, 2007); this early thematic historic context statement provides a comprehensive framework for evaluations, with a timeframe extending through the 1950s

Additional sources utilized in this section and report are included in Section 8 ("References").

4.1 EARLY SETTLEMENT AND DEVELOPMENT IN UPLAND

During the Spanish Period, the area of Upland was used by the San Gabriel Mission for grazing of their cattle herds, but in 1839 the secularization of the mission led the area to be granted to Tiburcio Tapia as Rancho Cucamonga (Hoffman 1862). After the Mexican-American War, a patent was filled with the Public Land Commission in 1852 and was patented to Leon Prudhomme in 1872 (H. W. Willey 1886). The Rancho was sold to John Rains in 1858 and then sold to Isaias Hellman in 1871 who, along with his partners, sub-divided the land (Hoover, et al. 1966). In 1882, over 8,000 acres were purchased by the Canadian brothers George and W.B. Chaffey, who planned an agricultural community consisting of 10-acre lots. They started the colony of Ontario in the same year, along with the creation of the San Antonio Water Company (GPA 2007). Shortly thereafter, the Chaffeys sold the northern portions of the land to the Ontario Land & Improvement Company of Los Angeles, which named the area North Ontario.

In 1887, the Atchison, Topeka, and Santa Fe railroad completed a connection to the Magnolia Tract in North Ontario, which spurred a growth boom in the area, outside of the Southern Pacific tracks located south in Ontario proper. While Ontario incorporated in 1891, it was only a half-square mile area south of the Southern Pacific tracks, though it was expanded north over 10 square miles in 1901 (Upland Public Library 2021a). That expansion spurred residents of North Ontario into incorporation, with the name of Upland, which occurred in 1906 and was expanded in 1935 to include the 1901 Ontario annexation Upland Public Library 2021b). The name was chosen from the largest packing house in town, which belonged to the Upland Lemon Growers Association.

The other force shaping the development of the Downtown commercial center was the growth of the citrus industry. Although the climate and soil in the region were ideal for growing all types of crops, citrus was extremely valuable during this time and became the dominant crop. As such, much of the early development was related to the citrus industry, followed by the small Victorian single-family homes along the city's outskirts. The citrus industry expanded throughout the 1920s and 1930s, leading to the construction of larger, modern packing houses for the various growers' associations. Five of these second-generation packing houses remain in Upland to this day.

While both cities of Ontario and Upland owed their original growth to citrus, beginning in the mid-1940s the industry's success began to decline. With the land boom that occurred after World War II, growers saw a reason to stop their groves and began to sell their land to developers (GPA 2007). The residential growth of the city got further impetus from the development of the San Bernardino Freeway (I-10) in 1954. As one of the first freeways in the nation, it eased the commute to Los Angeles and served as a major reason for the transition of Upland into a residential and commercial community.

5.0 ARCHITECTURAL DESCRIPTION

The Rose Glen Residential Project is located in the southeastern portion of the City of Upland. The irregularly shaped property is bounded by East Arrow Highway to the north, Olivewood Drive and residential properties to the east, North 14th Avenue and residential properties to the south, and a commercial property to the west.

The subject property sits at-grade, with a level site from north to south. An eight-foot-tall block wall borders the property along Olivewood Drive, separating the property from the residential properties to the east. A chain-link fence and gate border the property along East Arrow Highway; the chain-link fence extends south along the western edge of the driveway until it abuts with the northeast corner of the corrugated metal warehouse building, where it extends east and connects with the block wall. Low shrubs and a chain-link fence border the property's western boundary. A block wall and chain-link fence and gate border the southern edge of the property. Driveways located along East Arrow Highway and North 14th Avenue provide access to the property.

The property contains 10 buildings and one structure: one planing mill, seven sheds, two offices, and an incinerator. Although the planing mill, six of the sheds, one of the offices, and the incinerator, were constructed in 1956, the Lumber Finish and Storage Shed, Building C, located on the northeast corner of the lot, is the primary subject of this study. One of the sheds and one of the offices were constructed in 2003.[4]

The property is situated west of the Orange Tree/Olivewood neighborhood, which consists of residential properties. North 14th Avenue and another residential neighborhood are located south of the subject property. To the west of the subject property is Cherokee Wood Products, a large home improvement store, dating from the early 2000s. North of the subject property is a gas station, the Pacific Electric Trail, the former Pacific Electric Railway converted into a multi-functional recreation path, and another residential neighborhood.

The 15,840-square foot utilitarian Lumber Finish and Storage Shed, Building C, is clad in corrugated steel and rests on a concrete foundation (Figure 5). The storage shed was constructed by the Pascoe Steel Corporation, in 1956, for the lumber mill operation owned by the Boyd Lumber Company.[5] The primary north façade features two front-facing gable roofs, also clad in corrugated steel. The two gables appear to be two separate buildings; however, they are one large building without a wall between the two masses. The building permit notes a 66-foot by 160-foot main portion and a 66-foot by 80-foot wing. The wing, on the west side of the main portion, is set back from the north façade of the main portion (Figure 6). Both the main portion and the wing portion feature two horizontal sliding doors which extend from the ground to the bottom of the gable peak. A pedestrian access door is present on the east sliding door of the main portion (Figure 7). The east and west elevations of the main portion are void of fenestration (Figures 5 and 8). A pedestrian access door, with a steel fan above, is present on the west elevation of the wing portion (Figure 9). The south façade features two horizontal sliding doors that extend from the ground to the bottom of the gable peak (Figure 10). A pedestrian access door is present on the east sliding door of both the main portion and the wing portion (Figure 5 and 11). The interior of the shed wings is void of walls. Steel I-beams are visible on the ceiling along with several green corrugated roof portions creating skylights (Figure 12). Steel framing is visible throughout the interior

[4] Building Permits for 1400 East Arrow Highway, City of Upland, Department of Building and Safety, 1956-2003.

[5] Building Permit No. 7177, City of Upland, Department of Building and Safety, July 2, 1956.

(Figures 12 and 13). Decommissioned railway tracks are present in front of the north elevation (Figure 13). Figures 14 through 18 illustrate various views of the project site.

Figure 5. Subject property, east and south elevations (southeast perspective)

Figure 6. Subject property, north elevation (northwest perspective)

Figure 7. Detail of north elevation (north perspective)

Figure 8. Subject property, southwest perspective

Figure 9. Subject property, west elevation (southwest perspective)

Figure 10. Subject property, south elevation (south perspective)

Figure 11. Detail of juncture between shed wings, southwest perspective

Figure 12. Detail of interior (north perspective)

Figure 13. Detail of interior (left, west perspective) and exterior detail with adjacent, decommissioned railway tracks to the north (right, east perspective)

Figure 14. Detail of north elevation (northwest perspective)

Figure 15. Overview of north elevation (northeast perspective); ancillary structure appears on the right

Figure 16. Access to lumberyard from public right-of-way (north perspective)

Figure 17. Ancillary structure, west of subject property (northeast perspective)

Figure 18. Ancillary structure, west of subject property (northeast perspective)

6.0 EVALUATION

This section includes historical significance evaluations for the property under the NRHP, CRHR and the City of Upland Landmark significance criteria.

NRHP/CRHR

Resources that are found to be significant under one or more of the NRHP and/or CRHR significance criteria must also be evaluated for integrity. If a resource is not found to be historically significant under any of the criteria, then an integrity evaluation is not applicable. The following NRHP/CRHR evaluation adheres to the NPS guidelines for evaluation as provided in *National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation* (NPS 2002).

City of Upland Criteria

Since the City of Upland Landmark Criteria are essentially the same as the NRHP/CRHR Criteria, the following evaluation addresses all three historic registers.

6.1 SIGNIFICANCE CRITERIA A/1/C

NRHP Criterion A: Is associated with events that have made a significant contribution to the broad patterns of our history

Criterion 1: It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage

Local Criterion c: It is identified with historic persons or with important events in local, state, or national history

The subject property **does not appear eligible** under Criteria A/1/c. The lumber finish and storage shed building was constructed in 1956 as part of the Boyd Lumber Company operations. Archival research did not associate the property with any historically significant events or themes at the local, state, or federal level. Upland in the mid-twentieth century consisted mainly of single family residential, agricultural, and industrial properties. The lumber company most likely supplied building materials for the residential housing stock constructed in the area from 1956 to the present day. Upland has seen an increase in residential housing in more recent years; the increase can be seen on historic aerials from 1953 to the present. This trend and pattern of increased residential housing stock does not elevate the property to historically significant under Criteria A/1/c as the Boyd Lumber Company was one of many lumber companies supplying building materials to the developing City of Upland over the years.

Therefore, the subject property **does not appear eligible** under Criteria A/1/c.

6.2 SIGNIFICANCE CRITERIA B/2/C

NRHP Criterion B: Is associated with the lives of persons significant in our past

Criterion 2: It is associated with the lives of persons important in our past

Local Criterion c: It is identified with historic persons or with important events in local, state, or national history

The subject property does not appear eligible under Criteria B/2/c. Research conducted for this study did not suggest that the subject property is significant for an association with important individuals who made significant contributions at the local, state, or national level. John Frank Jenkins, listed as the agent for the Boyd Lumber Company when it was incorporated on January 4, 1956, was an active citizen in the City of Upland through his work with the lumber company; however, he does not appear to be a historically significant individual at the local level.[6]

Therefore, the subject property does not appear eligible under Criteria B/2/c.

6.3 SIGNIFICANCE CRITERIA C/3/A/D

NRHP Criterion C: Embodies the distinctive characteristics of a type, period, or method of installation, or represents the work of a master, possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction

Criterion 3: It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values

Local Criterion a: It embodies distinguishing architectural characteristics, valuable to the study of a period, style, method of construction, or the use of indigenous materials or craftsmanship

Local Criterion d: It is representative of the work or product of a notable builder, designer, or architect

The subject property does not appear eligible under Criteria C/3/a/d. The lumber finish and storage shed exhibits typical rather than distinctive characteristics of its building type and period. The shed does not reflect outstanding or distinctive design, the work of a master, method of construction, or possess high artistic value.

Therefore, the subject property does not appear eligible under Criteria C/3/a/d.

6.4 SIGNIFICANCE CRITERIA D/4

NRHP Criterion D: It has yielded, or may be likely to yield, information important in prehistory or history

Criterion 4: It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation

The subject property does not appear eligible under Criterion D/4. This Criterion is most relevant for archaeological sites, but it can be applied to historic built-environment resources if further study has the

[6] https://www.cabusinessdb.com/company/313966/

potential to yield information that cannot be obtained from other sources. However, historical information about utilitarian lumber storage shed buildings is prevalent, and further study of the property would not add any new information to the historic record.

Therefore, the subject property does not appear eligible under Criterion D/4.

6.5 SIGNIFICANCE CRITERION B

Local Criterion b: It exemplifies, symbolizes, or manifests elements of the cultural, social, economic, political, or architectural history of the city

The subject property does not appear eligible under Criterion b. While the subject property has been an established and familiar visual feature of the neighborhood since 1956, its industrial utilitarian characteristics do not rise to the level of historically significant under local criterion e.

Therefore, the subject property does not appear eligible under Criterion b.

6.6 SIGNIFICANCE CRITERION E

Local Criterion e: Its unique location or singular physical characteristics represent an established and familiar visual feature of a neighborhood

The subject property does not appear eligible under Criterion e. While the subject property has been an established and familiar visual feature of the neighborhood since 1956, its industrial utilitarian characteristics do not rise to the level of historically significant under local criterion e.

Therefore, the subject property does not appear eligible under Criterion e.

6.7 SIGNIFICANCE CRITERION F

Local Criterion f: It contributes to the continuity or character of a visually or thematically cohesive street, neighborhood, or area

The subject property does not appear eligible under Criterion f. The subject property is located in an area of Upland which contains a variety of residential, commercial, and industrial buildings. Therefore, the industrial property does not contribute to the continuity of a street, neighborhood, or area.

Therefore, the subject property does not appear eligible under Criterion f.

6.8 SIGNIFICANCE CRITERION G

Local Criterion g: It has integrity as a natural or manmade environment that strongly contributes to the well-being of the people of the community

The subject property is not a natural or manmade environment; therefore, this criterion does not apply.

7.0 CONCLUSION

As noted previously, the Rose Glen Residential Project proposes demolition of the existing buildings and structures and replace them with 64 two-story single family detached residential homes. The homes, which will be designed in the Spanish/Santa Barbara architectural style, will range from 1,544 to 1,547 square feet and extend to a maximum height of 40 feet. The project also proposes open space, internal roads, and associated infrastructure.

As a result of this intensive-level evaluation, the property at 1400 East Arrow Highway **does not appear eligible for federal, state, or local listing**. In addition, it is not included on the State Built Environment Resources Directory (BERD) or the City's register of designated properties; it is also not a contributor to one of the City's designated historic districts. Therefore, the property **does not qualify as a historical resource under CEQA**.

8.0 REFERENCES

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Appendix A

Department of Parks and Recreation
Series 523 Forms

Appendix B

Resumes of Key Personnel

Ginger Weatherford, MPS

Senior Architectural Historian

HELIX Environmental Planning

Summary of Qualifications

Ms. Weatherford is a Senior Architectural Historian who meets the Secretary of the Interior Professional Qualifications Standards in the disciplines of History and Architectural History. As a member of the Cultural Resources Department, she completes historic resource evaluations of the built environment and performs in-depth historical research. She brings 14 years of diverse geographic and typological experience including historic-era building assessments in Texas, Montana, and throughout California; completing Section 106 compliance reviews for telecommunications sites and collocation towers; preparation of California Environmental Quality Act (CEQA) historical resource surveys for transportation projects and hydro-electric power plants and transmission lines; Historic American Buildings Survey (HABS) documentation; local landmark applications; and design review analysis under the Secretary of the Interior's Standards for the Treatment of Historic Properties. Ms. Weatherford is experienced in historic paint analysis and architectural photography.

Selected Project Experience

Coachella Canal Storage Archaeological and Biological Assessments (2021 - Present). Senior Architectural Historian for the Mid-Canal Reservoir Storage Project, proposed as an inline reservoir on the Coachella Canal that will be formed by removing the existing embankment between the existing lined canal with the original earthen canal section to form a single wide trapezoidal section. Responsible for reviewing extant data on the historicity of the National Register of Historic Places (NRHP)-eligible Canal, surveying the project, and completing an impacts/effects analysis utilizing the data from the survey and the literature review. Work performed as a subconsultant to Harvey Consulting Group, with the City of Coachella as the lead agency.

Arrow 32N Residential (2021 - Present). Senior Architectural Historian for a residential development project that includes 65 residential units on 4.9-acres in the City of Upland. The project includes in-depth historical research and preparation of a Historic Resources Evaluation Report. Work performed for Century Communities.

San Diego Unified School District Education Center Preliminary Review (2021 - Present). Senior Architectural Historian for one building within an education center site development project in the City of San Diego. The project includes in-depth historical research, photographic documentation of the site and preparation of a Potential Historical Resource Review Report. Work performed as a subconsultant to AVRP Studios, with San Diego Unified School District as the lead agency.

San Diego High School HABS Documentation (2021 - Present). Senior Architectural Historian for two buildings within the whole site modernization and long-range facilities master plan project in the City of San Diego. The project includes in-

Education

Master of Preservation Studies, Tulane University, New Orleans, Louisiana, 2003

Bachelor of Science, Business Administration, emphasis in Information Systems and Environmental Design, San Diego State University, San Diego, 1996

Professional Affiliations

American Institute of Architects, San Diego Chapter

National Trust for Historic Preservation

California Preservation Foundation

Save Our Heritage Organisation

depth historical research and preparation of a Historic American Building Survey (HABS) Short-Format Report. Work performed for San Diego Unified School District.

Berensen House (2021). Architectural Historian for a residential property in the unincorporated Mount Helix community of San Diego County. The project included in-depth historical research, photographic documentation of the property, and preparation of a Historic Site Designation Report and a Mills Act Rehabilitation Plan.

St. Rita's School Convent Building (2020). Architectural Historian for an educational development project on a church property in the Valencia Park community of the City of San Diego. The project included in-depth historical research, photographic documentation of the property, and preparation of a Potential Historical Resource Review Report.

MacNofsky House (2020). Architectural Historian for a residential property in the unincorporated Mount Helix community of San Diego County. The project included in-depth historical research, photographic documentation of the property, and preparation of a Historic Site Designation Report and a Mills Act Rehabilitation Plan.

Alvarado Specific Plan (2019). Architectural Historian for a multi-unit residential development project on an existing mixed-use property within the City of La Mesa. The project included in-depth historical research, photographic documentation of the property, and preparation of a Historical Resource Analysis Report.

The Cherokee Apartments (2019). Architectural Historian for a multi-unit residential property in the Hillcrest community of the City of San Diego. The project included in-depth historical research, photographic documentation of the property, and preparation of a Historical Resource Research Report.

S. Janet Rental House (2019). Architectural Historian for a rehabilitation project on a residential property in the Loma Portal community of the City of San Diego. The project included in-depth historical research, rehabilitation consulting for the dwelling's focal window, photographic documentation of the property, and preparation of a Historical Resource Research Report.

Lieutenant Commander Donald and Major Joyce Schmock/Sim Bruce Richards House (2019). Architectural Historian for a residential property in the La Jolla community of the City of San Diego. The project included in-depth historical research, photographic documentation of the property, and preparation of a Historical Resource Research Report.

2829 Broadway (2018). Architectural Historian for a residential development project on an existing residential property in the Golden Hill community of the City of San Diego. The project included historic preservation and exterior color consulting for the Craftsman house.

AC Hotel (2017). Historic Preservation Subject Matter Expert for a commercial development project on an existing commercial property in the Gaslamp Quarter Historic District, within the City of San Diego. The project included reviewing the Gaslamp Quarter Historic District Design Guidelines against the proposed roof-top bar and communal gathering area of the hotel project and preparation of a subject matter expert report.

Debi Howell-Ardila, MHP

Senior Architectural Historian

HELIX Environmental Planning

Summary of Qualifications

Ms. Howell-Ardila is an award-winning architectural historian and historic preservation professional with 15 years of experience in environmental compliance, historic resource assessments, survey, and documentation. She has extensive experience in researching and writing about architectural history, as well as applying the regulatory framework of its diverse cities to the built environment.

Ms. Howell-Ardila's project experience has included oversight and completion of a variety of project types, including Secretary of the Interior's Standards project review, preparation of environmental compliance studies, federal and local landmark nominations, Mills Act applications, and Historic American Buildings Survey documentation. She has conducted site investigations and led historic resource surveys and evaluations throughout California, with an emphasis on Southern California. Her experience includes preparation of environmental compliance studies and documentation in support of the California Environmental Quality Act (CEQA) and contributions to studies in support of the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA). Ms. Howell-Ardila meets and exceeds requirements in the Secretary of the Interior's Professional Qualification Standards in Architectural History and History.

Selected Project Experience

Contract Planning Project Review for South Pasadena (2020 - 2021). Preservation Planner and Project Manager for project review, permit processing, and preservation planning support to the City of South Pasadena Planning and Building Department. Duties included preparing historic resource evaluations, assessing projects for compliance with the City's Municipal Code, design guidelines, and the Secretary of the Interior's Standards, and preparing and presenting staff reports to the Cultural Heritage Commission. Work performed for the City of South Pasadena Planning and Building Department.

John Hinkel Park Historic Resources Evaluation and Amphitheater Improvements Project (2018). Principal Author/Investigator and Project Manager for a historic resources evaluation of John Hinkel Park in the City of Berkeley, in support of park upgrades and improvement projects. The evaluation informed preservation project review of proposed upgrades to the park facilities, as well as new construction, to ensure compliance with the Secretary of the Interior's Standards for the Treatment of Historic Properties. Recommendations were made to the City of Berkeley and project architect in order to facilitate compliance with the Secretary's Standards, to avoid adverse impacts to historic resources, and to streamline environmental compliance review. Work performed for the City of Berkeley.

Education

Masters of Historic Preservation, University of Southern California, Los Angeles

Bachelor of Arts, German and Architectural History, University of California, Berkeley

Registrations/ Certifications

Meets/exceeds Secretary of the Interior's Professional Qualification Standards in Architectural History and History

Awards

California Preservation Foundation, Preservation Design Award (Riverside Latino Historic Context Statement, 2019; City of San Gabriel Historic Preservation Ordinance Update, 2018; and LAUSD Historic Context Statement, 2014)

Los Angeles Conservancy, Preservation Award (City of San Gabriel Historic Preservation Ordinance Update, 2018; and LAUSD Historic Context Statement, 2015)

Riverside Latino Historic Context Statement (2018). Principal Author/Investigator and Project Manager for preparation of a Latino Historic Context Statement, which explored over a century of history and culture of Riverside's Latino community. The Historic Context Statement provided a comprehensive framework for assessing properties associated with the Latino community. This effort was recognized with an award from the California Preservation Foundation in 2019. Work performed for the City of Riverside and the California Office of Historic Preservation (OHP).

University of California, Riverside Campus-wide Historic Resources Survey Report (2019 - 2021). Author and Project Manager for a campus-wide historic resources survey of the University of California, Riverside. The resulting Historic Resources Survey Report, along with a focused historic context statement and ArcGIS maps, offered the University an accurate, comparative baseline of historic resources and University assets, in support of master planning and upgrades projects. Work performed for the University of California, Riverside.

California State University, Fullerton Master Plan EIR Historic Resources Survey Report (2019 - 2020). Principal Author and Project Manager for a campus-wide historic resources survey of California State University, Fullerton (CSUF). The resulting Historic Resources Survey Report, along with a focused historic context statement and ArcGIS maps, offered the University an accurate, comparative baseline of historic resources and University assets, in support of master planning and upgrades projects. In addition, the survey results provided a sound basis for an analysis of historic resource impacts, alternatives, and mitigation measures for the CSUF Master Plan EIR. Work performed for the California State University, Fullerton.

Long Beach Grant Neighborhood Historic Context Statement and Survey (2018 - 2019). Principal Author/Investigator and Project Manager for preparation of a historic context statement and conducting a survey of Long Beach's Grant Neighborhood. As a result of the project, Grant Neighborhood's first historic district was identified and designated by City Council in 2018. Work performed for the City of Long Beach.

Anacapa Courts/Top Hat Rehabilitation Project Secretary of the Interior's Standards Project Review (2017). Principal Author and Investigator for Secretary of the Interior's Standards project review for the Anacapa Courts/Top Hat Rehabilitation Project in the City of Ventura. Project plans, including architectural drawings, site plans, and elevations, were analyzed for compliance with the Secretary of the Interior's Standards. Recommendations were made for project modifications and refinements aimed at facilitating compliance with the standards. Work performed for the City of San Buenaventura.

250 Mills Road Rehabilitation Project Secretary of the Interior's Standards Project Review (2017). Principal Author and Investigator for Secretary of the Interior's Standards project review for the 250 Mills Road Rehabilitation Project in the City of Ventura. Project plans, including architectural drawings, site plans, and elevations, were analyzed for compliance with the Secretary of the Interior's Standards. Recommendations were made for project modifications and refinements aimed at facilitating compliance with the standards. Work performed for the City of San Buenaventura.

IS/MND Appendix C

Geotechnical Evaluation

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July 21, 2021 RMA Project Number 21G-0337-0

Century Communities
7815 North Palm Ave, Suite 101
Fresno, CA 93711

Attention: Brian Taylor

Subject: Geotechnical Investigation
Upland 76
1400 East Arrow Highway
Upland, CA

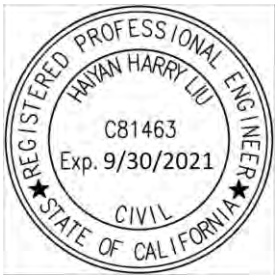
Dear Brian Taylor:

In accordance with your request, a geotechnical investigation has been completed for the proposed development at the above referenced property. The results of the investigation and testing are presented in the accompanying report, which includes a description of site conditions, results of our field exploration and testing, laboratory testing, conclusions, and recommendations. This report has been prepared for specific application to this project, in accordance with generally accepted geotechnical engineering practice.

We appreciate this opportunity to be of service to you. If you have any questions regarding this report, please do not hesitate to contact us at your convenience.

Respectfully submitted,

RMA GeoScience



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GEOTECHNICAL INVESTIGATION
UPLAND 76
1400 EAST ARROW HIGHWAY
UPLAND, CALIFORNIA

For

Century Communities
7815 North Palm Ave, Suite 101
Fresno, CA 93711

July 21, 2021

Project No. 21G-0337-0

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Table of Contents

1.00 INTRODUCTION 1

1.01 PURPOSE 1
1.02 SCOPE OF THE INVESTIGATION 1
1.03 SITE LOCATION AND DESCRIPTION 1
1.04 SITE HISTORY 1
1.05 RECORD REVIEW FINDINGS 2
1.06 PLANNED DEVELOPMENT 2
1.07 INVESTIGATION METHODS 2

2.00 FINDINGS 2

2.01 GEOLOGIC SETTING 2
2.02 EARTH MATERIALS 3
2.03 EXPANSIVE SOILS 3
2.04 SURFACE AND GROUNDWATER CONDITIONS 3
2.05 FAULTS 3
2.06 LANDSLIDES 4
2.07 LIQUEFACTION 4
2.08 HISTORIC SEISMICITY 4
2.09 FLOODING POTENTIAL 5
2.10 LANDSLIDES 5

3.00 CONCLUSIONS AND RECOMMENDATIONS 5

3.01 GENERAL CONCLUSION 5
3.02 GENERAL EARTHWORK AND GRADING 5
3.03 EARTHWORK SHRINKAGE AND SUBSIDENCE 5
3.04 REMOVAL AND RECOMPACTION 6
3.05 SEISMIC DESIGN PARAMETERS 6
3.06 LIQUEFACTION AND SECONDARY EARTHQUAKE HAZARDS 7
3.07 FOUNDATION 8
3.08 SLAB-ON-GRADE 9
3.09 MISCELLANEOUS CONCRETE FLATWORK 10
3.10 FOOTING EXCAVATION AND SLAB PREPARATION 10
3.11 LATERAL LOAD RESISTANCE 10
3.12 CEMENT TYPE AND CORROSION POTENTIAL 11
3.13 UTILITY TRENCH BACKFILL 12
3.14 TEMPORARY EXCAVATIONS 13
3.15 DRAINAGE 13
3.16 PLAN REVIEW 13
3.17 GEOTECHNICAL OBSERVATION AND TESTING 13
3.18 POST-GRADING GEOTECHNICAL OBSERVATION AND TESTING 14

4.00 CLOSURE 14

FIGURES

Figure 1	Site Vicinity Map
Figure 2	Site Plan and Geologic Map
Figure 3	Concept Design
Figure 4	Regional Geologic Map

APPENDICES

Appendix A	Field Investigation
Appendix B	Laboratory Tests
Appendix C	General Earthwork and Grading Specifications
Appendix D	References

1.00 INTRODUCTION

1.01 Purpose

The purpose of the geotechnical investigation is to summarize the geotechnical and geologic conditions at the site and to assess their potential impact on the proposed development of thirteen buildings totaling 76 units of single family housing with open space areas, associated roadway, driveways, and 31 parking stalls, and 21 street parking spaces.

1.02 Scope of the Investigation

The general scope of this geotechnical investigation included the following:

- Review of published and unpublished geologic, seismic, groundwater, and geotechnical literature
- Examination of aerial photographs and topographic maps
- Review of State of California Alquist-Priolo Earthquake Fault Zone and Seismic Hazard maps
- Contacting of Underground Service Alert (USA) to locate onsite utility lines
- Logging, sampling, and backfilling of four (4) hollow stem auger borings (8 inches diameter) to a maximum depth of 31.5 feet
- Laboratory testing of representative soil samples
- Geotechnical evaluation of the compiled data
- Preparation of this report presenting our findings, conclusions, and recommendations

Our scope of work did not include a preliminary site assessment for the potential of hazardous materials onsite.

1.03 Site Location and Description

The approximate 5.09 acre site is located at 1400 East Arrow Highway in the city of Upland, California (Figure 1 – Site Vicinity Map). The site itself and adjacent properties on the north and west are industrial associated with lumber and to the east and south are residential properties. The site is occupied by two wood framed and metal sided and roofed structures, five partially open and metal roofed structures, one two-story wood framed office building, and two to three shipping storage containers (Figure 2, Site Plan and Geologic Map). The buildings and structures are surrounded by asphalt pavement. The site is generally flat with a gentle slope towards the south-southeast with elevations of approximately 1221 in the northwest corner and 1206 in the southeast corner (Google Earth Pro).

The site coordinates are 34.098660 North and -117.631421 West.

1.04 Site History

Based on review of aerial photographs from 1938 to 2018 and topographic maps from 1897 to 2018 (Historic Aerials by NETRONLINE and Google Earth) and other information readily available online the following site history has been determined. The property was occupied by the existing northern structures and office

building as far back as 1959. The 1938 and 1948 photographs show the site as covered in grass with a grid of white dots indicating pass orchard plantings. A 1933 photograph shows the site as undeveloped and vegetated by native grasses.

1.05 Record Review Findings

Review of published geologic, seismic, groundwater, and geotechnical literature was performed for the site, and the information found was used to facilitate the writing of this investigation.

1.06 Planned Development

It is our understanding, based on the concept design prepared by KTGY Architecture that 13 buildings with a total of 76 single family residents and associated open spaces, roadway, driveways and 52 parking spaces is planned for the subject site (Figure 4 – Concept Design). Two entrances are planned, one off of Arrow Highway and one off of North 14th Avenue.

1.07 Investigation Methods

Our investigation consisted of office research, field exploration, laboratory testing, review and analysis of the compiled data, and preparation of this report. It has been performed in a manner consistent with generally accepted engineering and geologic principles and practices, and has incorporated applicable requirements of California Buildings Code. Definitions of technical terms and symbols used in this report include those of the ASTM International, the California Building Code, and commonly used geologic nomenclature.

Technical supporting data are presented in the attached appendices. Appendix A presents a description of the methods and equipment used in performing the field exploration and logs of our subsurface exploration. Appendix B presents a description of our laboratory testing and the test results. General Earthwork and Grading Specifications are presented in Appendix C. References are presented in Appendix D.

2.00 FINDINGS

2.01 Geologic Setting

The site is located in the Northern most portion of the Peninsular Ranges geomorphic province, just south of the Transverse Ranges of which the San Gabriel Mountains are a part of. The Peninsular Ranges are composed of a series of ranges separated by northwest trending valleys, extending from the base of the San Gabriel Mountains, southwest of the San Bernardino Mountains, the City of Los Angeles (and the Los Angeles Basin) to the tip of Baja California (SGS, 2002). Four large subdivisions of the Peninsular Ranges include the Santa Ana Mountain Block, the Los Angeles Basin, the Perris Block and the San Jacinto Mountains Block. The subject site is located within the Northern end of the Perris Block, within the Pomona- Chino - Fontana Valley area and also known as the Upper Santa Ana River Valley area (Morton and Miller, 2006). Apparently the northern portion of the Perris Block is down warped. Within the site vicinity, up to 950 feet of Quaternary aged sediments underlie the site vicinity and an additional 350 feet of older sediments underlies the Quaternary aged sediments totaling 1300 feet of sediments (Wildermuth(WEI), 2015). The upper 950 feet of sediments are terrestrial in nature and typically are made up of alluvial deposits derived from the San Gabriel and San Bernardino Mountains.

The most prominent geomorphic features within the site vicinity are the large late Pleistocene and Holocene aged alluvial fans emanating from the San Gabriel Mountains to the north (Figure 4 – Regional Geologic Map). According to Morton and Miller (2003 and 2006) the alluvial sediments are late Holocene in age (Qyf5), Regional Geologic Map, Figure 4. The alluvial units consist of sand mixtures with gravels. Coarser sizes such as boulder mixtures are located closer to the mountain ranges.

The earth materials encountered during our investigation are described below and the locations of the borings are shown on the Site Plan and Geologic Map, Figure 2. A full description of the earth materials encountered within each borehole is included on the boring logs, Appendix A.

2.02 Earth Materials

Artificial Fill (af)

Artificial fill was encountered in all the borings, B1 through B4 from one to three feet in depth. The artificial fill consists of fine silty sand typically with minor gravel and trace clay. In the entrance driveway area off of Arrow Highway, a cobble and brick paver was found in the artificial fill. The soils were in a slightly moist and medium dense condition.

Young Alluvial Fan Deposits (Qyf_5)

The site is underlain by Late Holocene-aged Young Alluvial Fan Deposits which consists of fine silty sand with minor gravel, fine to coarse gravelly silty sand and silty sandy gravel. Occasional cobbles are present. The alluvium is in a slightly moist to moist and medium dense to dense condition.

2.03 Expansive Soils

Based on our preliminary observations and laboratory data, the soils at shallow depths are expected to have an expansion index in the very low range. Additional expansion index testing will be required at the completion of rough grading to verify the properties of the near surface soils.

2.04 Surface and Groundwater Conditions

Groundwater was not encountered in the boring excavated to a maximum depth of 31.5 feet. Surface water on the site is limited to precipitation falling directly on the asphalt covered ground surface and buildings. There was no surface water encountered at the time of our investigation. The subject site is located within the Chino Groundwater Basin. According to WEI (2017), the depth to groundwater within the site vicinity is approximately 600 feet below existing.

2.05 Faults

An Alquist-Priolo Earthquake Fault Zones Map has not been prepared for the Ontario Quadrangle. The Red Hill/Etawanda Avenue Fault as shown on the Regional Geologic Map – Figure 4 is trending southwest towards the area north of the subject site, although it ends approximately 1300 feet to the northeast. According to the United States Geological Survey's (USGS) Quaternary Fault and fold Database of the United States, this fault is not classified as an active Alquist-Priolo Earthquake Fault. The proposed site is not located within a mapped Alquist-

Priolo Earthquake Fault Zone, and there are no known active faults on or immediately adjacent to the property. However, there are faults in close enough proximity to the site to cause moderate to intense ground shaking during the lifetime of the proposed development. Additionally, the site has experienced earthquake-induced ground shaking in the past and can be expected to experience further shaking in the future. The closest zoned faults include the Cucamonga section of the Sierra Madre fault zone, located approximately 3.85 miles to the northwest and 4.12 miles north of the subject site and the San Bernardino Valley section of the San Jacinto Fault located approximately 12.4 miles to the northeast of the project site.

2.06 Landslides

According to the California Geological Survey, Seismic Hazard Zones Map for the area (2000) the site does not lie in a landslide hazard zone. Since the site is relatively flat and there are no nearby slopes earthquake-induced landsliding does not appear to be a hazard to proposed development.

2.07 Liquefaction

According to the California Geological Survey Seismic Hazard Zones Map (2000), the site does not lie in a liquefaction hazard zone. Liquefaction is a phenomenon where earthquake-induced ground vibrations increase the pore pressure in saturated, granular soils until it is equal to the confining, overburden pressure. When this occurs, the soil can completely lose its shear strength and enter a liquefied state. The possibility of liquefaction is dependent upon grain size, relative density, confining pressure, saturation of the soils, and intensity and duration of ground shaking. In order for liquefaction to occur, three criteria must be met: underlying loose, coarse-grained (sandy) soils, a groundwater depth of less than about 50 feet, and a potential for seismic shaking from nearby large-magnitude earthquake.

Depth to groundwater in the region of the site is on the order of 600 feet below ground surface as discussed in Section 2.04 and the site soils are relatively dense, therefore the liquefaction hazard potential at the site is negligible.

2.08 Historic Seismicity

The region of the subject site has experienced shaking from several earthquakes recorded back to 1812. The nearest large historic earthquake is the Northridge Earthquake that occurred in 1994, the epicenter of which is 44.2 miles from the site. Historic earthquakes with magnitudes of greater than or equal to 6.0 and have been epicentered within approximately 50 miles of the site, are summarized in the following table.

Large Historic Earthquakes

Earthquake Event	LAT. NORTH	LONG. WEST	DATE	DEPTH (km)	Quake Mag.	APPROX. DISTANCE mi [km]
San Bernardino Region	34.0000	117.5000	12/16/1858	0.0	7.00	10.1(16.3)
Lytle Creek Region	34.3000	117.6000	7/30/1894	0.0	6.00	14.0 (22.5)
Lytle Creek Region	34.3000	117.5000	7/22/1899	0.0	6.50	15.8(25.4)
Wrightwood	34.3700	117.6500	12/8/1812	0.0	7.00	18.8(30.2)
San Bernardino Region	34.0000	117.2500	7/23/1923	0.0	6.25	22.9(26.8
Los Angeles Region	34.1000	118.1000	7/11/1855	0.0	6.30	26.8(43.1)

Los Angeles Region	34.9000	117.9670	12/19/1880	0.0	6.00	28.2(45.5)
Glen Ivy Hot Springs	33.7000	117.4000	5/15/1910	0.0	6.00	30.6(49.2)
San Bernardino Region	34.2000	117.2000	9/20/1907	0.0	6.00	31.2(50.1)
Long Beach	33.6170	117.9670	3/11/1933	0.0	6.30	38.4(61.8)
San Jacinto and Hemet	33.8000	117.0000	12/25/1899	0.0	6.40	41.6(67.0)
San Jacinto	33.7500	117.0000	4/21/1918	0.0	6.80	43.4(69.9)
San Bernardino Region	34.2030	116.8270	6/28/1992	0.0	6.25	46.5(74.9)

2.09 Flooding Potential

According to Federal Emergency Management Agency (Flood Insurance Rate Map #06071C8607H, effective date 8/28/2008), the site is located in an area of Flood Zone X, which is an area where the likelihood of flood hazards is considered minimal.

2.10 Landslides

Due to the low gradient of the site and surrounding area, landsliding is not a hazard at this property.

3.00 CONCLUSIONS AND RECOMMENDATIONS

3.01 General Conclusion

Based on the data collected thus far the project appears feasible from a geotechnical standpoint. Our preliminary recommendations provided below are based on the data collected thus far and our understanding of the project and our general experience in engineering geology and geotechnical engineering.

3.02 General Earthwork and Grading

All grading should be performed in accordance with the General Earthwork and Grading Specifications outlined in Appendix C, unless specifically revised or amended below. Recommendations contained in Appendix C are general specifications for typical grading projects and may not be entirely applicable to this project.

It is also recommended that all earthwork and grading be performed in accordance with Appendix J of the 2016 California Building Code and all applicable governmental agency requirements. In the event of conflicts between this report and Appendix J, this report shall govern.

3.03 Earthwork Shrinkage and Subsidence

Shrinkage is the decrease in volume of soil upon removal and recompaction expressed as a percentage of the original in-place volume. Subsidence occurs as natural ground is densified to receive fill. These factors account for changes in earth volumes that will occur during grading. Our estimates are as follows:

- Shrinkage factor = 5% to 12% for soil removed and replaced as compacted fill.

- Subsidence factor = 0.1 foot.

The degree to which fill soils are compacted and variations in the insitu density of existing soils will influence earth volume changes. Consequently, some adjustments in grades near the completion of grading could be required to balance the earthwork.

3.04 Removal and Recompaction

After removal of existing concrete flatworks, landscaping features and trees, all vegetation, roots, organic rich soil (soils containing more that 2 percent organics by weight), trash and debris should be cleared from the grading area. The following removals and over-excavation should be completed within the limits of grading:

- All artificial fill soil should be removed within the limits of grading. The fill soil may be used for engineered fill provided it is free of trash and organic material. Within the building areas, removals are recommended to a minimum of five feet below existing grade or three feet below the bottom of planned footings, whichever is greater.
- Within the area of planned concrete flatworks, all artificial fill must be completely removed and the subgrade must be over-excavated at least 12 inches below the stripped surface or the finished subgrade surface, whichever is lower.

Following the over-excavation indicated above, a designated representative for the Project Geotechnical Engineer must review the exposed ground surface and determine if any additional over-excavation is required. The over-excavated ground surface in all areas determined to be satisfactory for the support of fills must be scarified to a minimum depth of 6 inches. Scarification should continue until the soils are broken down and free from lumps or clods and until the scarified zone is uniform. The moisture content of the scarified zone shall be adjusted to within 2% of the optimum moisture content. The scarified zone must then be uniformly compacted to at least 90% relative compaction

The above recommendations are based on the assumption that soils encountered during field exploration are representative of soils throughout the site. However, there can be unforeseen and unanticipated variations in soils between points of subsurface exploration. Hence, overexcavation depths must be verified, and adjusted if necessary, at the time of grading.

3.05 Seismic Design Parameters

Mapped Spectral Accelerations were obtained by using the online ATC Calculator (ASCE 7-16 Standard) and a site class D-default was used for the project site based on seismic shear-wave survey results. Since the mapped risk-targeted maximum considered earthquake (MCE_R) spectral response acceleration parameter at a period of 1 second (S_1) is greater than 0.2, a ground motion hazard analysis is required per ACSE/SEI 7-16 to be performed in accordance with Section 21.2 for structures on Site Class D. However, instead of performing the ground motion hazard analysis, a long period coefficient (F_V) of 1.7 was used for calculation of S_{M1} and S_{D1}. The parameters generated for the subject site are presented in the following table:

2019 California Building Code (CBC) Seismic Parameters

Parameter	Value
Site Location	Latitude = 34.09866 degrees Longitude = -117.63142 degrees
Site Class	Site Class = D-default
Mapped Spectral Accelerations	S_s (0.2- second period) = 1.5g S_1 (1-second period) = 0.6g
Site Coefficients (Site Class D-default)	F_a = 1.2 F_v = 1.7
Maximum Considered Earthquake Spectral Accelerations (Site Class D-default)	S_{MS} (0.2- second period) = 1.8g S_{M1} (1-second period) = 1.02g
Design Earthquake Spectral Accelerations (Site Class D-default)	S_{DS} (0.2- second period) = 1.2g S_{D1} (1-second period) = 0.68g

For Risk Category II structures with mapped spectral response acceleration parameter at 1-s period (S_1) is less than 0.75, the Seismic Design Category is D (ASCE 7-16 Section 11.6).

Peak earthquake ground acceleration adjusted for site class effects (PGA_M) has been determined in accordance with ASCE 7-16 Section 11.8.3 as follows: $PGA_M = F_{PGA} \times PGA = 1.2 \times 0.595g = 0.714g$.

3.06 Liquefaction and Secondary Earthquake Hazards

Potential secondary seismic hazards that can affect land development projects include liquefaction, tsunamis, seiches, seismically induced settlement, seismically induced flooding and seismically induced landsliding.

Liquefaction

Liquefaction hazard potential for the site is discussed in Section 2.07 of this report.

Tsunamis and Seiches

Tsunamis are sea waves that are generated in response to large-magnitude earthquakes. When these waves reach shorelines, they sometimes produce coastal flooding. Seiches are the oscillation of large bodies of standing water, such as lakes, that can occur in response to ground shaking. Tsunamis and seiches do not pose hazards due to the inland location of the site.

Seismically Induced Settlement

Seismically induced settlement occurs most frequently in areas underlain by loose, granular sediments. Damage as a result of seismically induced settlement is most dramatic when differential settlement occurs in areas with large variations in the thickness of underlying sediments. Settlement caused by ground shaking is often non-uniformly distributed, which can result in differential settlement. Given the dense nature of the alluvium that underlies the site the potential for seismically induced settlement is low.

Seismically Induced Flooding

There are no up gradient water reservoirs or dams located in close proximity of the site. Consequently seismically induced flooding at the site is unlikely.

Seismically Induced Landsliding

According to the California Geological Survey Seismic Hazard Zones Map (2000) the site does not lie in a landslide hazard zone. Since the site is relatively flat earthquake-induced landsliding does not appear to be a hazard to proposed development.

3.07 Foundation

Isolated spread footings are proposed to support the proposed structures. If the recommendations in the section on grading are followed and footings are established in compacted fill materials, footings may be designed using the following allowable soil bearing values.

- For continuous wall footings, the allowable soil bearing values and foundation parameters are summarized in the following table.

Number of Stories	Expansion Index	Footing Width, inches	Depth Below Finish Grade		Allowing Soil Bearing Values (psf)
			Perimeter Footings, inch	Interior Footings, inch	
1	Low	12	15	12	1500
2	Low	15	18	18	2000

- Isolated Spread Footings:

  Footings having a minimum width of 24 inches and a minimum depth of 18 inches below the lowest adjacent grade may be designed for an allowable bearing pressure of 1,800 psf.

- Retaining Wall Footings:

  Footings for retaining walls should be founded a minimum depth of 12 inches and have a minimum width of 12 inches. Footings may be designed using the allowable bearing capacity of 1,500 pounds per square foot (psf). However, when calculating passive resistance, the upper 6 inches of the footings should be ignored in areas where the footing will not be covered with concrete flatwork. Reinforcement should be provided for structural considerations by the design engineer.

The above bearing capacities represent an allowable net increase in soil pressure over existing soil pressure and may be increased by one-third for short-term wind or seismic loads.

The maximum expected static settlement of footings designed with the recommended allowable bearing capacity is expected to be less than 1 inch with a differential settlement of ½ inch over a distance of 30 feet for continuous footings. A nominal reinforcement consisting of at least one #4 bar placed within 3 inches of the top of footings and another placed within 3 inches of the bottom of footings is recommended. Reinforcement of wide footings should be determined by the structural engineer who may also require heavier reinforcement.

Due to the preliminary nature of the expansion tests performed for this study, we recommend additional testing be performed near the completion of rough grading to verify the test results and recommended foundation design criteria.

3.08 Slab-On-Grade

Concrete floor slabs on grade with a minimum thickness of 4 inches are recommended for slabs on grade for the proposed structures for normal floor loading conditions. However, if heavy concentrated or moving loads are anticipated, slabs should be designed using a modulus of subgrade reaction (k) of 150 psi/in when soils are prepared in conformance with the grading recommendations contained within the report. Reinforcement of slabs on grading is not required to mitigate the expansive soils. Reinforcement may be specified by the structural engineer.

Concrete floor slabs on grade should be divided into squares or rectangles using weakened plane joints (contraction joints), each with maximum dimensions not exceeding 15 feet. Contraction joints should be made in accordance with American Concrete Institute (ACI) guidelines. If weakened plane joints are not used, then the slabs shall be reinforced with 6x6-10/10 welded wire fabric placed at mid-height of the slab.

Special care should be taken on floors slabs to be covered with thin-set tile or other inflexible coverings. These areas may be reinforced with 6x6-10/10 welded wire fabric placed at mid-height of the slab, to mitigate drying shrinkage cracks. Alternatively, inflexible flooring may be installed with unbonded fabric or liners to prevent reflection of slab cracks through the flooring.

A moisture vapor retarder/barrier is recommended beneath all slabs-on-grade that will be covered by moisture-sensitive flooring materials such as vinyl, linoleum, wood, carpet, rubber, rubber-backed carpet, tile, impermeable floor coatings, adhesives, or where moisture-sensitive equipment, products, or environments will exist. We recommend that design and construction of the vapor retarder or barrier conform to Section 1805 of the 2019 California Building Code (CBC) and pertinent sections of American Concrete Institute (ACI) guidance documents 302.1R-04, 302.2R-06 and 360R-10.

The moisture vapor retarder/barrier should consist of a minimum 10 mils thick polyethylene with a maximum perm rating of 0.3 in accordance with ASTM E 1745. Seams in the moisture vapor retarder/barrier should be overlapped no less than 6 inches or in accordance with the manufacturer's recommendations. Joints and penetrations should be sealed with the manufacturer's recommended adhesives, pressure-sensitive tape, or both. The contractor must avoid damaging or puncturing the vapor retarder/barrier and repair any punctures with additional polyethylene properly lapped and sealed.

ACI guidelines allow for the placement of moisture vapor retarder/barriers either directly beneath floor slabs or below an intermediate granular soil layer.

Placing the moisture retarder/barrier directly beneath the floor slab will provide improved curing of the slab bottom and will eliminate potential problems caused by water being trapped in a granular fill layer. Concrete slabs poured directly on a vapor retarder/barrier can experience shrinkage cracking and curling due to differential rates of curing through the thickness of the slab. Therefore, for concrete placed directly on the vapor retarded, we recommend a maximum water cement ratio of 0.45 and the use of water-reducing admixtures to increase workability and decrease bleeding.

If granular soil is placed over the vapor retarder/barrier, we recommend that the layer be at least 2 inches thick above and below in accordance with traditional practice in southern California. Granular fill should consist of clean fine graded materials with 10 to 30% passing the No. 100 sieve and free from clay or silt. The granular layer should be uniformly compacted and trimmed to provide the full design thickness of the proposed slab. The granular fill layer should not be left exposed to rain or other sources of water such as wet-grinding, power washing, pipe leaks or other processes, and should be dry at the time of concrete placement. Granular fill layers that become saturated should be removed and replaced prior to concrete placement.

3.09 Miscellaneous Concrete Flatwork

Miscellaneous concrete flatwork and walkways may be designed with a minimum thickness of 4 inches. Large slabs should be reinforced with a minimum of 6x6-10/10 welded wire mesh placed at mid-height in the slab. Control joints should be constructed to create squares or rectangles with a maximum spacing of 15 feet.

Walkways may be constructed without reinforcement. Walkways should be separated from foundations with a thick expansion joint filler. Control joints should be constructed into non-reinforced walkways at a maximum of 5 feet spacing.

The subgrade soils beneath all miscellaneous concrete flatwork should be compacted to a minimum of 95 percent relative compaction for a minimum depth of 12 inches. The geotechnical engineer should monitor the compaction of the subgrade soils and perform testing to verify that proper compaction has been obtained.

3.10 Footing Excavation and Slab Preparation

All footing excavations should be observed by the geotechnical consultant to verify that they have been excavated into competent soils. The foundation excavations should be observed prior to the placement of forms, reinforcement steel, or concrete. These excavations should be evenly trimmed and level. Prior to concrete placement, any loose or soft soils should be removed. Excavated soils should not be placed on slab or footing areas unless properly compacted.

Prior to the placement of the moisture barrier and sand, the subgrade soils underlying the slab should be observed by the geotechnical consultant to verify that all under-slab utility trenches have been properly backfilled and compacted, that no loose or soft soils are present, and that the slab subgrade has been properly compacted to a minimum of 95 percent relative compaction within the upper 12 inches. Footings may experience and overall loss in bearing capacity or an increased potential to settle where located in close proximity to existing or future utility trenches. Furthermore, stresses imposed by the footings on the utility lines may cause cracking, collapse and/or a loss of serviceability. To reduce this risk, footings should extend below a 1:1 plane projected upward from the closest bottom of the trench.

Subgrade soils beneath slabs on grade and walkways moist prior to the placement of concrete. The geotechnical consultant should verify that the appropriate moisture content has been achieved a maximum of 24 hours prior to the placement of concrete or moisture barriers.

3.11 Lateral Load Resistance

Lateral loads may be resisted by soil friction and the passive resistance of the soil. The following parameters are recommended.

- Passive Earth Pressure = 330 pcf (equivalent fluid weight).

  We recommend neglecting passive soil resistance from the upper foot of soil unless protected by a concrete slab or pavement.

- Coefficient of Friction (soil to footing) = 0.3
- Retaining structures should be designed to resist the following lateral active earth pressures:

Surface Slope of Retained Materials (Horizontal:Vertical)	Equivalent Fluid Weight (pcf)
Level	34
5:1	35
4:1	36
3:1	39
2:1	47

  These active earth pressures are only applicable if the retained earth is allowed to strain sufficiently to achieve the active state. The required minimum horizontal strain to achieve the active state is approximately 0.0025H. Retaining structures should be designed to resist an at-rest lateral earth pressure if this horizontal strain cannot be achieved.

- At-rest Lateral Earth Pressure = 54 pcf (equivalent fluid weight)

The Mononobe-Okabe method is commonly utilized for determining seismically induced active and passive lateral earth pressures and is based on the limit equilibrium Coulomb theory for static stress conditions. This method entails three fundamental assumptions (e.g., Seed and Whitman, 1970): Wall movement is sufficient to ensure either active or passive conditions, the driving soil wedge inducing the lateral earth pressures is formed by a planar failure surface starting at the heel of the wall and extending to the free surface of the backfill, and the driving soil wedge and the retaining structure act as rigid bodies, and therefore, experiences uniform accelerations throughout the respective bodies (U.S. Army Corps of Engineers, 2003, Engineering and Design - Stability Analysis of Concrete Structures).

- Seismic Lateral Earth Pressure = 20 pcf (equivalent fluid weight).

The seismic lateral earth pressure given above is increasing with depth, and the resultant of this pressure is an increment of force which should be applied to the back of the wall at ⅓ of the wall height from the wall base. The seismic increment of earth pressure should be added to the static active earth pressure. Even for the at-rest (K_O) condition, the seismic increment of earth pressure should be added to the static active earth pressure, not to the at-rest static earth pressure (SEAOC Seismology Committee 2019).

Per 2019 CBC Section 1803.5.12 dynamic seismic lateral earth pressures shall be applied to foundation walls and retaining walls supporting more than 6 feet of backfill. Dynamic seismic lateral earth pressures may also be applied to shorter walls at the discretion of the structural engineer.

3.12 Cement Type and Corrosion Potential

A soluble sulfate test performed on a shallow sample of soil indicates that concrete at the subject site will have a

negligible exposure to water-soluble sulfate in the soil. Our recommendations for concrete exposed to sulfate-containing soils are presented in the following table.

Recommendations for Concrete exposed to Sulfate-containing Soils

Sulfate Exposure	Water Soluble Sulfate (SO_4) in Soil (% by Weight)	Sulfate (SO_4) in Water (ppm)	Cement Type (ASTM C150)	Maximum Water-Cement Ratio (by Weight)	Minimum Compressive Strength (psi)
Negligible	0.00 - 0.10	0-150	--	--	2,500
Moderate	0.10 - 0.20	150-1,500	II	0.50	4,000
Severe	0.20 - 2.00	1,500-10,000	V	0.45	4,500
Very Severe	Over 2.00	Over 10,000	V plus pozzolan or slag	0.45	4,500

Use of alternate combinations of cementitious materials may be permitted if the combinations meet design recommendations contained in American Concrete Institute guideline ACI 318-11.

The soils were also tested for soil reactivity (pH) and electrical resistivity (ohm-cm). The test results indicate that the on-site soils have a soil reactivity of 7.3 and an electrical resistivity of 15,000 ohm-cm. A neutral or non-corrosive soil has a reactivity value ranging from 5.5 to 8.4. Generally, soils that could be considered moderately corrosive to ferrous metals have resistivity values of about 3,000 ohm-cm to 10,000 ohm-cm. Soils with resistivity values less than 3,000 ohm-cm can be considered corrosive and soils with resistivity values less than 1,000 ohm-cm can be considered extremely corrosive.

Based on our analysis, underlying onsite soils are not corrosive to ferrous metals. Protection of buried pipes utilizing coatings on all underground pipes; clean backfills and a cathodic protection system can be effective in controlling corrosion. A qualified corrosion engineer may be consulted to further assess the corrosive properties of the soil.

3.13 Utility Trench Backfill

The onsite fill soils will not be suitable for use as pipe bedding for buried utilities. All pipes should be bedded in a sand, gravel or crushed aggregate imported material complying with the requirements of the Standard Specifications for Public Works Construction (Greenbook) Section 306-1.2.1. Crushed rock products that do not contain appreciable fines should not be utilized as pipe bedding and/or backfill. Bedding materials should be densified to at least 90% relative compaction (ASTM D1557). The geotechnical consultant should review and approve of proposed bedding materials prior to use.

The on-site soils are expected to be suitable as trench backfill provided they are screened of organic matter, boulders and cobbles over 6 inches in diameter. Trench backfill should be densified to at least 90% relative compaction (ASTM D1557). On-site granular soils with a sand equivalent value of 15 or greater may be water densified initially per Greenbook Specifications. Supplemental mechanical compaction methods will be required to attain the required 90% relative compaction.

All utility trench backfill within street right of way, utility easements, under or adjacent to sidewalks, driveways, or building pads should be observed and tested by the geotechnical consultant to verify proper compaction. Trenches excavated adjacent to foundations should not extend within the footing influence zone defined as the area within a line projected at a 1:1 drawn from the bottom edge of the footing. Trenches crossing perpendicular to foundations should be excavated and backfilled prior to the construction of the foundations. The excavations should be backfilled in the presence of the geotechnical engineer and tested to verify adequate compaction beneath the proposed footing.

Cal/OSHA construction safety orders should be observed during all underground work.

3.14 Temporary Excavations

Based on the recommended removal depths as described in Section 3.04, temporary excavations within the limits of grading are expected to be 4 feet. Excavations may be cut vertically to a maximum height of 4 feet. Cuts above 5 feet may be laid back at a gradient of 1:1.

3.15 Drainage

Surface drainage should be directed away from the proposed structures into suitable drainage devices. Neither excess irrigation nor rainwater should be allowed to collect or pond against building foundations or within low-lying or level areas of the lot. Surface waters should be diverted away from the tops of slopes and prevented from draining over the top of slopes and down the slope face.

3.16 Plan Review

Once formal plans are prepared for the subject property, this office should review the plans from a geotechnical viewpoint, comment on changes from the plan used during preparation of this report and revise the recommendations of this report where necessary.

3.17 Geotechnical Observation and Testing

The geotechnical engineer should be contacted to provide observation and testing during the following stages of grading:

- During the clearing and grubbing of the site.
- During the demolition of any existing structures, buried utilities or other existing improvements.
- During excavation and overexcavation of compressible soils.
- During all phases of grading including ground preparation and filling operations.
- When any unusual conditions are encountered during grading.

A final geotechnical report summarizing conditions encountered during grading should be submitted upon completion of the rough grading operations.

3.18 Post-Grading Geotechnical Observation and Testing

After the completion of grading the geotechnical engineer should be contacted to provide additional observation and testing during the following construction activities:

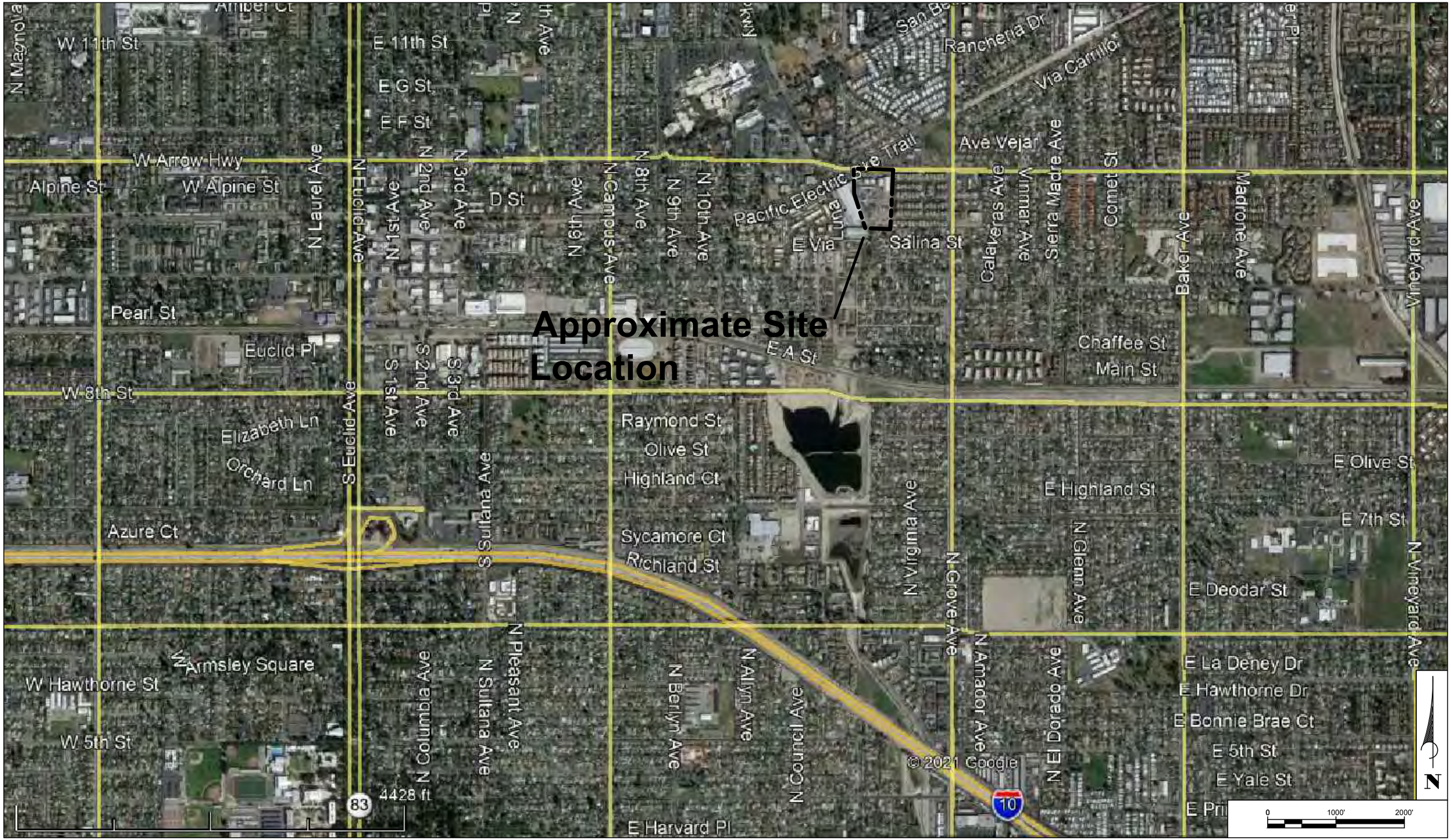
- During trenching and backfilling operations of buried improvements and utilities to verify proper backfill and compaction of the utility trenches.
- After excavation and prior to placement of reinforcing steel or concrete within footing trenches to verify that footings are properly founded in competent materials.
- The placement of any fills underlying driveways, sidewalks, walkways, or other miscellaneous concrete flatwork to verify proper placement, mixing and compaction of fills.
- When any unusual conditions are encountered during construction.

4.00 CLOSURE

This investigation was completed in accordance with generally accepted industry practice to provide recommendations for developing the property from a geotechnical perspective. Information presented in this report is based on research, field investigation, laboratory testing, and engineer judgment obtained from similar projects completed on nearby properties. This assessment is not, and should not be construed as, a warranty or guarantee concerning the geotechnical conditions which may affect the future development of the property. All discovered information has been disclosed and a good faith effort has been made to consult pertinent sources.

This study and report have been prepared on behalf and for the exclusive use of Hillcrest and solely for use as a preliminary evaluation of the subject site. This report and its findings shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without prior written consent of RMA Geoscience, Inc. and Century Communities. However, RMA Geoscience, Inc. acknowledges and agrees that the report may be conveyed to the design professionals for consideration in developing the property.

FIGURES



Source: Google Earth Images

Site Vicinity Map

Upland 76
1400 East Arrow Highway
Upland, California

Figure 1

RMA Job No:	21G-0337-0
Report Date:	7/2021
Prepared By:	mbk

RMA GeoScience

Explanation

Qyf_5 Late Holocene Aged Alluvial Fan Deposits

B1 Approximate Location of Hollowstem Auger Boring

N

0 50' 100'

Site Plan and Geologic Map

Upland 76
1400 East Arrow Highway
Upland, California

Figure 2

RMA Job No:	19G-0337-0
Report Date:	7/2021
Prepared By:	mbk

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Parking Summary

Parking Required:	
3+ Bed Units: 76x2.5	190 Spaces
Guest Parking: 76x0.2:	16 Spaces
Total Required:	206 Spaces

Parking Provided:	
Private Garages:	152 Spaces
Open Parking:	55 Spaces
Total	207 Spaces (2.7/Unit)

Development Standards

Standard	Required	Provided
Front Yard Setback	20'	20'
Side Yard Setback	5'	5'
Rear Yard Setback	15'	15'
Building Height	40' max.	±30'
Building Separation	15'	22'
Common Open Space	250 sf/unit: 19,000 sf	18,800 sf
Private Open Space	100 sf/unit: 7,600 sf	9,100 sf
Total Open Space	26,600 sf	27,900 sf

RMA GeoScience

Architecture + Planning
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ktgy.com

CENTURY COMMUNITIES
4695 MacArthur Court, Suite 300
Newport Beach, CA 92660

UPLAND 32N
UPLAND, CA # 2021-0470

CONCEPT DESIGN
May 6, 2021

Concept Design

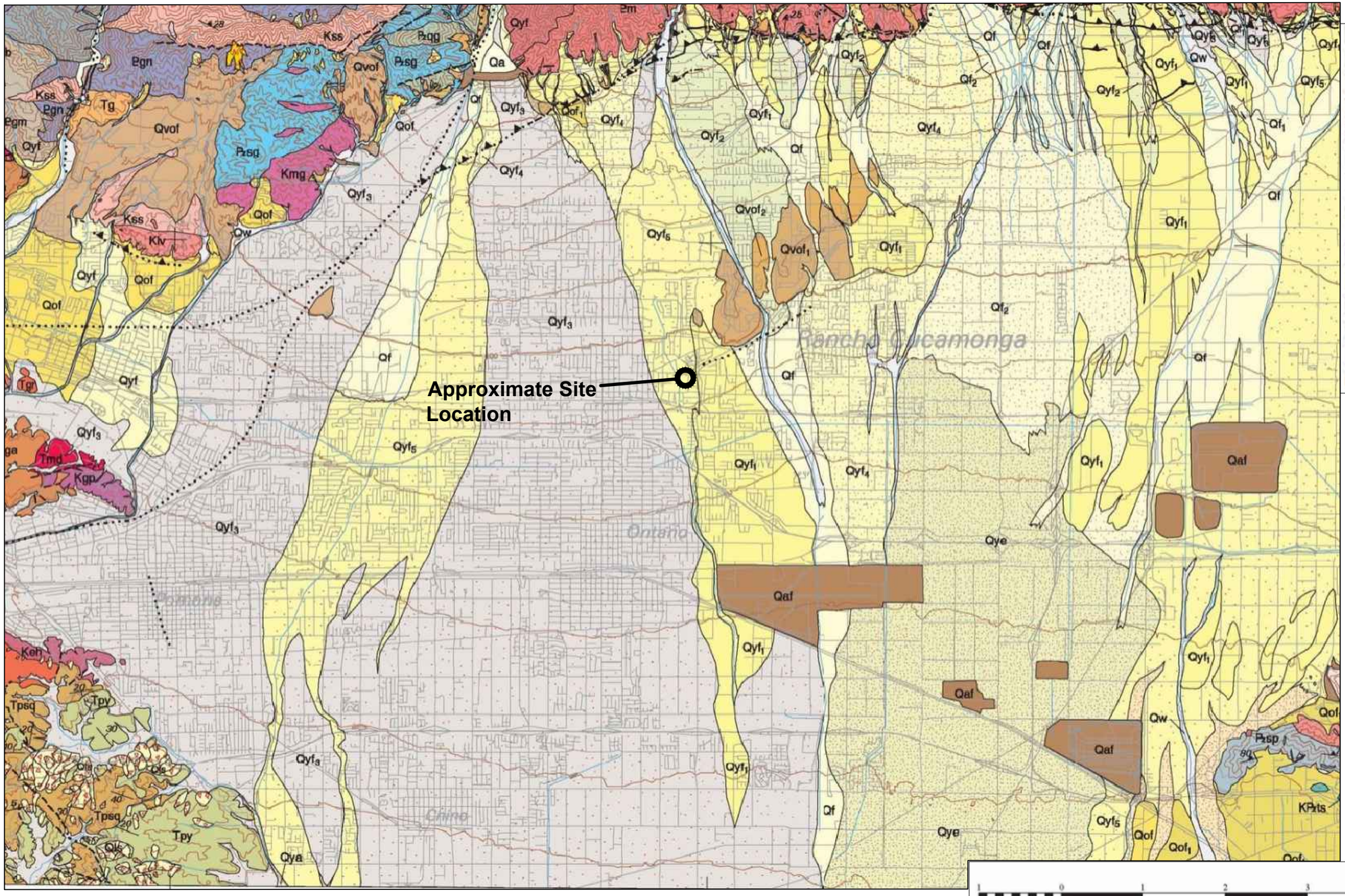
Upland 76
1400 East Arrow Highway
Upland, California

0 15 30 60

Figure 3

RMA Job No:	19G-0337-0
Report Date:	7/2021
Prepared By:	mbk

A1.0



Partial Explanation

Ql	Very young lacustrine deposits (late Holocene)
Qe	Very young eolian deposits (late Holocene)
Qs	Very young surficial deposits (late Holocene)
Qs_1	Very young surficial deposits, Unit 1 (late Holocene)
Qyw, Qyw-	Young wash deposits (Holocene and late Pleistocene)
Qyw_3	Young wash deposits, Unit 3 (early Holocene)
Qyw_2	Young wash deposits, Unit 2 (early Holocene)
Qyw_1	Young wash deposits, Unit 1 (early Holocene and late Pleistocene)
Qyf	Young alluvial-fan deposits (Holocene and late Pleistocene)
Qyf_5	Young alluvial-fan deposits, Unit 5 (late Holocene)
Qyf_4	Young alluvial-fan deposits, Unit 4 (late Holocene)
Qyf_3	Young alluvial-fan deposits, Unit 3 (middle Holocene)
Qyf_2	Young alluvial-fan deposits, Unit 2 (middle Holocene)
Qyf_1	Young alluvial-fan deposits, Unit 1 (middle Holocene)
Qya	Young alluvial-valley deposits (Holocene and late Pleistocene)

Source: Preliminary Geology Map of the San Bernardino 30' X 60' Quadrangle, Morton, Douglas M. and Miller, Fred K.. 2003, 1:100,000

N

1 0 1 2 3 4 5 6 7 MILES

1 0 1 2 3 4 5 6 7 KILOMETERS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 THOUSAND FEET

Regional Geologic Map

Upland 76
1400 East Arrow Highway
Upland, California

Figure 4

RMA Job No:	21G-0337
Report Date:	7/2021
Prepared By:	mbk

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APPENDIX A

FIELD INVESTIGATION

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APPENDIX A

FIELD INVESTIGATION

A-1.00 FIELD EXPLORATION

A-1.01 Number of Borings

Our subsurface investigation consisted of four (4) hollow stem boring auger to depths of up to 31.5 feet.

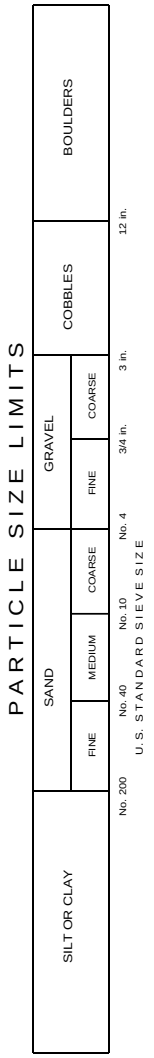
A-1.02 Location of Boring

A Site Plan and Geologic Map showing the approximate locations of the borings is presented as Figure 2.

A-1.03 Boring Logging

Logs of the boring were prepared by one of our staff and are attached in this appendix. The logs contain factual information and interpretation of subsurface conditions between samples. The strata indicated on these logs represent the approximate boundary between earth units and the transition may be gradual. The logs show subsurface conditions at the dates and locations indicated, and may not be representative of subsurface conditions at other locations and times.

Identification of the soils encountered during the subsurface exploration was made using the field identification procedure of the Unified Soils Classification System (ASTM D2488). A legend indicating the symbols and definitions used in this classification system and a legend defining the terms used in describing the relative compaction, consistency or firmness of the soil are attached in this appendix. Bag samples of the major earth units were obtained for laboratory inspection and testing.



MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size.	CLEAN GRAVELS (Little or no fines)	GW	Well graded gravel, gravel-sand mixtures. little or no fines.
			GP	Poorly graded gravel or gravel-sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amt. of fines)	GM	Silty gravels, gravel-sand-silt mixtures.
			GC	Clayey gravels, gravel-sand-clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 sieve size)	CLEAN SANDS (Little or no fines)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amount of fines)	SM	Silty sands, sand-silt mixtures.
			SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size)	SILTS AND CLAYS (Liquid limit LESS than 50)		ML	Inorganic silts and very fine sands, rock flour silty or clayey fine sands or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid limit GREATER than 50)		MH	Inorganic silts, micaceous or diatamaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

UNIFIED SOIL CLASSIFICATION SYSTEM

I. SOIL STRENGTH/DENSITY

BASED ON STANDARD PENETRATION TESTS

Compactness of sand		Consistency of clay	
Penetration Resistance N (blows/Ft)	Compactness	Penetration Resistance N (blows/ft)	Consistency
0-4	Very Loose	<2	Very Soft
4-10	Loose	2-4	Soft
10-30	Medium Dense	4-8	Medium Stiff
30-50	Dense	8-15	Stiff
>50	Very Dense	15-30	Very Stiff
		>30	Hard

N = Number of blows of 140 lb. weight falling 30 in. to drive 2-in OD sampler 1 ft.

BASED ON RELATIVE COMPACTION

Compactness of sand		Consistency of clay	
% Compaction	Compactness	% Compaction	Consistency
<75	Loose	<80	Soft
75-83	Medium Dense	80-85	Medium Stiff
83-90	Dense	85-90	Stiff
>90	Very Dense	>90	Very Stiff

II. SOIL MOISTURE

Moisture of sands		Moisture of clays	
% Moisture	Description	% Moisture	Description
<5%	Dry	<12%	Dry
5-12%	Moist	12-20%	Moist
>12%	Very Moist	>20%	Very Moist, wet

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9854 Glenoaks Blvd., Sun Valley, CA 91352

BORING NUMBER 1

Client: Century Communities | Project Name: Upland 76

Project Number: 21G-0337-0 | Project Location: 1400 E. Arrow Hwy, Upland, CA

Date Started: 6/19/2021 | Completed: 6/19/2021 | Ground Elevation (ft): 1227* | Boring Diameter: 8"

Excavation Method: Hollowstem Auger | Ground Water Levels:

Drilling Contractor: Choice Drilling: Sam and Bradley | Notes: Lattitude/Longitude:34.0988509/-117.6308970*

Logged By: mbk | Checked By: hl | 140 lbs Auto Hammer with 30" Drop

* Google Earth

Material Description

Thin Wall Tube | 2.5" Ring Sample | Bulk Sample | Standard Split Spoon Sample | Static Water Table

Depth (ft)	Drive Sample	Blow Count (N Value)	Bulk Sample	Moisture Content (%)	Dry Unit Weight (pcf)	Wet Unit Weight (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Material Description	<#200	D_{50}	USCS Classification
										Asphalt: 1.5-2" thick **Artificial Fill (af):** Medium yellow brown fine Silty SAND with trace Clay, slightly micaceous, slightly moist, medium dense			SM
										@ 0.5' cobble 9"x8"x6" and brick paver			
		6,7,8		7.2	114.2	122.5				**Young Alluvial Fan Deposits (Qyf5):** Medium yellow brown fine Silty SAND with fine Gravel, slightly micaceous, moist, medium dense			SM
5		11,12,15								@ 3' Same as above, moist, medium dense			
										@ 5' Medium yellow brown gray fine Silty Sand GRAVEL, moist, medium dense			GM
		50,50/6"		0.2						@7.5' Same as above, Cobble in sample tip, sample disturbed, moist, dense			GM
10		38,42,50/5"		2.1	104.7	106.9				@ 10' Light yellow gray brown fine to coarse Gravelly Silty SAND, slightly moist, dense			SM
15		50/5"		0.6						@ 15' Light gray brown Silty Sandy GRAVEL, slightly moist, dense, sample disturbed, rock in tip			GM
20		100/6" 50/6"		0.5						@ 20' No sample returned @ 20.5' Same as above, sample disturbed, slightly moist, dense			GM
25		50/6"		2.4						@ 25' Same as above, sample disturbed, slighlty moist, dense			GM
										@ 30' Orange gray fine to medium Silty SAND with minor Gravel, slighlty moist dense			SM
30		26,30,50/6"		6.3	130.0	138.2				**Total Depth Drilled 31.5'** **No Groundwater Encountered** **Caved When Auger Pulled** **Backfilled With Cuttings And Asphalt Patched 6/19/21**			

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BORING NUMBER 2

Client: Century Communities | Project Name: Upland 76

Project Number: 21G-0337-0 | Project Location: 1400 E. Arrow Hwy, Upland, CA

Date Started: 6/19/2021 | Completed: 6/19/2021 | Ground Elevation (ft): 1222* | Boring Diameter: 8"

Excavation Method: Hollowstem Auger | Ground Water Levels:

Drilling Contractor: Choice Drilling: Sam and Bradley | Notes: Lattitude/Longitude:34.0984076/-117.6316100*

Logged By: mbk | Checked By: hl | 140 lbs Auto Hammer with 30" Drop

* Google Earth

Material Description

Thin Wall Tube | 2.5" Ring Sample | Bulk Sample | Standard Split Spoon Sample | Static Water Table

Depth (ft)	Drive Sample	Blow Count (N Value)	Bulk Sample	Moisture Content (%)	Dry Unit Weight (pcf)	Wet Unit Weight (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Material Description	<#200	D_{50}	USCS Classification
										Asphalt: 2" thick **Artificial Fill (af):** Medium yellow brown fine Silty SAND with minor Gravel, slightly micaceous, slightly moist, medium dense			SM
										Young Alluvial Fan Deposits (Qyf5): Medium yellow brown fine Gravelly Silty SAND, subrounded clasts, moist, medium dense			SM
		50/6"		5.3						@ 3' Same as above, moist, medium dense			
5		13,15,25		2.1	118.9	122				@ 5' Light yellow gray fine to medium SAND with Silt, slightly moist, medium dense			SP
		60/6"		2.5						@7.5' Same as above, sample disturbed, slightly moist, dense			SP
10		25,27,26		3.8						@ 10' Light brown gray Gravelly fine to medium SAND with Silt, slightly moist, dense			SW
15		100/6"		4.2						@ 15' Light brown gray Gravelly fine to medium SAND, slightly moist, dense			SW

Total Depth Drilled 15.5'

No Groundwater Encountered

Caved When Auger Pulled

Backfilled With Cuttings And Asphalt Patched 6/19/21

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BORING NUMBER 3

Client: Century Communities | Project Name: Upland 76

Project Number: 21G-0337-0 | Project Location: 1400 E. Arrow Hwy, Upland, CA

Date Started: 6/19/2021 | Completed: 6/19/2021 | Ground Elevation (ft): 1227* | Boring Diameter: 8"

Excavation Method: Hollowstem Auger | Ground Water Levels:

Drilling Contractor: Choice Drilling: Sam and Bradley | Notes: Lattitude/Longitude:34.0988509/-117.6308970*

Logged By: mbk | Checked By: hl | 140 lbs Auto Hammer with 30" Drop

* Google Maps

Depth (ft)	Drive Sample	Blow Count (N Value)	Bulk Sample	Moisture Content (%)	Dry Unit Weight (pcf)	Wet Unit Weight (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Material Description	<#200	D_{50}	USCS Classification
										Asphalt: 3.5" thick **Artificial Fill (af):** Medium yellow brown fine Silty SAND with minor Gravel and trace Clay, slightly micaceous, slightly moist, medium dense			SM
		20,22,35		6.8	126.6	135.1				**Young Alluvial Fan Deposits (Qyf5):** Medium yellow brown fine Silty SAND with fine Gravel, slightly micaceous, moist, medium dense			SM
5		48/30,27		3.7	127.3	132				@ 3' Same as above, moist, medium dense			
										@ 5' Medium yellow brown gray fine Silty Sand GRAVEL, moist, medium dense			GM
		50/50/4"								@7.5' Same as above, Cobble in sample tip, sample disturbed, moist, dense			GM
10		31/50/3"		3.4	130.6	135				@ 10' Light yellow gray brown fine to coarse Gravelly Silty SAND, slightly moist, dense			SM
15		40,50/3"		4.2						@ 15' Light gray brown Silty Sandy GRAVEL, slightly moist, dense, sample disturbed, rock in tip			GM
20		35,25,27								@ 20' No sample returned			GM
25		70/6"		2.6	118.9	122				@ 25' Same as above, sample disturbed, slighlty moist, dense			GM
30		50,50/2"								@ 30' Orange gray fine to medium Silty SAND with minor Gravel, slighlty moist dense			SM

Total Depth Drilled 30'

No Groundwater Encountered

Caved When Auger Pulled

Backfilled With Cuttings And Asphalt Patched 6/19/21

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BORING NUMBER 4

Client: Century Communities | Project Name: Upland 76

Project Number: 21G-0337-0 | Project Location: 1400 E. Arrow Hwy, Upland, CA

Date Started: 6/19/2021 | Completed: 6/19/2021 | Ground Elevation (ft): 1218* | Boring Diameter: 8"

Excavation Method: Hollowstem Auger | Ground Water Levels:

Drilling Contractor: Choice Drilling: Sam and Bradley | Notes: Lattitude/Longitude:34.0992679/-117.6315517*

Logged By: mbk | Checked By: hl | 140 lbs Auto Hammer with 30" Drop

* Google Maps

Depth (ft)	Drive Sample	Blow Count (N Value)	Bulk Sample	Moisture Content (%)	Dry Unit Weight (pcf)	Wet Unit Weight (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Material Description	<#200	D_{50}	USCS Classification
										Asphalt: 1.5" thick **Artificial Fill (af):** Medium gray brown fine Silty SAND with minor Gravel and trace Clay, slightly moist, medium dense			SM
		7,10,14		3.1						**Young Alluvial Fan Deposits (Qyf5):** Medium gray brown fine Silty SAND with minor fine Gravel, moist, medium dense			SM
5		25,50/5"		4.2	110.4	115				@ 5' Medium gray brown fine Silty Sand GRAVEL, slighlty moist, dense			GM
										Total Depth Drilled 6.5'			
										No Groundwater Encountered			
										Caved When Auger Pulled			
										Backfilled With Cuttings And Asphalt Patched 6/19/21			
10													
15													
20													
25													
30													

Material Description

Thin Wall Tube | 2.5" Ring Sample | Bulk Sample | Standard Split Spoon Sample | Static Water Table

APPENDIX B

LABORATORY TESTS

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APPENDIX B

B-1.00 LABORATORY TESTS

B-1.01 Maximum Density

Maximum density - optimum moisture relationships for the major soil type encountered during the field exploration were performed in the laboratory using the standard procedures of ASTM D1557.

B-1.02 Expansion Tests

Expansion index tests were performed on representative samples of the soil types present during grading by the test methods outlined in ASTM D4829.

B-1.03 Moisture Determination

Moisture content of the soil samples was performed in accordance to standard method for determination of water content of soil by drying oven, ASTM D2216. The mass of material remaining after oven drying is used as the mass of the solid particles.

B-1.04 Density of Split-Barrel Samples

The density of ring and tube samples, which were obtained using a split-barrel sampler, were determined in accordance with ASTM D2937. The results of these tests are provided on the boring logs in Appendix A.

B-1.05 Soluble Sulfates

A test was performed on representative sample encountered during the investigation using the California Test Method 417.

B-1.06 Soil Reactivity (pH) and Minimum Resistivity

A near-surface soil samples were tested for soil reactivity (pH) and minimum electrical resistivity using California Test Method 643. The pH measurement determines the degree of acidity or alkalinity in the soils. The minimum resistivity is used as an indicator of how corrosive the soil is relative to buried metallic items.

B-1.07 Direct Shear

One direct shear test was performed, one on a remolded soil sample of the earth materials encountered in the test holes using the standard test method of ASTM D3080 (consolidated and drained). The shear test was performed on a direct shear machine of the strain-controlled type. To simulate possible adverse field conditions, the samples were saturated prior to shearing. The sample was sheared at varying normal loads and the results plotted to establish the angle of the internal friction and cohesion of the tested samples. Graphic representations of the result is included in this section.

B-1.08 Test Results

Test results for all laboratory tests performed on the subject project are presented in this appendix. For a sample-by-sample description, see the logs presented in Appendix A.

MAXIMUM DENSITY - OPTIMUM MOISTURE

(Test Method: ASTM D1557)

Sample Number	Optimum Moisture (Percent)	Maximum Density (lbs/ft^3)
B1 @ 0-5 ft	8.9	131.7

EXPANSION TEST

Test Method: ASTM D4829

Sample Number	Expansion Index	Expansion Classification
B2 at 0-5 ft	0	Very Low

SOLUBLE SULFATES

(California Test Methods: 417 & 422)

Sample Number	Soluble Sulfate (ppm)	Chloride Content (ppm)
B2 @ 0-5 ft	189	91

SOIL REACTIVITY (pH) AND MINIMUM RESISTIVITY

(California Test Method: 643)

Sample Number	pH	Minimum Resistivity (Ohm-cm)
B2 @ 5 ft	7.3	15,000

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DIRECT SHEAR TEST
ASTM D3080

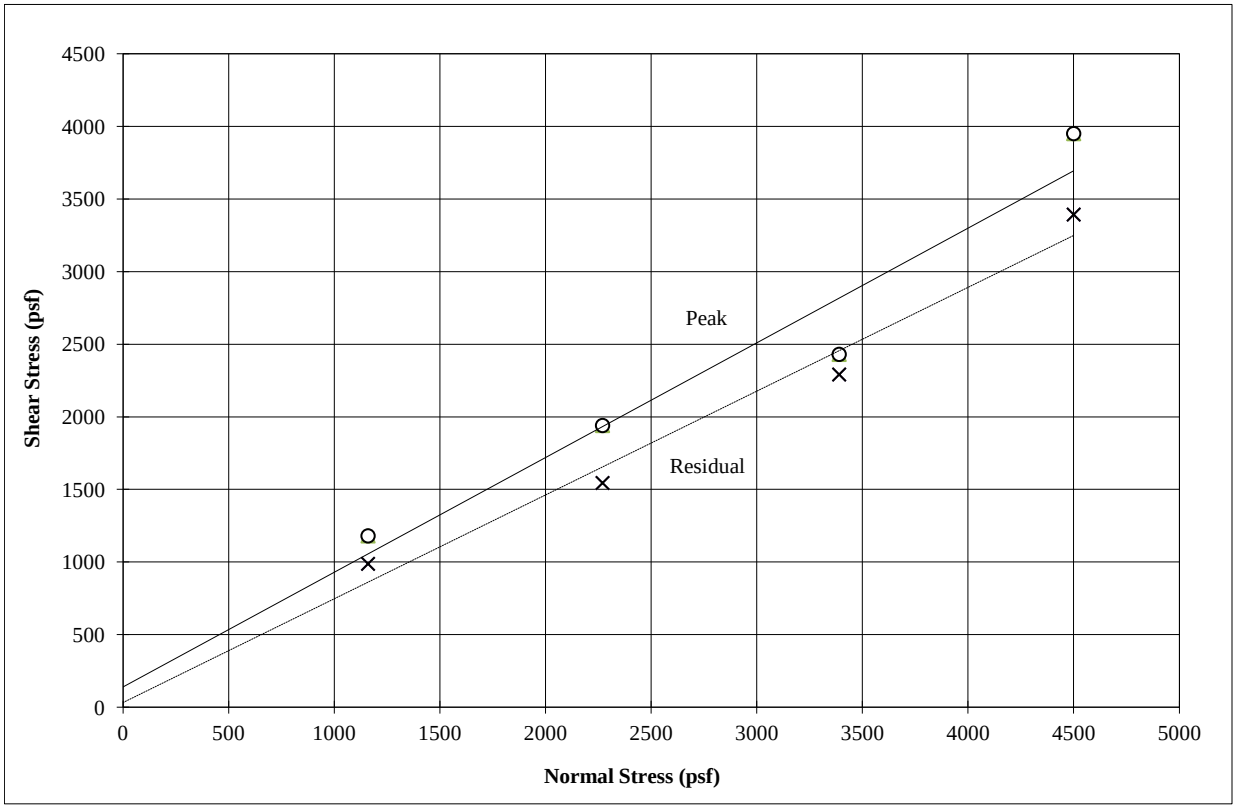
Project ID: 21G-0337-0
Location: B1
Depth: 0-5 feet
Soil Description: Silty Sand with gravel

Remolded or Undisturbed: Undisturbed
Maximum Dry Density (pcf) = N/A
Optimum Moisture Content (%) = N/A
Initial Dry Density (pcf) = 119.3
Relative Compaction (%) = N/A
Initial Moisture Content (%) = 6.7%
Final Moisture Content (%) = 15.9%

Diameter (in)	2.41
Area of sample (in^2)	4.56
Load Ring Constant (lb/in)	4010

Load Applied (g)	Normal Pressure (psf)	Peak		Residual	
		Dial Reading	Shear Resist (psf)	Dial Reading	Shear Resist (psf)
16615	1160	0.0093	1180	0.0078	987
32600	2270	0.0153	1940	0.0122	1544
48674	3390	0.0192	2430	0.0181	2291
64681	4500	0.0312	3950	0.0268	3392

	Peak	Residual
Cohesion (psf) =	140	30
Friction Angle (deg) =	38	36



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APPENDIX C

GENERAL EARTHWORK
AND
GRADING SPECIFICATIONS

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GENERAL EARTHWORK AND GRADING SPECIFICATIONS

C-1.00 GENERAL DESCRIPTION

C-1.01 Introduction

These specifications present our general recommendations for earthwork and grading as shown on the approved grading plans for the subject project. These specifications shall cover all clearing and grubbing, removal of existing structures, preparation of land to be filled, filling of the land, spreading, compaction and control of the fill, and all subsidiary work necessary to complete the grading of the filled areas to conform with the lines, grades and slopes as shown on the approved plans.

The recommendations contained in the geotechnical report of which these general specifications are a part of shall supersede the provisions contained hereinafter in case of conflict.

C-1.02 Laboratory Standard and Field Test Methods

The laboratory standard used to establish the maximum density and optimum moisture shall be ASTM D1557.

The insitu density of earth materials (field compaction tests) shall be determined by the sand cone method (ASTM D1556), direct transmission nuclear method (ASTM D2922) or other test methods as considered appropriate by the geotechnical consultant.

Relative compaction is defined, for purposes of these specifications, as the ratio of the in-place density to the maximum density as determined in the previously mentioned laboratory standard.

C-2.00 Clearing

C-2.01 Surface Clearing

All structures marked for removal, timber, logs, trees, brush and other rubbish shall be removed and disposed of off the site. Any trees to be removed shall be pulled in such a manner so as to remove as much of the root system as possible.

C-2.02 Subsurface Removals

A thorough search should be made for possible underground storage tanks and/or septic tanks and cesspools. If found, tanks should be removed and cesspools pumped dry.

Any concrete irrigation lines shall be crushed in place and all metal underground lines shall be removed from the site.

C-2.03 Backfill of Cavities

All cavities created or exposed during clearing and grubbing operations or by previous use of the site shall be cleared of deleterious material and backfilled with native soils or other materials approved by the soil engineer. Said backfill shall be compacted to a minimum of 90% relative compaction.

C-3.00 ORIGINAL GROUND PREPARATION

C-3.01 Stripping of Vegetation

After the site has been properly cleared, all vegetation and topsoil containing the root systems of former vegetation shall be stripped from areas to be graded. Materials removed in this stripping process may be used as fill in areas designated by the soil engineer, provided the vegetation is mixed with a sufficient amount of soil to assure that no appreciable settlement or other detriment will occur due to decaying of the organic matter. Soil materials containing more than 3% organics shall not be used as structural fill.

C-3.02 Removals of Non-Engineered Fills

Any non-engineered fills encountered during grading shall be completely removed and the underlying ground shall be prepared in accordance to the recommendations for original ground preparation contained in this section. After cleansing of any organic matter the fill material may be used for engineered fill.

C-3.03 Overexcavation of Fill Areas

The existing ground in all areas determined to be satisfactory for the support of fills shall be scarified to a minimum depth of 6 inches. Scarification shall continue until the soils are broken down and free from lumps or clods and until the scarified zone is uniform. The moisture content of the scarified zone shall be adjusted to within 2% of optimum moisture. The scarified zone shall then be uniformly compacted to 90% relative compaction.

Where fill material is to be placed on ground with slopes steeper than 5:1 (H:V) the sloping ground shall be benched. The lowermost bench shall be a minimum of 15 feet wide, shall be a minimum of 2 feet deep, and shall expose firm material as determined by the geotechnical consultant. Other benches shall be excavated to firm material as determined by the geotechnical consultant and shall have a minimum width of 4 feet.

Existing ground that is determined to be unsatisfactory for the support of fills shall be overexcavated in accordance to the recommendations contained in the geotechnical report of which these general specifications are a part.

C-4.00 FILL MATERIALS

C-4.01 General

Materials for the fill shall be free from vegetable matter and other deleterious substances, shall not contain rocks or lumps of a greater dimension than is recommended by the geotechnical consultant, and shall be approved by the geotechnical consultant. Soils of poor gradation, expansion, or strength properties shall be placed in areas designated by the geotechnical consultant or shall be mixed with other soils providing satisfactory fill material.

C-4.02 Oversize Material

Oversize material, rock, or other irreducible material with a maximum dimension greater than 12 inches shall not be placed in fills, unless the location, materials, and disposal methods are specifically approved by the geotechnical consultant. Oversize material shall be placed in such a manner that nesting of oversize material does not occur and in such a manner that the oversize material is completely surrounded by fill material compacted to a minimum of 90% relative compaction. Oversize material shall not be placed within 10 feet of finished grade without the approval

of the geotechnical consultant.

C-4.03 Import

Material imported to the site shall conform to the requirements of Section 4.01 of these specifications. Potential import material shall be approved by the geotechnical consultant prior to importation to the subject site.

C-5.00 PLACING AND SPREADING OF FILL

C-5.01 Fill Lifts

The selected fill material shall be placed in nearly horizontal layers which when compacted will not exceed approximately 6 inches in thickness. Thicker lifts may be placed if testing indicates the compaction procedures are such that the required compaction is being achieved and the geotechnical consultant approves their use.
Each layer shall be spread evenly and shall be thoroughly blade mixed during the spreading to insure uniformity of material in each layer.

C-5.02 Fill Moisture

When the moisture content of the fill material is below that recommended by the soils engineer, water shall then be added until he moisture content is as specified to assure thorough bonding during the compacting process.

When the moisture content of the fill material is above that recommended by the soils engineer, the fill material shall be aerated by blading or other satisfactory methods until the moisture content is as specified.

C-5.03 Fill Compaction

After each layer has been placed, mixed, and spread evenly, it shall be thoroughly compacted to not less than 90% relative compaction. Compaction shall be by sheepsfoot rollers, multiple-wheel pneumatic tired rollers, or other types approved by the soil engineer.

Rolling shall be accomplished while the fill material is at the specified moisture content. Rolling of each layer shall be continuous over its entire area and the roller shall make sufficient trips to insure that the desired density has been obtained.

C-5.04 Fill Slopes

Fill slopes shall be compacted by means of sheepsfoot rollers or other suitable equipment. Compacting of the slopes may be done progressively in increments of 3 to 4 feet in fill height. At the completion of grading, the slope face shall be compacted to a minimum of 90% relative compaction. This may require track rolling or rolling with a grid roller attached to a tractor mounted side-boom.

Slopes may be over filled and cut back in such a manner that the exposed slope faces are compacted to a minimum of 90% relative compaction.

The fill operation shall be continued in six inch (6") compacted layers, or as specified above, until the fill has been

brought to the finished slopes and grades as shown on the accepted plans.

C-5.05 Compaction Testing

Field density tests shall be made by the geotechnical consultant of the compaction of each layer of fill. Density tests shall be made at locations selected by the geotechnical consultant.

Frequency of field density tests shall be not less than one test for each 2.0 feet of fill height and at least every one thousand cubic yards of fill. Where fill slopes exceed four feet in height their finished faces shall be tested at a frequency of one test for each 1000 square feet of slope face.

Where sheepsfoot rollers are used, the soil may be disturbed to a depth of several inches. Density reading shall be taken in the compacted material below the disturbed surface. When these readings indicate that the density of any layer of fill or portion thereof is below the required density, the particular layer or portion shall be reworked until the required density has been obtained.

C-6.00 SUBDRAINS

C-6.01 Subdrain Material

Subdrains shall be constructed of a minimum 4-inch diameter pipe encased in a suitable filter material. The subdrain pipe shall be Schedule 40 Acrylonitrile Butadiene Styrene (ABS) or Schedule 40 Polyvinyl Chloride Plastic (PVC) pipe or approved equivalent. Subdrain pipe shall be installed with perforations down. Filter material shall consist of 3/4" to 1 1/2" clean gravel wrapped in an envelope of filter fabric consisting of Mirafi 140N or approved equivalent.

C-6.02 Subdrain Installation

Subdrain systems, if required, shall be installed in approved ground to conform the approximate alignment and details shown on the plans or herein. The subdrain locations shall not be changed or modified without the approval of the geotechnical consultant. The geotechnical consultant may recommend and direct changes in the subdrain line, grade or material upon approval by the design civil engineer and the appropriate governmental agencies.

C-7.00 EXCAVATIONS

C-7.01 General

Excavations and cut slopes shall be examined by the geotechnical consultant. If determined necessary by the geotechnical consultant, further excavation or overexcavation and refilling of overexcavated areas shall be performed, and/or remedial grading of cut slopes shall be performed.

C-7.02 Fill-Over-Cut Slopes

Where fill-over-cut slopes are to be graded the cut portion of the slope shall be made and approved by the geotechnical consultant prior to placement of materials for construction of the fill portion of the slope.

C-8.00 TRENCH BACKFILL

C-8.01 General

Trench backfill within street right of ways shall be compacted to 90% relative compaction as determined by the ASTM D1557 test method. Backfill may be jetted as a means of initial compaction; however, mechanical compaction will be required to obtain the required percentage of relative compaction. If trenches are jetted, there must be a suitable delay for drainage of excess water before mechanical compaction is applied.

C-9.00 SEASONAL LIMITS

C-9.01 General

No fill material shall be placed, spread or rolled while it is frozen or thawing or during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until field tests by the soils engineer indicate that the moisture content and density of the fill are as previously specified.

C-10.00 SUPERVISION

C-10.01 Prior to Grading

The site shall be observed by the geotechnical consultant upon completion of clearing and grubbing, prior to the preparation of any original ground for preparation of fill.

The supervisor of the grading contractor and the field representative of the geotechnical consultant shall have a meeting and discuss the geotechnical aspects of the earthwork prior to commencement of grading.

C-10.02 During Grading

Site preparation of all areas to receive fill shall be tested and approved by the geotechnical consultant prior to the placement of any fill.

The geotechnical consultant or his representative shall observe the fill and compaction operations so that he can provide an opinion regarding the conformance of the work to the recommendations

APPENDIX D

REFERENCES

REFERENCES

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IS/MND Appendix D

Environmental Site Assessments

HILLMANN
CONSULTING

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1400 East Arrow Highway
Upland, California 92672

Prepared For:

The Landmark Company
118 W. Avenida Santiago
San Clemente, California 92672

May 24, 2021

Hillmann Project Number C3-8412

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May 24, 2021

Mr. Jeff Ragland
The Landmark Company
118 W. Avenida Santiago
San Clemente, California 92672

RE: Phase I Environmental Site Assessment
1400 East Arrow Highway
Upland, California 92672
Hillmann Project No: C3-8412

Dear Mr. Ragland:

Hillmann Consulting LLC is pleased to provide the results of our Phase I Environmental Site Assessment of the above referenced property. This assessment was performed in general accordance with the scope and limitations of ASTM Practice E-1527-13, which is the latest version of the E-1527 standard published by the ASTM.

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

Sincerely,

Hillmann Consulting, LLC

Davis Tang
Environmental Scientist

Ryan Terwilliger
West Coast Operations Manager

TABLE OF CONTENTS

1.0 FINDINGS, OPINIONS, AND CONCLUSIONS 1
1.1 Summary of Project Details 1
1.2 Findings Summary Table 2
1.3 Findings and Conclusions 2
1.4 Business Environmental Risks / Non-ASTM Scope 4

2.0 INTRODUCTION 5
2.1 Purpose and Scope 5
2.2 Property Location/Legal Description 7
2.3 Data Gaps 7
2.4 User Reliance 8
2.5 Significant Assumptions 8
2.6 General Limitations and Exceptions 8

3.0 USER PROVIDED INFORMATION 11
3.1 Prior Environmental Reports/Documentation 11
3.2 User Questionnaire 11
3.3 Reason for Performing Phase I ESA 12

4.0 RECORDS REVIEW 13
4.1 Physical Setting Sources 13
4.2 Historical Use – Property and Adjoining Properties 13
4.3 Standard Environmental Record Sources 18
4.4 Additional Environmental Record Sources 23

5.0 SITE RECONNAISSANCE 25
5.1 Methodology and Limiting Conditions 25
5.2 General Site Setting 25
5.3 Interior & Exterior Observations 26

6.0 INTERVIEWS 30
6.1 Interviews with Past and Present Owners and Occupants 30
6.2 Interviews with State and/or Local Government Officials 30

7.0 BUSINESS ENVIRONMENTAL RISKS 31
7.1 Asbestos-Containing Material (ACM) 31
7.2 Lead-Based Paint 31
7.3 Radon 31
7.4 Mold/Microbial Damage 31
7.5 NWI Mapped Wetlands 32
7.6 Lead in Drinking Water 32

8.0 REFERENCES 33

9.0 APPENDICES 34
Appendix A Site Diagram/Vicinity Map
Appendix B Site Photographs
Appendix C Questionnaires / User Provided Information
Appendix D Historical Records Documentation
Appendix E Regulatory Records Documentation
Appendix F Other Documents / Lab Results
Appendix G Project Personnel Qualifications

List of Abbreviations/Acronyms

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

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

1.0 FINDINGS, OPINIONS, AND CONCLUSIONS

Hillmann Consulting, LLC (Hillmann) performed a Phase I Environmental Site Assessment (ESA) of 1400 East Arrow Highway, Upland, California (the Property). The assessment has been conducted in accordance with our contracted scope of work and the ASTM Standard Practice E-1527-13 for Phase I Environmental Site Assessments and All Appropriate Inquiries (AAI) Final Rule 40 CFR Part 312. This section contains a summary of findings, opinions and conclusions made by this assessment. However, this section, alone, does not constitute the complete assessment. The report must be read in its entirety.

1.1 Summary of Project Details

Primary Street Address:		1400 East Arrow Highway			
City:	Upland	**County:**	San Bernardino	**State:**	California
Tax ID/Parcel Number:		1046-481-14			
Property Owner:		John Frank Jenkins			
Zoning Designation:		Light Industrial			
Approx. Property Area:		4.93 Acres			
Buildings/# of Floors		Four buildings / single / two-stories and five canopies			
Approx. Building Area:		Building A – 2,200 SF; Building B – 1,150 SF; Building C – 6,400 SF; and Building D – 17,500			
Approx. Year Built:		1956			
Commercial Occupants:		Arrow Truss Co.			
Current Use:		Wooden truss manufacturing, sawmill			
Prior Uses:		Lumber yard and sawmill			
Inspected By:		Mr. Davis Tang			
Site Contact/Company:		Mr. Jeff Ragland / The Landmark Company			
Site Escort/Company:		Mr. John Jenkins / Property Owner Mr. Jeff Ragland / The Landmark Company			
Inspection Date:		May 18, 2021			
Weather Conditions:		Overcast, 68 ºF			

1.2 Findings Summary Table

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

1.3 Findings, Opinions and Conclusions

1.3.1 Recognized Environmental Conditions

Hillmann has performed a Phase I Environmental Site Assessment in accordance with the scope and limitations of ASTM Practice E-1527-13 of the Property as described in Section 2 of this report. Any additions to, exceptions to, or deletions from this practice are also described in Section 2 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the Property, except for the following:

RECOGNIZED ENVIRONMENTAL CONDITIONS	
REC #1	A former 1,000-gallon gasoline UST installed in 1956 and a former 1,000-gallon UST diesel UST installed in 1979 were reportedly removed in the 1980s under oversight by the San Bernardino County Fire Department. The former USTs along with a dispenser were located north of the storage sheds at the central portion of the Property. What appeared to be vent piping or other associated piping was observed in the location at the time of the site reconnaissance. Mr. John Jenkins, the Property owner does not currently retain documentation related to the removal of the USTs. Given the absence of documentation, the former USTs may represent a REC in connection with the Property.
REC #2	A railroad spur is present along the northern portion of the Property. Railroad spurs are associated with the use of pesticides for weed control, which may have accumulated in rail bed area. Therefore, the spur is considered to be a REC.
REC #3	Historical and current operations of various machinery associated with a sawmill have utilized various oils, lubricants, and transmission fluids, and have contributed to stained pavement throughout the Property. The various sawmill machinery is located beneath each canopy. The historical operations may have negatively impacted the subsurface through various cracks in the concrete pavement and is considered to be a REC.

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS	
	No HRECs were identified.
CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS	
	No CRECs were identified.
SIGNIFICANT DATA GAPS	
	No SDGs were identified.

1.3.2 REC Response Action Recommendations

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

REC RESPONSE ACTION SUMMARY TABLE	
REC	**Response Action**
REC #1	A file review should be conducted at the San Bernardino County Fire Department to verify the removal of the USTs and the confirmation soil sampling results. Depending on the availability and content of records, subsurface testing of the former UST and dispenser area may also be warranted prior to redevelopment.
REC #2 & 3	A limited Phase II investigation is recommended to determine whether the historical operations of a sawmill and presence of the railroad spur have negatively impacted the Property.

1.3.3 Notable Environmental Conditions / De Minimis Conditions

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

NOTABLE ENVIRONMENTAL CONDITIONS / DE MINIMIS CONDITIONS	
1.	Two of the three small storage sheds at the central portion of the Property were locked and unable to be accessed. However, the sheds reportedly store furniture, documents, and other miscellaneous materials. The inaccessible sheds are not considered to be a significant data gap and is not considered to be a REC.
2.	No hazardous substance or petroleum product drums were noted on the Property. However, several empty drums utilized for general trash containers were observed on the Property.
3.	Several 10-pound propane tanks associated with forklifts were observed on the Property. No evidence of spills or leaks were observed.
4.	A 72-gallon gasoline AST was observed on the western side of the Property, no evidence of spills or leaks associated with the AST was observed.
5.	A utility owned pole-mounted electrical transformer was noted at the north central portion of the Property. No evidence of leaks or staining was observed and it is not considered to be a REC.
6.	According to Mr. Jenkins, a former septic system is located south of Building A and was disconnected in 2000 when the Property was connected to the municipal sewer and the septic system was abandoned in place.

1.3.4 Environmental Professional Statement

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

David Rutherford
Environmental Professional

1.4 Business Environmental Risks / Non-ASTM Scope

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

BUSINESS ENVIRONMENTAL RISKS / NON-ASTM SCOPE			
Subject	**Findings**	**Not Appl.**	**Rpt. Ref.**
Asbestos	Suspected ACM noted within the accessed building areas included suspended ceiling panels, wallboard / joint compound, vinyl cove base, vinyl flooring and mastics.		7.1
Lead Paint	No residential buildings were present at the Property.	X	7.2
Radon	Property is located in the USEPA radon designation Zone 2 or 'moderate risk' area for radon.		7.3
Mold / Microbial Damage	Hillmann did not observe evidence of significant problems with moisture intrusion or mold/microbial growth at the Property.		7.4
NWI Wetlands	No mapped wetland areas were depicted at the Property.		7.5
Lead in Drinking Water	Potable water service at the Property is provided by a utility connection with the City of Upland Public Works Water Department. A recently published water quality report from the utility indicated compliance with USEPA water quality standards for lead in drinking water. A copy of the report has been attached in Appendix F.		7.6

2.0 INTRODUCTION

2.1 Purpose and Scope

This assessment was conducted utilizing generally accepted Phase I ESA industry standards in accordance with the ASTM Standard Practice E-1527-13. The ASTM describes these methodologies as representing good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the "landowner liability protections," or "LLPs"): that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35) (B). The primary goal of the processes established by ASTM E-1527-13 is to identify *recognized environmental conditions* in connection with the Property.

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

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

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

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

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

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

- Interviews of past and present owners and occupants and state and local government officials, seeking information related to the potential presence of RECs at the Property.

- A review of standard physical record sources for available topographic, geologic and groundwater data.

- A review of standard historic record sources, such as fire insurance maps, city directories, aerial photographs, prior reports and interviews, etc., to determine prior uses of the Property from the present, back to the Property's first developed use, or back to 1940, whichever is earlier.

- A review of standard environmental record sources including federal and state environmental databases, and additional environmental record sources, to identify potential regulatory concerns with the Property, adjoining properties and properties located within the surrounding area.

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

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

2.1.1 Business Environmental Risks/Non-ASTM Scope Considerations

In accordance with our contract agreement, Hillmann may have addressed the following potential environmental subject matters that are outside of the requirements of the ASTM E-1527-13 standard:

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

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

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

Mold/Microbial Damage: A cursory non-intrusive visual screening within the accessed areas of buildings on the Property for evidence of systemic microbial problems, including visible mold growth, water damaged building materials or musty odors. It is emphasized that this cursory non-intrusive visual screening does not constitute a comprehensive survey for moisture/mold/microbial damage. A more comprehensive inspection should be sought by the report User(s) if more certainty is desired regarding the potential for moisture/mold/microbial damages at the Property.

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

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

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

2.2 Property Location/Legal Description

Property location and legal description details are described as follows:

Primary Street Address:	1400 East Arrow Highway				
City:	Upland	**County:**	San Bernardino	**State:**	California
Tax ID/Parcel Number:	1046-481-14				
Approx. Land Area:	4.93 Acres				
Apprx. Latitude/Longitude:	North 34.098573 degrees/West - 117.631375 degrees				
Additional Details (if appl.):	NA				
Property Owner:	John Frank Jenkins				
Zoning Designation:	Light Industrial				

2.3 Data Gaps

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

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

2.4 User Reliance

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

2.5 Significant Assumptions

The following significant assumptions are made:

- The site operations at the time of the site visit are assumed to reflect typical site conditions relative to potential environmental conditions and that no concealment of environmental conditions or releases by site owners or occupants has occurred. Likewise, it is assumed that no areas of the Property with potential environmental concerns or RECs were concealed or otherwise not reported, intentionally or unknowingly, by the Property owners/occupants and/or site escort at the time of the site visit.

- For the purpose of estimating the approximate direction of groundwater flow in the absence of site specific groundwater data, unless indicated otherwise, an assumption has been made that the gradient of groundwater flow follows the surface topography of the Property and immediate surrounding area.

2.6 General Limitations and Exceptions

2.6.1 Limitations

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

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

2.6.2 Other Exceptions or Deletions

No other exceptions or deletions from the ASTM Standard E-1527-13 are reported.

2.6.3 Special Terms and Conditions

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

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

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

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

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

The regulatory database report provided is based on an evaluation of the data collected and compiled by a contracted data research company. The regulatory research is designed to meet the requirements of ASTM Standard E-1527-13. Hillmann can neither warrant nor guarantee the accuracy or completeness of the information obtained from the regulatory database report provider during the course of this assessment.

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

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

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

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

The ASTM E-1527-13 standard states that recommendations are not required to be included in a Phase I ESA report; however, further that recommendations are an additional service that may be useful in the User's analysis of landowner liability protections or business environmental risks; and that the User should consider whether recommendations for additional inquiries or other services are desired.

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

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

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

3.0 USER PROVIDED INFORMATION

The term "User" is defined by ASTM as the party seeking to use Practice E-1527 to complete an environmental site assessment of the Property; specifically, the entities named on the front cover to which the report has been addressed.

3.1 Prior Environmental Reports/Documentation

No prior environmental reports/documentation were provided.

3.2 User Questionnaire

Section 6 of the ASTM E-1527-13 standard describes certain tasks required to be performed by the report User in order to qualify for landowner liability protections to CERCLA liability. To assist the report User to meet these requirements, the ASTM E-1527-13 standard recommends a questionnaire of inquiries (User Questionnaire) specified in 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31 be provided to the original report User. A User Questionnaire has been provided to the report User; however, a completed questionnaire was not returned to Hillmann.

Question:	Yes/No:	Detail:
Environmental liens that are filed or recorded against the property: Did a search of recorded land title records identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	NR	
Activity and use limitations that are in place on the property or that have been filed or recorded against the property: Did a search of recorded land title records (or judicial records where appropriate, identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	NR	
Specialized knowledge or experience of the person seeking to qualify for the LLP: Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	NR	
Relationship of the purchase price to the fair market value of the property if it were not contaminated: Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	NR	
Commonly Known or Reasonably Ascertainable Information: Are you aware of commonly known or reasonably ascertainable information about the property that would help the		

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

NR-no response

3.3 Reason for Performing Phase I ESA

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

4.0 RECORDS REVIEW

4.1 Physical Setting Sources

The following physical setting sources were reviewed:

Source	Discussion
USGS 7.5 minute Topographic Map Data: (EDR Geocheck-Physical Setting Source Addendum)	The Property lies at an elevation of approximately 1,225 feet above mean sea level. An interpretation of topographic contour lines as well as a review of the EDR Geocheck-General Topographic Gradient suggested terrain sloping downward towards the south-southeast. There is no nearby downgradient water body from the Property.
USDA SCS Soil Data: (EDR Geocheck-Physical Setting Source Addendum)	The dominant soil type at the Property is classified as "Tujunga". This soil type is described as a gravelly loamy sand surface texture with high infiltration rates. They have soils that are deep, well drained to excessively drained sands and gravels.
Geologic Data: (EDR Geocheck-Physical Setting Source Addendum)	The geologic formation in the vicinity of the Property is described as a stratified sequence of the Cenozoic Era, Quaternary System, and Quaternary Series.
Prior Env. Reports: (Section 3.1)	No prior environmental reports were obtained.
Additional Sources/ Data:	Additional physical setting data was obtained from the review of San Bernardino Fire Department records of a leaking UST case (720 E 9th St) approximately 3,000 feet west southwest and cross gradient from the Property. A case closure summary by the department indicated a depth to shallow groundwater of 540 feet below grade.
Groundwater Flow Discussion:	Based on a review of the above information as well as observation of the site, the direction of shallow groundwater flow at the site is inferred to be towards the south-southeast.
NWI Wetlands Data: (EDR Geocheck-Physical Setting Source Addendum)	No NWI mapped wetlands areas were depicted at the Property.

4.2 Historical Use – Property and Adjoining Properties

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

4.2.1 Fire Insurance Maps

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

Year(s)	Prop/Adj	Depicted Use(s)	Notable Details
1928, 1930, 1932, 1950, 1955	**Property:**	NA	The Property is not depicted
	Adjoining:	Dwellings	The surrounding areas to the north, east, and west are not depicted

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

4.2.2 City Directories

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

Property	
Use(s) / Occupant(s):	**Years**
Lumber businesses	1960-2008
Wood product businesses	2003
Residential	1938

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

Adjoining Properties	
Use and/or Occupant(s)	**Years**
R. F. White Co. Inc.	1980-2017
Petroleum Carriers	1980
Cherokee Wood Products Inc	2004-2017
Residential	1999-2017

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

4.2.3 Historical Topographic Maps

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

Year(s)	Summary	
1897, 1900, 1903	**Property:**	No improvements or significant features are depicted
	Adjoining:	No improvements or significant features are depicted
1933, 1941, 1942	**Property:**	No improvements or significant features are depicted
	Adjoining:	A railroad track is depicted to the northwest; a structure is depicted to the southeast
1944	**Property:**	A structure is depicted
	Adjoining:	A railroad track is depicted to the northwest; structures are depicted to the east, southeast, and southwest
1953, 1954	**Property:**	No improvements or significant features are depicted
	Adjoining:	A railroad track is depicted to the northwest; a structure is depicted to the northeast
1966, 1967, 1973, 1976, 1981	**Property:**	Several structures are depicted
	Adjoining:	A railroad track is depicted to the northwest; a structure is depicted to the northeast; the south is shaded, which is indicative of a developed urban area; a structure is depicted to the southwest starting in 1973
2012	**Property:**	No improvements or significant features are depicted
	Adjoining:	No improvements or significant features are depicted

4.2.4 Historical Aerial Photographs

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

Year(s)	Summary of Interpretation	
1938	**Property:**	Rural/agricultural fields
	Adjoining:	Rural/agricultural fields, an orchard, and residential uses
1949, 1953	**Property:**	Rural/agricultural fields
	Adjoining:	Undeveloped land, an orchard, and residential uses
1966, 1975	**Property:**	Portions of a lumber yard and sawmill with railroad tracks on the northern border
	Adjoining:	Portions of a lumber yard and sawmill, vacant land, and residential uses
1985, 1989, 1990, 1994, 2002	**Property:**	Portions of a lumber yard and sawmill with railroad tracks on the northern border
	Adjoining:	Portions of a lumber yard and sawmill, vacant land, light industrial uses, and residential uses
2006, 2009, 2012, 2016	**Property:**	A lumber yard and sawmill with railroad spurs on the northern border
	Adjoining:	Commercial, light industrial, and residential uses

4.2.5 EDR High-Risk Historical Records

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

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

4.2.6 Petroleum/Natural Gas Well Review

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

4.2.7 Additional Historical Data

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

Interviews/Anecdotal:	Mr. Jenkins completed an environmental questionnaire and was interviewed during the site inspection. The following information was provided by Mr. Jenkins: The Property was owned and operated by Mr. Jenkins as a lumber yard and sawmill identified as Mount Boyd Lumber as early as 1956 until 2010 when Mr. Jenkins closed the business and leased the Property to Arrow Truss Co. While in business, Mount Boyd Lumber would import pre-treated lumber. A former UST was installed at the central portion of the Property along with a dispenser for refueling purposes when the Property was developed in 1956. The UST was removed in the 1980s with oversight provided by the San Bernardino County Fire Department and reportedly no issues were identified. Mr. Jenkins did not recall the capacity of the UST and did not retain any of the environmental reports related to the UST removal.
Local Gov't Records:	No additional pertinent historical data was obtained.
Prior Env. Reports: (Section 3.1)	Not applicable; no prior reports were provided.
Site Observations:	Indications of historic uses of the Property or adjoining properties were not observed during the site reconnaissance.
Other Sources:	No additional pertinent historical data was obtained.

4.2.8 Summary of Identified Historic Uses

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

Property	
Date Range	**Use**
1930s to 1960s	Rural / agricultural fields
1966-Present	Lumberyard and sawmill

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

Adjoining Properties	
Date Range	**Use**
1938-1953	Vacant land, an orchard, and residential uses
1966-2002	Portions of a lumber yard and saw mill, light industrial (trucking), and residential uses
2006-Present	Commercial home improvement store, light industrial trucking business, and residential

4.2.9 Historical Records Data Failure

The ASTM E-1527-13 standard defines data failure as a failure to achieve the ASTM specified historical research objectives after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. The objective is to identify all obvious uses of the property from the present, back to the property's first developed use, or back to 1940, whichever is earlier. Furthermore, records of historic use/conditions should be sought in intervals no less than approximately five years, unless the property conditions appear unchanged over a longer interval.

Objective	Met?	Detail	Significant?
First developed use/date determined?	No	The earliest documented use of the Property was agricultural fields in 1938	NA

Record sources at 5-year intervals back to 1940 or first developed use?	No	Historical record gaps exceeding five years were encountered. However, significant site-use changes or undiscovered site uses appear unlikely to have occurred during the record gaps.	No
All obvious prior uses identified?	Yes	See Section 4.2.8.	NA

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

4.2.10 Historic Uses REC Discussion

The review of historical records indicated evidence of the following potential RECs in connection with the Property:

The Property operated as a lumber yard and sawmill identified from as early as 1956 until 2010. Site operations included the storage of pressure treated lumber, and the use of various oils, lubricants, and transmission fluids which may have contributed to stained pavement throughout the Property. The historical operations may have negatively impacted the subsurface through various cracks in the concrete pavement and is considered to be a REC.

Two 1,000-gallon gasoline and diesel USTs were reportedly removed in the 1980s, with oversight from the San Bernardino County Fire Department. No records of the closure were available, and the historical USTs are considered to be a REC.

A railroad spur from the northwest adjoining railroad track split is present along the northern portion of the Property. Railroad spurs are associated with the use of pesticides for weed control, which may have accumulated in rail bed area. Therefore, the spur is considered to be a REC.

4.3 Standard Environmental Record Sources

A regulatory database report, titled EDR Radius Map™ Report, prepared by Environmental Data Resources of Shelton, CT was obtained and reviewed. The report provided a search of standard environmental record sources for listings of the Property, adjoining properties and sites within the surrounding area; and has been reviewed for the purpose of identifying listings suggesting a potential impact to the Property due to presence or migration of hazardous substances and/or petroleum products. Additional descriptions of the meaning and significance of the regulatory databases can be found in the regulatory database report in Appendix E. The EDR Radius Map™ Report provided a search of the following database categories in accordance with the requirements of the ASTM Standard E-1527-13:

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

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

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

4.3.1 Supplemental Database Listings

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

4.3.2 Limited Tier I Vapor Encroachment Screening

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

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

4.3.3 Property Listings

The following listings of the Property were identified:

Name/Address:	Boyd Lumber Co.; 1400 East Arrow Highway
Database(s):	HIST UST; SWEEPS UST, CA FID UST, HWTS, HAZNET
Data Discussion:	The HIST UST database lists a former 1,000-gallon gasoline UST installed in 1956 and a former 1,000-gallon diesel UST installed in 1979. The SWEEPS UST database lists the two former USTs and the CA FID UST database lists an inactive status with Facility ID #36001690. The HWTS is a database that tracks hazardous waste transport. The HAZNET database identifies manifested waste generated in 1990, the reported wastes were waste oil and mixed oil. Based on the absence of closure documentation, the former USTs are considered to be RECs.
REC Discussion:	Based on the details provided above, a REC is suspected in connection with the Property. Additional evaluation would be required to determine whether a REC exists.
VEC Discussion:	Based on the available data, a VEC may exist. Additional evaluation would be required to confirm whether a signficant vapor intrusion impact to the Property exists.

Name/Address:	Arrow Lumber Inc.; 1400 East Arrow Highway
Database(s):	HWTS, FINDS
Data Discussion:	The HWTS is a database that tracks hazardous waste transport and does not track violators; an inactive date of June 30, 2008 is listed. The FINDS database is an information database that references the Occupational Safety and Health Administration Information System, no additional pertinent information was provided. Based on the type of listings, these are not considered to be RECs.
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.
VEC Discussion:	Based on the available data, a VEC is not suspected.

Name/Address:	Butchers Block & Building Material; 1400 East Arrow Highway
Database(s):	HWTS
Data Discussion:	The HWTS is a database that tracks hazardous waste transport and does not track violators; an inactive date of June 30, 2003 is listed. Based on the status, this listing is not considered to be a REC.
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.
VEC Discussion:	Based on the available data, a VEC is not suspected.

Name/Address:	Taconic; 1400 Arrow Highway, La Verne
Database(s):	SWEEPS UST, ICIS, US AIRS, FINDS, ECHO, WDS
Data Discussion:	It appears that EDR incorrectly mapped this listing on the Property. This listing is of a site located in the city of La Verne with a similar street address and is not associated with the Property.
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.
VEC Discussion:	Based on the available data, a VEC is not suspected.

4.3.4 Adjoining Property Listings

The following adjoining property listings were identified. Reported distances, where applicable, are approximate and indicative of the presence of a public roadway or right-of-way between the adjoining site and Property. The reported gradient has been estimated based on a number of factors including but not necessarily limited to field observation, review of topographic maps, database listing details and/or site specific geo-technical data.

Name/Address:	R. F. White Co.; 1401 East Arrow Highway				
Database(s):	LUST, RCRA-NonGen / NLR, AST, San Bernardino Co. Permit, NPDES, CIWQS, UST, HIST UST, UST, SWEEPS UST, CA FID UST, CERS, CERS TANKS, CERS HAZ WASTE, EMI, CORTESE, WDS				
Distance in feet:	Adjoining	**Direction:**	NE	**Gradient:**	Up/Cross
Data Discussion:	This site is listed on the LUST database due to impacts to only soil with gasoline. The leak was first discovered on August 10, 1993 and a remediation plan was produced and implemented in response. The LUST case received regulatory closure on May 8, 2000. Considering that only soil was impacted and eventually remediated, this LUST case is not considered to be a REC in connection with the Property. The RCRA-NonGen / NLR indicates this site was a non-generator of hazardous waste in 1999, no violations were listed. The AST database indicates one or more ASTs are permitted at this site. The San Bernardino Co. Permit database is related to permitting hazardous waste generation or storage and lists a Facility ID #FA0005524. The HIST UST database lists four former 10,000-gallon gasoline USTs, one former 10,000-gallon diesel UST, and one former 50,000-gallon UST at this site. The UST listing indicates that the site is permitted to utilize USTs with the San Bernardino County Fire Department with Facility ID #FA0005524. The SWEEPS UST database lists an active status for four 10,000-gallon gasoline UST, a 5,000-gallon diesel UST, and a 10,000-gallon diesel UST. The CA FID UST database lists an active status, no additional pertinent information was provided. The CERS database lists this site as a permitted industrial facility for stormwater discharges and a chemical storage facility with CERS ID #251433 and #10043482; multiple violations were listed and have since achieved compliance. The CERS HAZ WASTE database lists this site as a hazardous waste generator with CERS ID #10043482. The CERS TANKS database lists permitted USTs and aboveground petroleum storage tanks at this site. The EMI database identifies permitting emissions in 1990, 1995, and 1996. The NPDES and CIWQS listings are related to industrial stormwater discharge sampling and permitting. The WDS database lists				

	this site as an industrial site with seasonal discharges. The CORTESE listing is related to the LUST listing.
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.
VEC Discussion:	Based on the available data, a VEC is not suspected.

Name/Address:	Cherokee Wood Products; 1390 East Arrow Highway				
Database(s):	RCRA-NonGen / NLR				
Distance in feet:	Adjoining	**Direction:**	W	**Gradient:**	Up/Cross
Data Discussion:	This site is identified as a non-generator of hazardous waste in 2003 on the RCRA database, no violations were listed. Based on the absence of reported violations, this listing is not considered to be a REC in connection with the Property.				
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.				
VEC Discussion:	Based on the available data, a VEC is not suspected.				

4.3.5 ASTM Search Distance Findings

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

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

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

Federal SEMS				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

Federal SEMS-ARCHIVE				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

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

Federal RCRA-TSD				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

State HAZARDOUS WASTE SITE				**# of sites:**	5	**Search Distance:**	1-mile
Notable Listing:	San Antonio Regional Hospital						
Distance in feet:	1,908	**Direction:**	WNW	**Gradient:**	Cross		
Data Discussion:	This site appears on the EnviroStor database with an "Inactive – Needs Evaluation" status as a tiered permitted site, no additional pertinent information was provided. Based on distance, this listing is not considered to be a REC in connection with the Property.						
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.						
VEC Discussion:	Based on the available data, a VEC is not suspected.						

State SOLID WASTE FACILITY/LANDFILL				**# of sites:**	0	**Search Distance:**	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

State LEAKING STORAGE TANKS				**# of sites:**	6	**Search Distance:**	½-mile
Notable Listing:	A and L Trucking; 1471 East Arrow Highway						
Distance in feet:	458	**Direction:**	ENE	**Gradient:**	Cross		
Data Discussion:	This site is listed on the LUST database due to impacts to the soil with diesel. The leak was first discovered November 21, 1988 and the LUST case received regulatory closure on July 11, 1995. Based on the media impacted and the regulatory closure granted, this listing is not considered to be a REC in connection with the Property.						
REC Discussion:	Based on the details provided above, a REC is not suspected in connection with the Property.						
VEC Discussion:	Based on the available data, a VEC is not suspected.						

State VOLUNTARY CLEANUP SITES				# of sites:	0	Search Distance:	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

State BROWNFIELD SITES				# of sites:	0	Search Distance:	½-mile
Notable Listing:	None						
Distance in feet:		**Direction:**		**Gradient:**			
Data Discussion:							
REC Discussion:							
VEC Discussion:							

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

4.4 Additional Environmental Record Sources

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

Source	Type of Request	Outcome
EPA MyProperty	Online search	Hillmann searched online for records pertaining to the Property. No records pertaining to the property were found.
EPA Envirofacts	Online search	Hillmann searched online for records pertaining to the Property. No records pertaining to the property were found.
San Bernardino County Fire Department	FOI request	A search was not conducted due to unreasonable cost-prohibitive agency search fees; however, Hillmann recommends that agency records be requested for the Property including any UST closure records.
California Department of Toxic Substances Control (DTSC)	FOI request	A response was recieved stating that no records were found.
CA DTSC (Envirostor)	Online search	Hillmann searched online for records pertaining to the Property. No records pertaining to the property were found.
Regional Water Quality Control Board (RWQCB)	FOI request	A response was recieved stating that no records were found.

Source	Type of Request	Outcome
CA SWRCB (GeoTracker)	Online search	Hillmann searched online for records pertaining to the Property. No records pertaining to the property were found.
South Coast Air Quality Management District (SCAQMD)	FOI request	A response was received providing the following pertinent records: • Inactive permit to operate gasoline storage and dispensing, dated January 1, 1999 • A Notice to Comply related to gas dispensing equipment, dated May 10, 1989 • A Notice to Comply related to information submittal, dated November 19, 2003 and closed February 18, 2004

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

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

Site Inspection Personnel:	Mr. Davis Tang
Property Escort/Company:	Mr. John Jenkins / Property Owner Mr. Jeff Ragland / The Landmark Company
Inspection Date:	May 18, 2021
Weather Conditions:	Overcast, 68 ºF

5.1.1 Significant Inaccessible Areas

The following significant areas of the Property were not accessed at the time of the site visit:

Two of the three small storage sheds at the central portion of the Property were locked and Hillmann did not have access. However, the sheds were reported to be storing furniture, documents, and other miscellaneous materials. The inaccessible sheds are not considered to be a significant data gap and is not considered to be a REC.

5.1.2 Significant Limiting Site Conditions

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

5.2 General Site Setting

5.2.1 Site and Vicinity Characteristics

Abutting Roadways:	East Arrow Highway to the north
Current Property Use:	Truss manufacturing, lumber yard, and sawmill
Evidence of Past Property Uses:	Lumberyard and sawmill
Evidence of Past Adjoining Property Uses:	None observed
Surrounding Area Uses:	Wood distribution, trucking, residential

5.2.2 Current Adjoining Property Uses

Dir	Street Address	Description
N	1401 East Arrow Highway	R. F. White Co.
E	Orangewood Drive	Residential
S	North 14th Street	Residential
W/SW	1390 East Arrow Highway	Cherokee Wood Products

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

5.2.3 Topographic Characteristics

Terrain:	Generally flat
Direction of Downward Slope:	Towards the south-southeast
On-site Water Bodies:	None observed
Other Significant Features:	None observed

5.2.4 General Description of Structures

Buildings/# of Floors	Four buildings / single / two-stories and five canopies
Approx. Building Area:	Building A – 2,200 SF; Building B – 1,150 SF; Building C – 6,400 SF; and Building D – 17,500
Approx. Year Built:	1956
Ancillary Structures:	Three small storage sheds
Sources of Heating & Cooling:	Unit specific PTAC units
Potable Water/Sewage Disposal:	Municipal utility connections

5.3 Interior & Exterior Observations

5.3.1 Storage/Usage of Hazardous Substances and Petroleum Products

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

Occupant	Substance	Qty/Container Type	Storage Conditions
Arrow Truss Co.	Motor Oil	Multiple / retail-sized (2 and 5-gallons)	Stored around machinery throughout the Property, evidence of staining was observed
	Transmission Fluid	Multiple / retail-sized (5-gallons)	Stored around machinery throughout the Property
	Gasoline	Two / 1-gallon container	Stored on a desk in Building D, no evidence of spills or leaks

	Used oil	One / 5-gallon container	

5.3.2 Drums

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

However, several empty drums utilized as general trash bins were observed on the Property.

5.3.3 Unidentified Substance Containers

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

5.3.4 Other Hazardous Substances/Petroleum Products

The following other containers of hazardous substances and/or petroleum products were noted on the Property:

Several 10-pound propane tanks associated with forklifts were observed on the Property. No evidence of spills or leaks were observed.

5.3.5 Bulk Petroleum/Hazardous Material Storage Tanks

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

AST/ UST	Product	Capacity	Construction	Year Installed	Status	Location/Notes
AST	Gasoline	72-gallons	Steel	Unknown	Active	Located on the west side of the Property, no evidence of spills or leaks were observed

Piping associated with two former USTs were observed adjacent to the north of the storage sheds. The USTs were reportedly removed in the 1980s; however, Mr. Jenkins was unable to provide associated documentation related to the removals. The former USTs are considered to be RECs in connection with the Property.

Considering the history of development at the Property, the potential presence of additional abandoned USTs and/or associated buried piping at the Property cannot be ruled out.

5.3.6 PCBs in Oil Filled Electrical/Hydraulic Equipment

The existing site improvements were established prior to the ban of PCBs in 1979. The following oil-filled electrical/hydraulic equipment was identified at the Property:

Hillmann observed three utility owned pole-mounted electrical transformers at the north central portion of the Property. No evidence of leaks or staining was observed and it is not considered to be a REC.

5.3.7 Odors

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

5.3.8 Pools of Liquid

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

5.3.9 Interior Stains or Corrosion

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

5.3.10 Interior Drains/Sumps

No floor drains or sump pits were noted at the Property other than for storm water or sewage management.

5.3.11 Exterior Pits/Ponds/Lagoons

No exterior pits, ponds or lagoons was identified on the Property in connection with waste treatment or disposal.

5.3.12 Stained Soil, Pavement/Stressed Vegetation

The following stained soil, pavement and/or stressed vegetation was observed at the Property:

Historical and current operations of various machinery associated with a sawmill have utilized various oils, lubricants, and transmission fluids, and have contributed to stained pavement throughout the Property. The various sawmill machinery is located beneath each canopy. The historical operations may have negatively impacted the subsurface through various cracks in the concrete pavement and is considered to be a REC.

5.3.13 On-Site Solid Waste Disposal/Fill Material

The following evidence of on-site solid waste dumping/disposal was observed:

Broken concrete was observed the southern border of the Property.

5.3.14 Waste Water

Sanitary sewage generated at the Property is discharged via a connection to the local public sewer system.

Storm water runoff at the Property is discharged off-site to local streams/drainage systems via overland flow.

No additional waste water discharges were identified at the Property.

5.3.15 Septic Systems

Mr. Jenkins indicated that a former septic system is located south of Building A and was disconnected when the Property was connected to the municipal sewer in 2000. The septic system was abandoned in place.

5.3.16 Wells

No potable, monitoring or other groundwater wells were identified at the Property.

5.3.17 Railroad Spurs

The following railroad spurs were noted on the Property:

A railroad spur was observed on the northern portion of the Property and is associated with a historical railroad that provided shipping materials between the 1960s and 1990s. Railroad spurs are associated with the use of pesticide applications for weed control and therefore the on-site spur is considered to be a REC.

6.0 INTERVIEWS

6.1 Interviews with Past and Present Owners and Occupants

Subject	Name/Affiliation	Summary
Property Owner / Representative	Mr. John Jenkins / Property Owner	Mr. Jenkins was interviewed via email and during the site inspection. Pertinent information is inserted into the relevant sections of the report.
Property Occupants	Not applicable	Property occupant was not interviewed.
Past Owners, Occupants, Operators	Not applicable	Past owners/occupants of the Property were not available for interview at the time of the assessment.
Owners/Occupants of Adjoining or Nearby Properties	Not applicable	The Property was not an abandoned property with evidence of unauthorized uses or uncontrolled access; therefore, interviews with adjoining or nearby property owners or occupants were not conducted.

6.2 Interviews with State and/or Local Government Officials

Written and on-line requests for environmental records of the Property from State and Local governmental agencies are detailed in Section 4.4.

7.0 BUSINESS ENVIRONMENTAL RISKS

In accordance with the contract agreement for this assessment, Hillmann has performed cursory reviews of several potential Business Environmental Risks (also known as "Non-Scope Considerations"). The ASTM E-1527-13 standard defines the term business environmental risk (BER) as, *"a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice."*

7.1 Asbestos-Containing Material (ACM)

The contracted scope of work included a cursory visual screening of the accessed portions of buildings at the Property built prior to 1990 for suspect asbestos containing materials (ACM). The information provided in this section, where applicable, is limited to identification of potential suspect materials in the readily accessible and observed areas of the building, and their general condition. This is not intended to be a comprehensive survey for the presence of ACM, and no testing has been conducted.

Suspected ACM noted within the accessed building areas included suspended ceiling panels, wallboard / joint compound, vinyl cove base, vinyl flooring and mastics.

7.2 Lead-Based Paint

The contracted scope of work included a cursory visual screening of the condition of painted surfaces in the accessed areas of residential buildings/units built prior to 1980. This is not intended to constitute a comprehensive survey for LBP or potential lead hazards, and no testing has been conducted.

No residential buildings were present at the Property.

7.3 Radon

Data compiled by the USEPA, as summarized by the regulatory database report, indicated that the Property is located in an area classified as Zone 2 or 'moderate risk' area for radon. Radon testing was not included in the scope of this assessment.

7.4 Mold/Microbial Damage

As per the contracted scope of work, Hillmann conducted a cursory visual screening of the accessed areas of the building for evidence of significant damage to building materials and finishes as result of moisture intrusion and/or mold/microbial growth. Hillmann did not observe evidence of significant problems with moisture intrusion or mold/microbial growth at the Property.

7.5 NWI Mapped Wetlands

As indicated in the Physical Setting Source table of Section 4.1, no NWI mapped wetlands areas were depicted at the Property by the EDR Geocheck-Physical Setting Source Addendum (attached in Appendic E).

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

7.6 Lead in Drinking Water

The scope of work for this assessment included a review of the potential for elevated levels of lead in drinking water by determining the source of the drinking water supply and a review of available compliance or testing data.

Potable water service at the Property is provided by a utility connection with the City of Upland Public Works Water Department. A recently published water quality report from the utility indicated compliance with USEPA water quality standards for lead in drinking water. A copy of the report has been attached in Appendix F.

8.0 REFERENCES

ASTM E-1527-13-Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process; ASTM International, 2013

ASTM E12600-15-Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction, ASTM International, 2015

EDR Radius Map Report with GeoCheck™, Environmental Data Resources, 2020

EDR City Directory Abstract Report, Environmental Data Resources, 2020

EDR Sanborn Map Report, Environmental Data Resources, 2020

Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources; A. Buonicore, 2011

9.0 APPENDICES

Appendix A	Site Diagram / Vicinity Map
Appendix B	Site Photographs
Appendix C	Questionnaires / User Provided Information
Appendix D	Historical Records Documentation
Appendix E	Regulatory Records Documentation
Appendix F	Other Documents / Lab Results
Appendix G	Project Personnel Qualifications

APPENDIX A

MAPS / DIAGRAMS

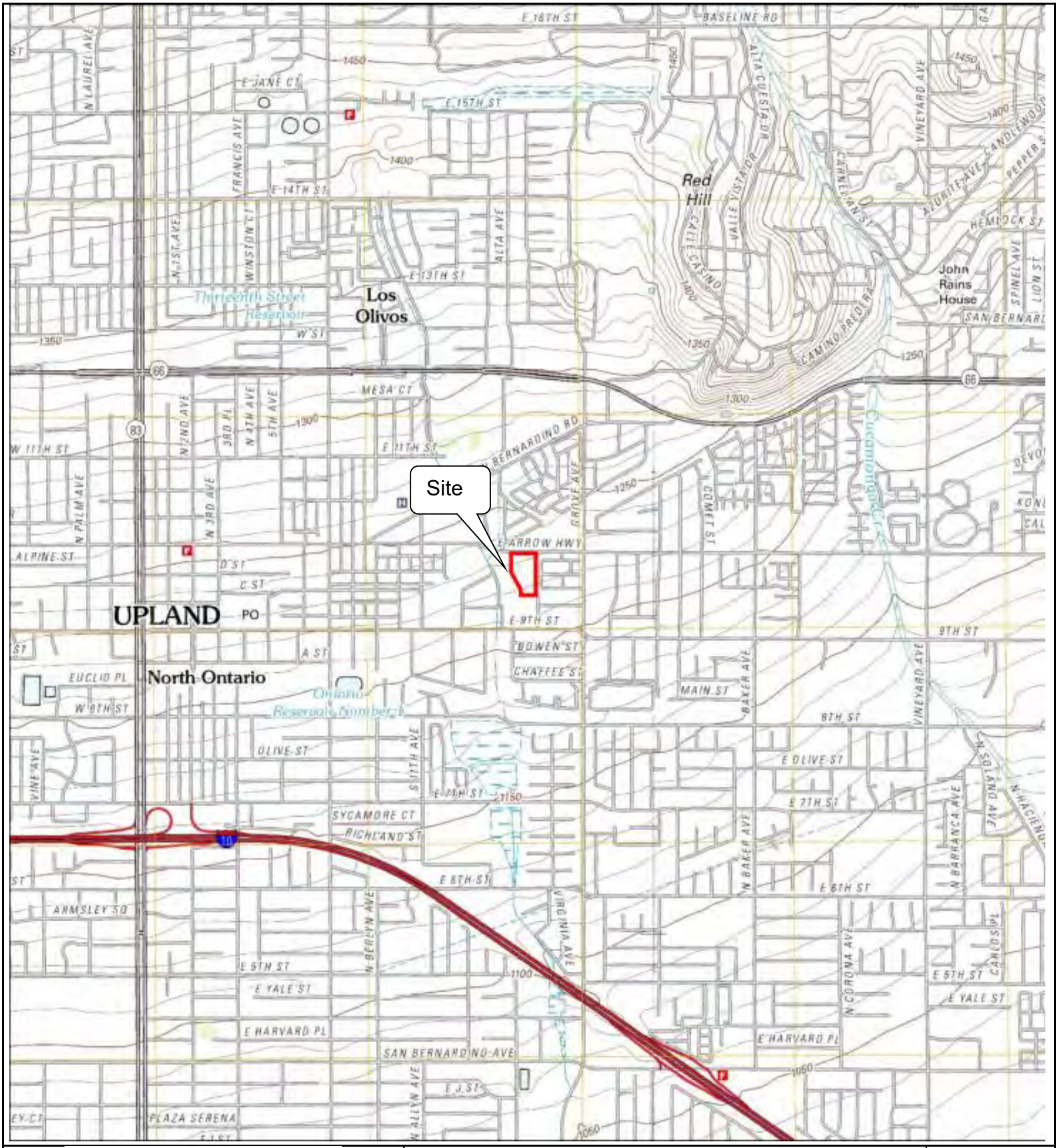

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Figure 1: Site Vicinity Map

1400 East Arrow Highway
Upland, California

N

SCALE: (NOT TO SCALE)

PROJECT No.: C3-8412

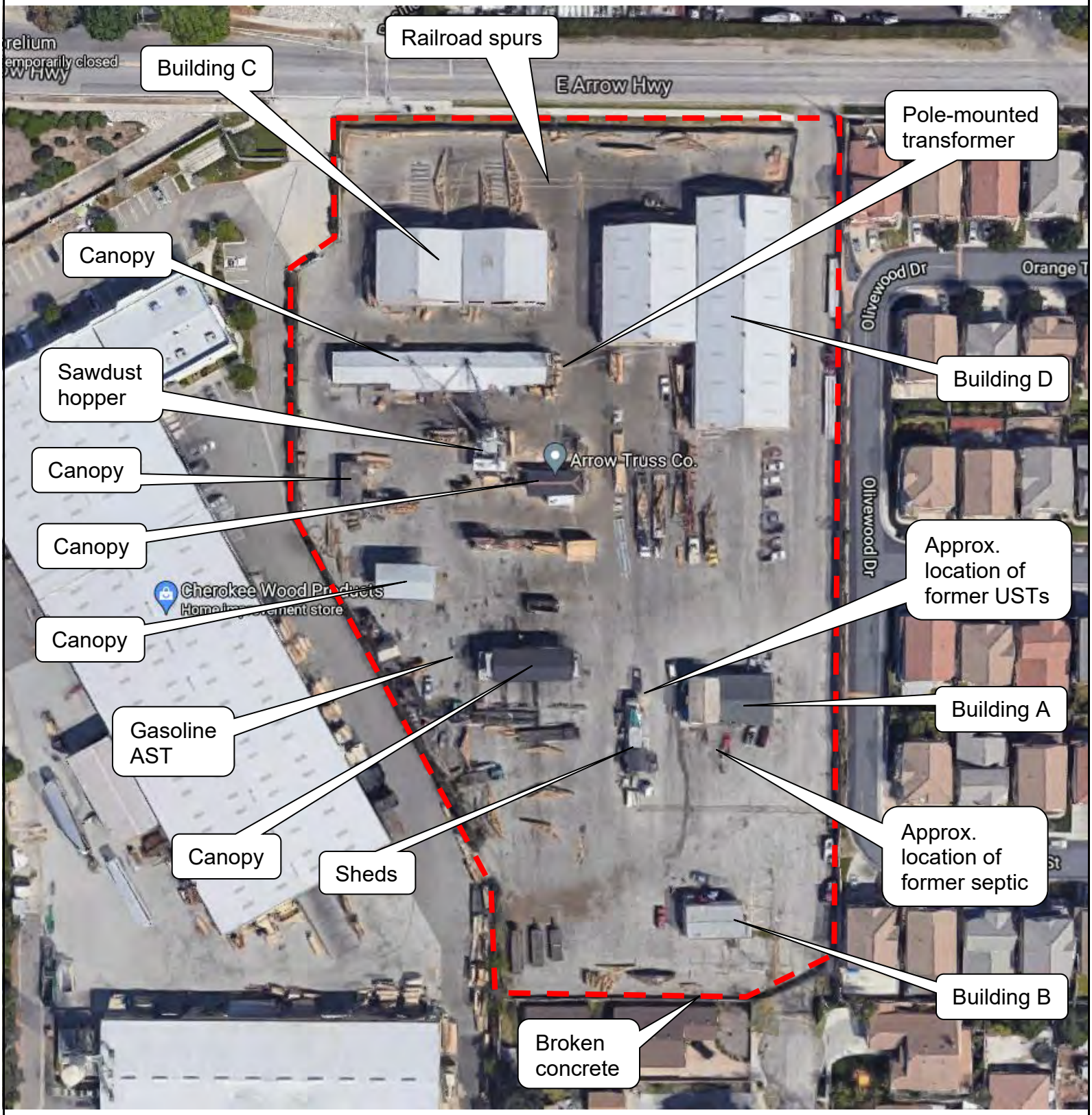

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Figure 2: Site Diagram

1400 East Arrow Highway
Upland, California

N

SCALE: (NOT TO SCALE)

PROJECT No.: C3-8412

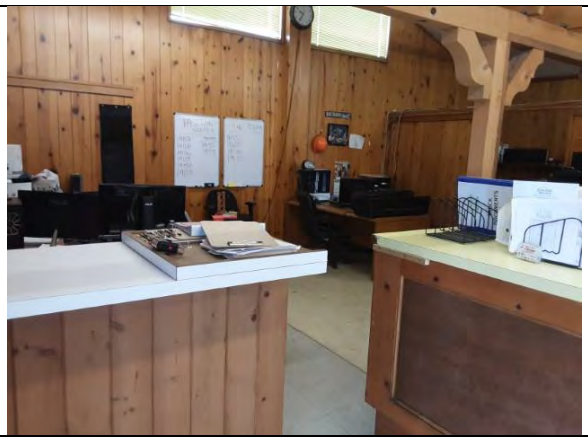
APPENDIX B

SITE PHOTOGRAPHS

SITE PHOTOGRAPHS

Building A

Building A



Interior of Building A

Approximate location of former septic system

Port associated with former septic system

Reportedly associated with electrical utility

PHASE I ESA - SITE PHOTOGRAPHS

1400 East Arrow Highway,
Upland, California

Project No.:	C3-8412

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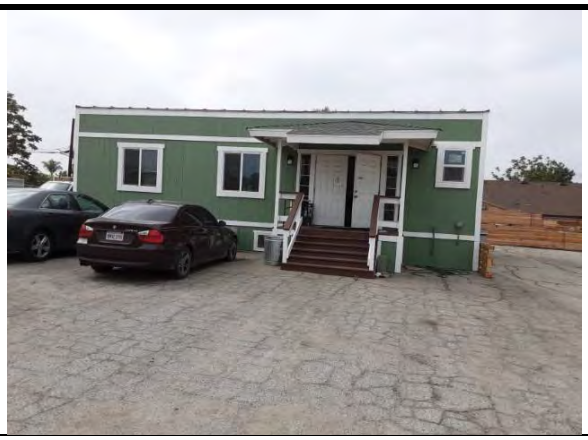
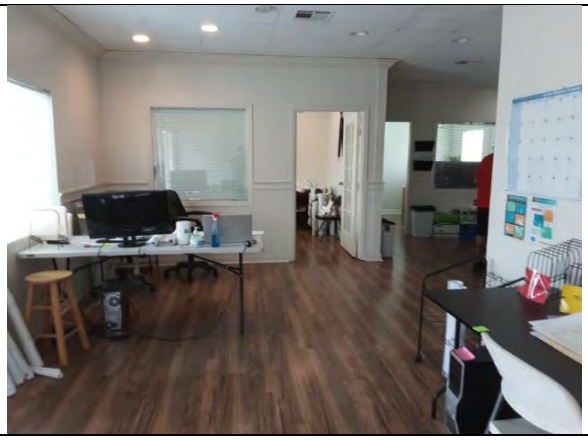
SITE PHOTOGRAPHS



Building B

Building B



Interior of Building B

Interior of Building B

A storage shed

Interior of storage shed

PHASE I ESA - SITE PHOTOGRAPHS

1400 East Arrow Highway,
Upland, California

Project No.:	C3-8412

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SITE PHOTOGRAPHS

Storage shed with no access

Storage shed with no access

Location of former USTs and dispenser

Potential piping associated with USTs (top right)

Building C

Building D

PHASE I ESA - SITE PHOTOGRAPHS

1400 East Arrow Highway,
Upland, California

Project No.:	C3-8412

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SITE PHOTOGRAPHS

Interior of Building D

Interior of Building D

Truss construction in Building D

Gasoline cans in Building D

Pole-mounted transformer

Dust hopper

PHASE I ESA - SITE PHOTOGRAPHS

1400 East Arrow Highway,
Upland, California

Project No.:	C3-8412

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SITE PHOTOGRAPHS

Lumber storage

Truss storage and broken concrete

Broken concrete

Vehicles parked under a canopy

Used oil container

Gasoline AST

PHASE I ESA - SITE PHOTOGRAPHS

1400 East Arrow Highway,
Upland, California

Project No.:	C3-8412

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SITE PHOTOGRAPHS

Stained pavement

Stained pavement

Stained pavement

Oil container storage

Railroad spurs

Railroad spurs

PHASE I ESA - SITE PHOTOGRAPHS

1400 East Arrow Highway,
Upland, California

Project No.:	C3-8412

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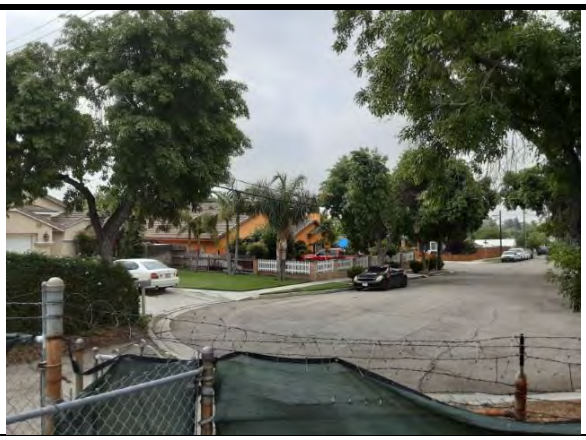
SITE PHOTOGRAPHS

East adjoining sites



South adjoining sites

West adjoining site

PHASE I ESA - SITE PHOTOGRAPHS

1400 East Arrow Highway,
Upland, California

Project No.:	C3-8412

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APPENDIX C

QUESTIONNAIRES/USER PROVIDED DOCUMENTATION

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APPENDIX D

HISTORICAL RECORDS DOCUMENTATION

1400 East Arrow Highway

1400 East Arrow Highway

Upland, CA 91786

Inquiry Number: 6485192.8

May 10, 2021

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

05/10/21

Site Name:

1400 East Arrow Highway
1400 East Arrow Highway
Upland, CA 91786
EDR Inquiry # 6485192.8

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Davis Tang

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: August 29, 1990	USDA
1989	1"=500'	Flight Date: August 03, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1953	1"=500'	Flight Date: March 03, 1953	USDA
1949	1"=500'	Flight Date: May 21, 1949	USDA
1938	1"=500'	Flight Date: May 27, 1938	USDA

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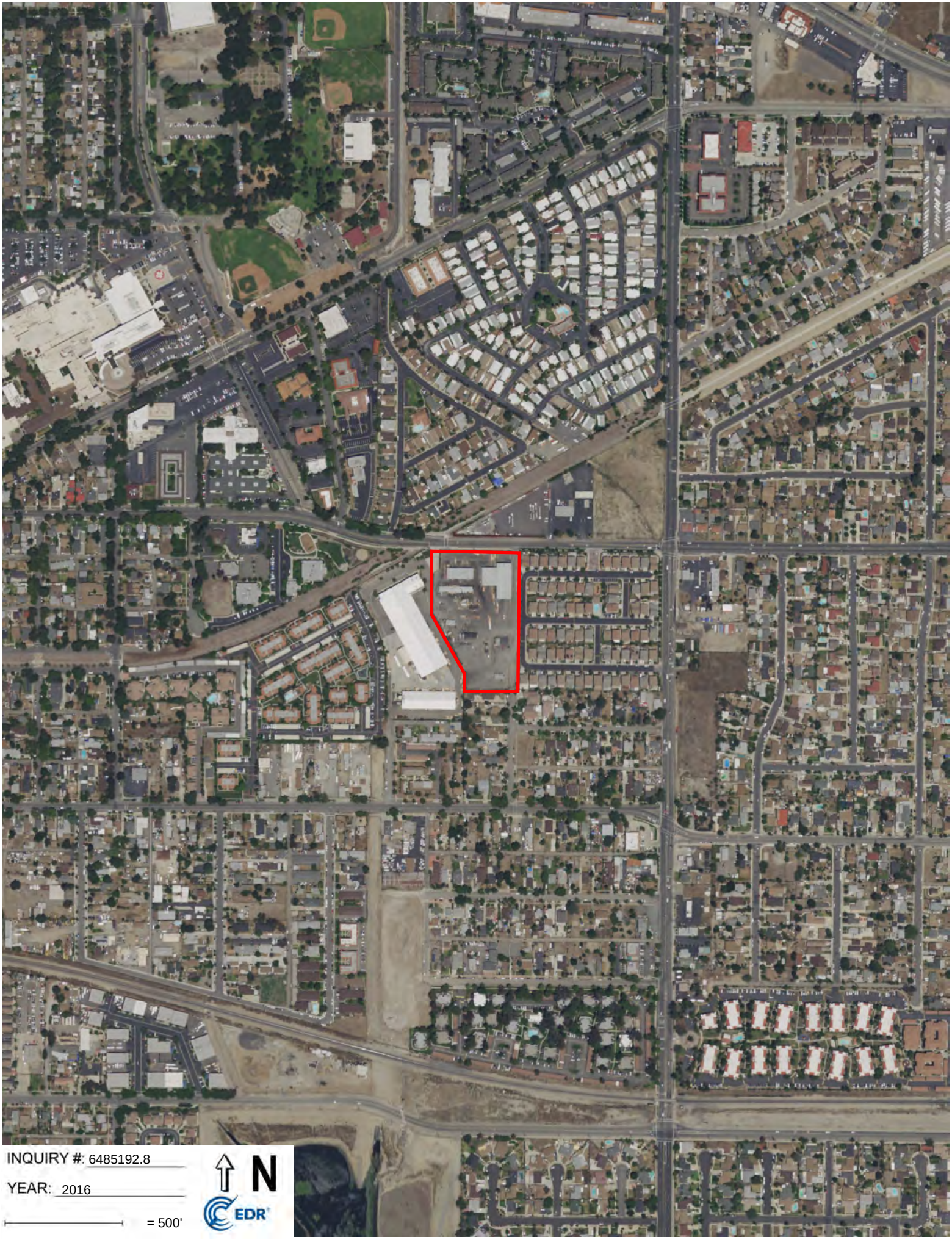
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YEAR: 2016
= 500'
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EDR

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YEAR: 2012
= 500'
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EDR

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YEAR: 2009
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YEAR: 2006
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EDR

INQUIRY #: 6485192.8
YEAR: 2002
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EDR

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YEAR: 1994
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YEAR: 1966
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YEAR: 1953
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EDR

INQUIRY #: 6485192.8
YEAR: 1949
= 500'
N
EDR

INQUIRY #: 6485192.8
YEAR: 1938
= 500'
N
EDR

1400 East Arrow Highway

1400 East Arrow Highway

Upland, CA 91786

Inquiry Number: 6485192.3

May 10, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/10/21

Site Name:

1400 East Arrow Highway
1400 East Arrow Highway
Upland, CA 91786
EDR Inquiry # 6485192.3

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Davis Tang

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Hillmann Environmental Co. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 8C4D-42E9-A268

PO # NA

Project C3-8412

Maps Provided:

1955
1950
1932
1930
1928

Sanborn® Library search results

Certification #: 8C4D-42E9-A268

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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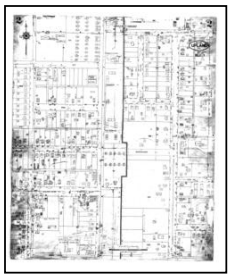
Sanborn Sheet Key

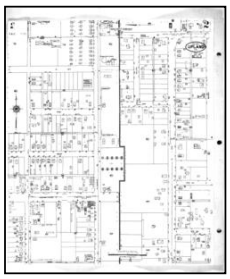
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1955 Source Sheets



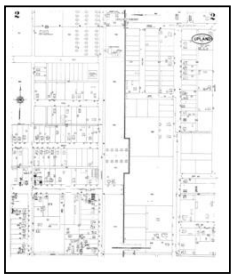
Volume 1, Sheet 2
1955

1950 Source Sheets



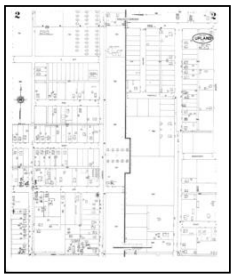
Volume 1, Sheet 2
1950

1932 Source Sheets



Volume 1, Sheet 2
1932

1930 Source Sheets



Volume 1, Sheet 2
1930

Sanborn Sheet Key

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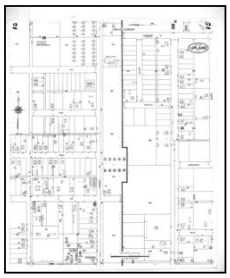
1928 Source Sheets



Volume 1, Sheet 2
1928

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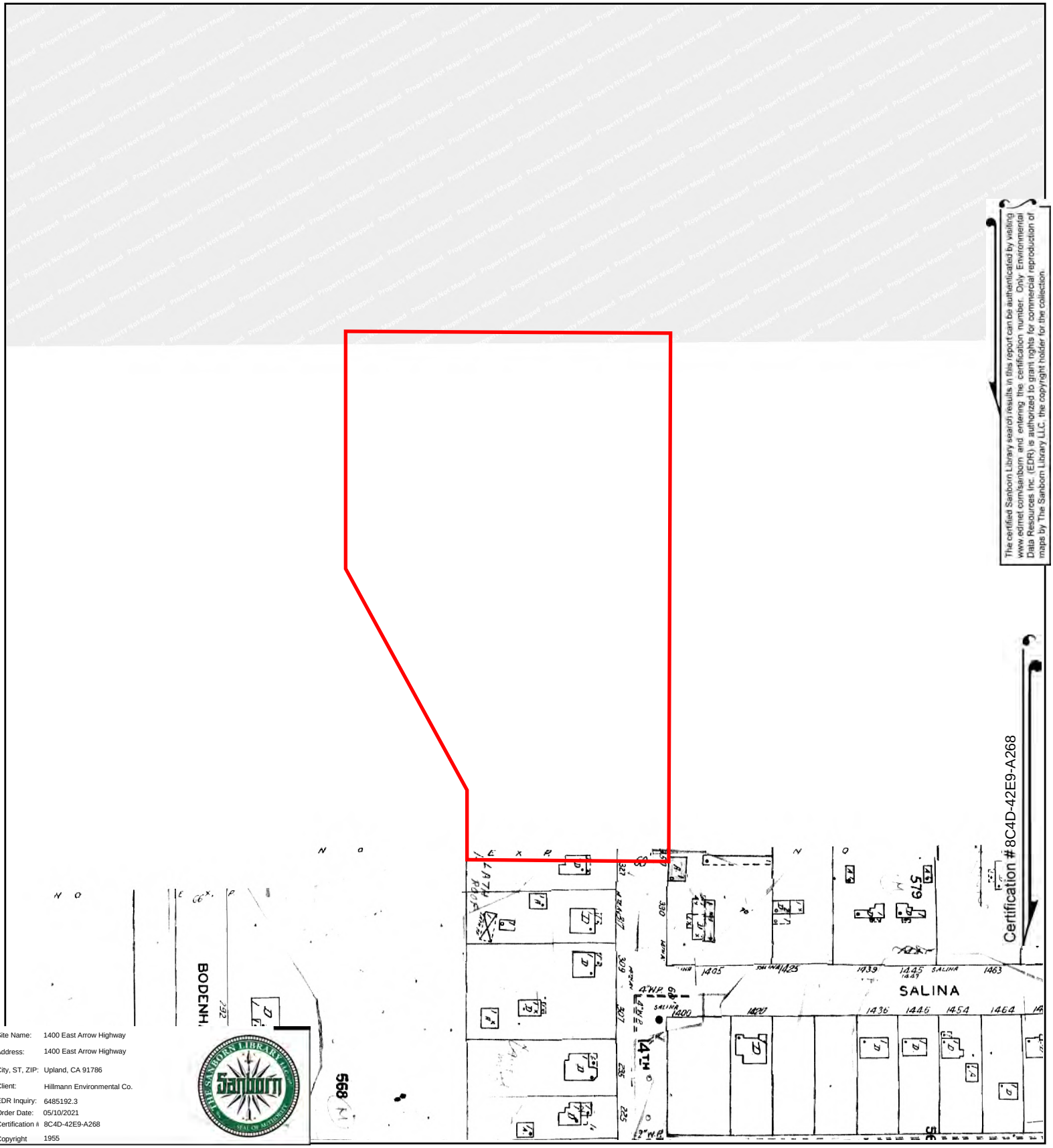
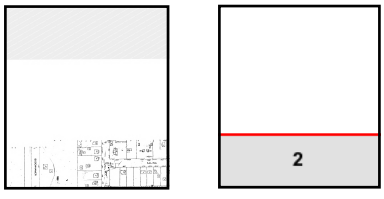


Site Name:	1400 East Arrow Highway
Address:	1400 East Arrow Highway
City, ST, ZIP:	Upland, CA 91786
Client:	Hillmann Environmental Co.
EDR Inquiry:	6485192.3
Order Date:	05/10/2021
Certification #	8C4D-42E9-A268
Copyright	1955

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

Volume 1, Sheet 2



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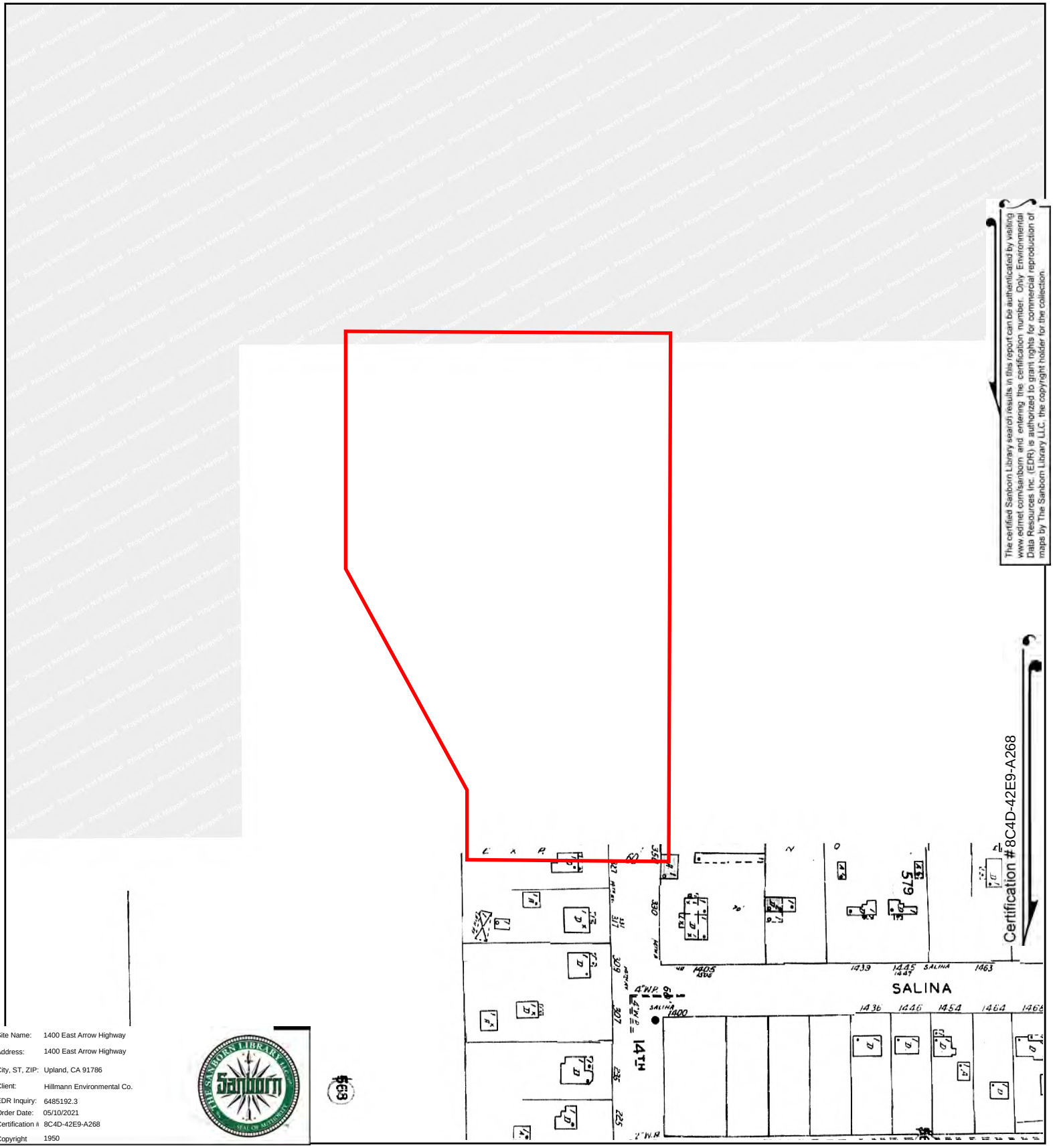

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Site Name: 1400 East Arrow Highway
Address: 1400 East Arrow Highway
City, ST, ZIP: Upland, CA 91786
Client: Hillmann Environmental Co.
EDR Inquiry: 6485192.3
Order Date: 05/10/2021
Certification #: 8C4D-42E9-A268
Copyright: 1950

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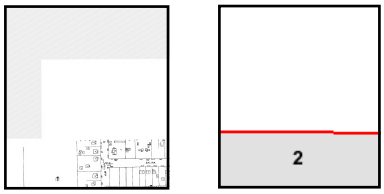
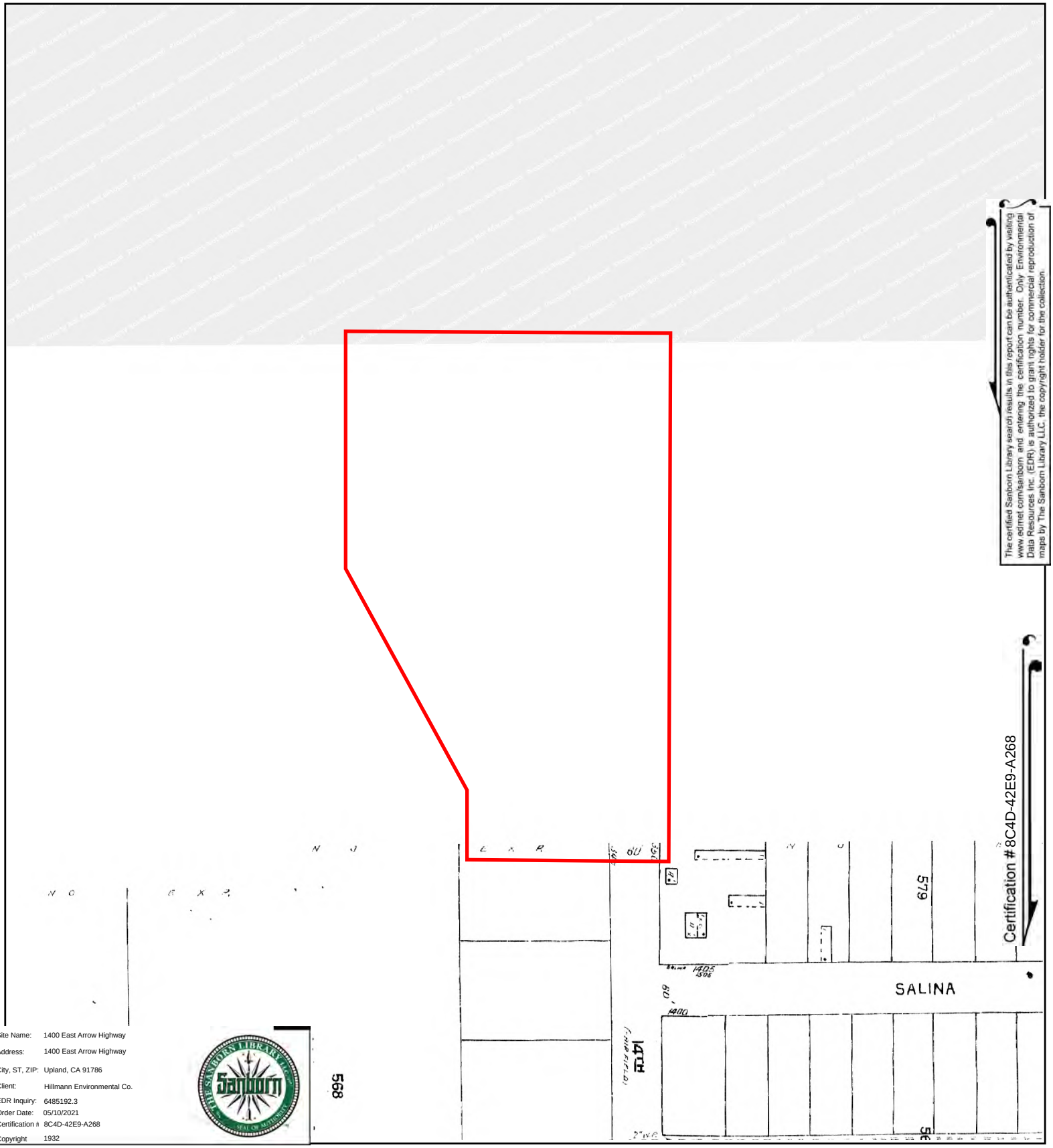
Volume 1, Sheet 2





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Site Name: 1400 East Arrow Highway
Address: 1400 East Arrow Highway
City, ST, ZIP: Upland, CA 91786
Client: Hillmann Environmental Co.
EDR Inquiry: 6485192.3
Order Date: 05/10/2021
Certification #: 8C4D-42E9-A268
Copyright: 1932

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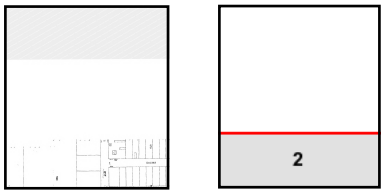

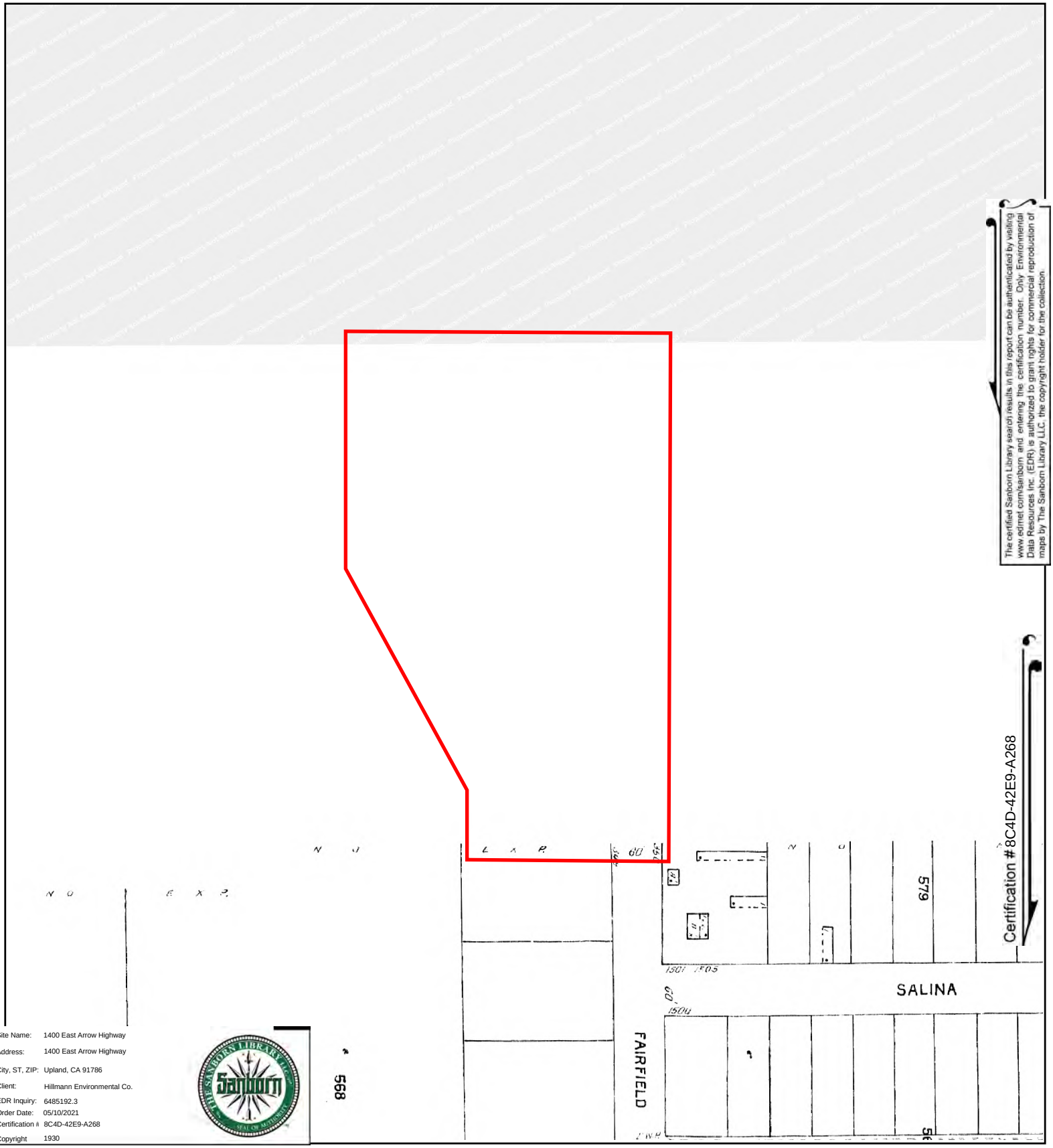

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Site Name: 1400 East Arrow Highway
Address: 1400 East Arrow Highway
City, ST, ZIP: Upland, CA 91786
Client: Hillmann Environmental Co.
EDR Inquiry: 6485192.3
Order Date: 05/10/2021
Certification #: 8C4D-42E9-A268
Copyright: 1930

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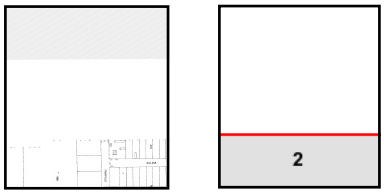
Volume 1, Sheet 2



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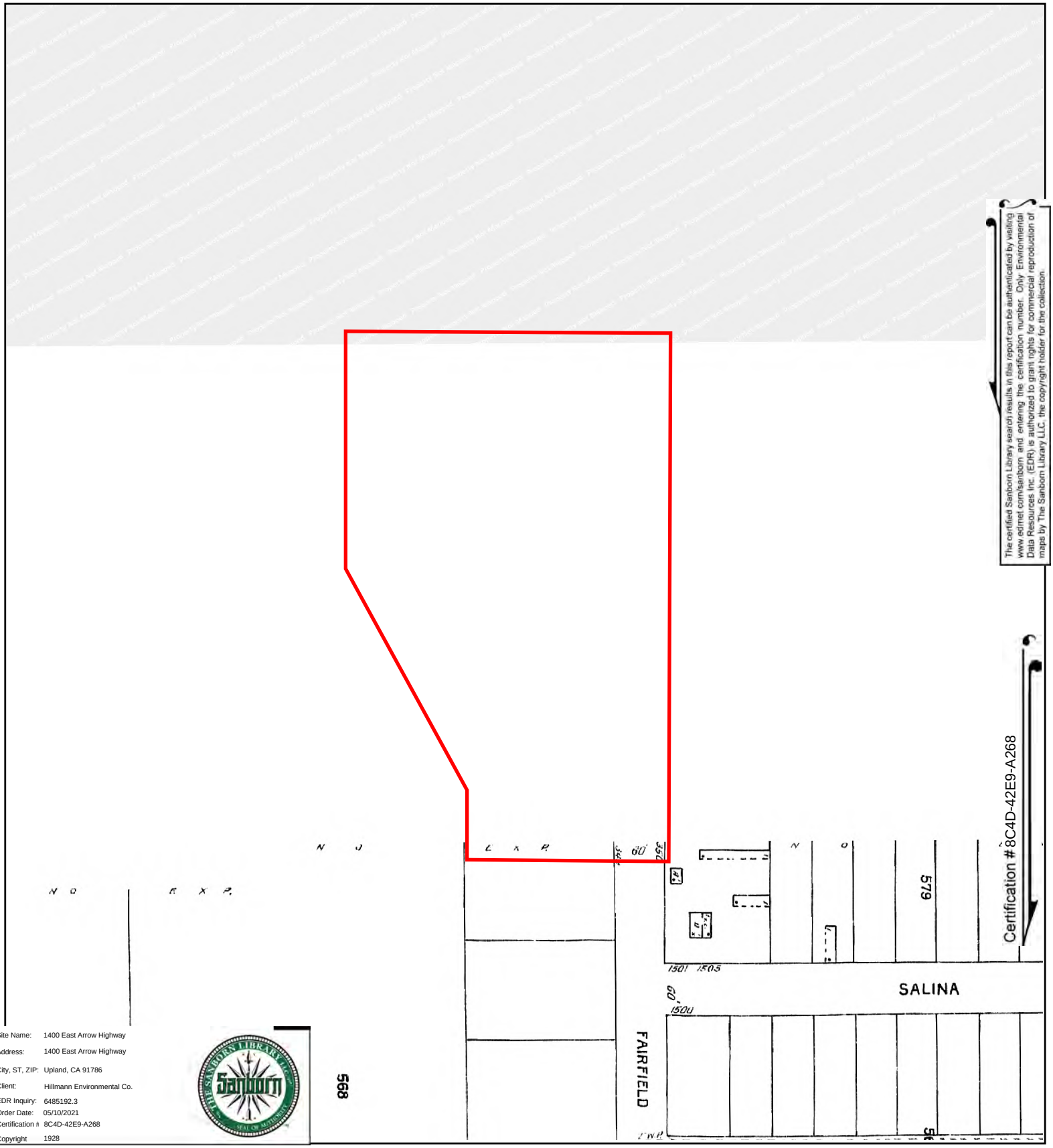

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Site Name: 1400 East Arrow Highway
Address: 1400 East Arrow Highway
City, ST, ZIP: Upland, CA 91786
Client: Hillmann Environmental Co.
EDR Inquiry: 6485192.3
Order Date: 05/10/2021
Certification #: 8C4D-42E9-A268
Copyright: 1928

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Outlined areas indicate map sheets within the collection.

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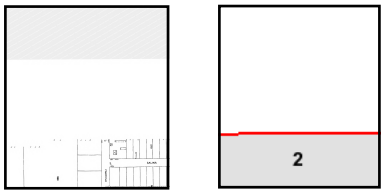
Volume 1, Sheet 2



1400 East Arrow Highway
1400 East Arrow Highway
Upland, CA 91786

Inquiry Number: 6485192.5
May 10, 2021

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract 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 Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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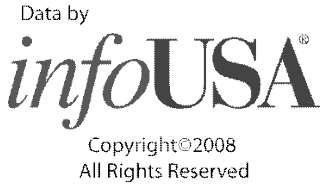

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
2009	Cole Information Services	-	X	X	-
2008	Haines Company, Inc.	X	X	X	-
2004	Cole Information Services	-	X	X	-
2003	Haines & Co Publishers	X	X	X	-
2002	Cole Information Services	-	-	-	-
1999	Cole Information Services	-	X	X	-
1996	GTE	-	-	-	-
1995	GTE Directories	X	X	X	-
1994	Cole Information Services	-	X	X	-
1991	GTE California Incorporated	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1990	GTE	X	X	X	-
1985	GTE	X	-	X	-
1981	General Telephone Company of California	-	-	-	-
1980	GTE General Telephone Company of California	X	X	X	-
1975	GTE Directories	X	X	X	-
1970	General Telephone Company of California	X	-	X	-
1965	GTE	-	-	-	-
1964	Luskey Brothers & Co	X	X	X	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	General Telephone Company Publishers	X	X	X	-
1956	General Telephone Company Publishers	-	X	X	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	X	-	X	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co.	X	-	X	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
1390 E Arrow Hwy	Client Entered	X
1401 E Arrow Hwy	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1400 East Arrow Highway
Upland, CA 91786

FINDINGS DETAIL

Target Property research detail.

E ARROW

1400 E ARROW

Year	Uses	Source
1995	BOYD LUMBER CO	GTE Directories
1990	BOYD LUMBER CO	GTE
1980	BOYD LUMBER CO	GTE General Telephone Company of California
1975	BOYD LUMBER CO	GTE Directories
1964	Boyo Lumber Co	Luskey Brothers & Co
1960	BOYD LUMBER CO	General Telephone Company Publishers

E ARROW HWY

1400 E ARROW HWY

Year	Uses	Source
2008	ARROW LUMBER INC	Haines Company, Inc.
	BOYD LUMBER CO	Haines Company, Inc.
	CORCOLES D	Haines Company, Inc.
	ID PACIFIC LUMBER CO	Haines Company, Inc.
2003	ARROW LUMBER INC	Haines & Co Publishers
	BOYD LUMBER CO	Haines & Co Publishers
	BUTCHERS BLOCK BLDG MATERIALS	Haines & Co Publishers
	CHEROKEE WOOD PRODUCTS	Haines & Co Publishers
	SCHILLER Robert	Haines & Co Publishers
	TRUSWELL INC	Haines & Co Publishers
	WATTS Cecil	Haines & Co Publishers
	WHITNEY Duane C	Haines & Co Publishers
1995	Apartment	GTE Directories
	BOYD LUMBER CO	GTE Directories
1990	BOYD LUMBER CO	GTE
	Frinchaboy L J	GTE

FINDINGS

Year	Uses	Source
1990	From Covina Baldwin Park Telephones Call	GTE
	Synthane Taylor Corporation Division Of Alco Standard Corporation	GTE
	Training Center	GTE
	Wood Robt H	GTE
1985	BOYD LUMBER CO	GTE
1980	BOYD LUMBER CO	GTE General Telephone Company of California
1975	BOYD LUMBER CO	GTE Directories
	SYNTHANE TAYLOR CORPORATION DIVISION OF ALCO STANDARD CORPORATION	GTE Directories
1970	MAT 4 EWS K C	General Telephone Company of California
	n BOYO LUMBER CO	General Telephone Company of California
1964	Boyo Lumber Co	Luskey Brothers & Co
	Stephenson Donald A De Anne	Luskey Brothers & Co
1960	Bennett Arthur C	General Telephone Company Publishers
	BOYD LUMBER CO	General Telephone Company Publishers
1938	Smith Merle Gladys dairywkr	Los Angeles Directory Co.
1926	Vacant	Los Angeles Directory Co Publisher

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

13TH AVE N

510 13TH AVE N

Year	Uses	Source
2003	GASKINS Hampton	Haines & Co Publishers
	DAVIDSON BERT MD	Haines & Co Publishers

525 13TH AVE N

Year	Uses	Source
2003	SUDHIR R MD	Haines & Co Publishers
	REDDY SUDHIR MD	Haines & Co Publishers
	LAL SATISH MD	Haines & Co Publishers
	CAROLLO Vincent	Haines & Co Publishers

548 13TH AVE N

Year	Uses	Source
2003	PAC EYE INSTITUTE LASER CENTER	Haines & Co Publishers
	OLSEN WANDA B MD	Haines & Co Publishers
	INLAND BEHAVIORAL MEDICAL	Haines & Co Publishers
	HAMPTON MEDICAL CLINIC	Haines & Co Publishers
	GASKINS REUEL T MD	Haines & Co Publishers
	GASKINS HAMPTON MD INC	Haines & Co Publishers
	SOLIGUEN AURORA MD	Haines & Co Publishers

COTTONWOOD ST

1407 COTTONWOOD ST

Year	Uses	Source
2017	ANGEL JAUREGUI	Cole Information Services
2014	ANGEL JAUREGUI	Cole Information Services
2009	FELICID ESTACIO	Cole Information Services
2008	ESTACIO Felicidad	Haines Company, Inc.
1999	FELICID ESTACIO	Cole Information Services

FINDINGS

1412 COTTONWOOD ST

Year	Uses	Source
2009	TONY LIN	Cole Information Services
2008	MARSHALL Thelma	Haines Company, Inc.
1999	TONY LIN	Cole Information Services

1413 COTTONWOOD ST

Year	Uses	Source
2014	GISELA TANZARELLI	Cole Information Services
2009	ERIK IWASHIKA	Cole Information Services
2008	IWASHIKA June	Haines Company, Inc.
1999	ERIK IWASHIKA	Cole Information Services

1418 COTTONWOOD ST

Year	Uses	Source
2017	BINH LE	Cole Information Services
2014	MYLINA NGUYEN	Cole Information Services
2009	JEREMIAH BLANKENSHIP	Cole Information Services
2008	BLANKENSHIP Jeremiah	Haines Company, Inc.
1999	JEREMIAH BLANKENSHIP	Cole Information Services

1419 COTTONWOOD ST

Year	Uses	Source
2017	CARLOS ARREDONDO	Cole Information Services
2014	CARLOS ARREDONDO	Cole Information Services
2009	NOLETTE KING	Cole Information Services
2008	KING Nolette	Haines Company, Inc.
1999	NOLETTE KING	Cole Information Services

1424 COTTONWOOD ST

Year	Uses	Source
2017	ANA REINA	Cole Information Services
2014	ANA REINA	Cole Information Services
2009	VICTOR MOLINA	Cole Information Services
2008	REINA Ana	Haines Company, Inc.
1999	VICTOR MOLINA	Cole Information Services

1425 COTTONWOOD ST

Year	Uses	Source
2017	MONICA KOBESZKO	Cole Information Services
2014	ANITA KILLACKEY	Cole Information Services

FINDINGS

Year	Uses	Source
2009	FIDA HUSSAIN	Cole Information Services
2008	HUSSAIN Fida	Haines Company, Inc.
1999	FIDA HUSSAIN	Cole Information Services

1430 COTTONWOOD ST

Year	Uses	Source
2017	LIONEL LISTON	Cole Information Services
2014	LIONEL LISTON	Cole Information Services
2009	BALTAZAR LISTON	Cole Information Services
2008	LISTON Baltazar	Haines Company, Inc.
1999	BALTAZAR LISTON	Cole Information Services

1431 COTTONWOOD ST

Year	Uses	Source
2014	SHU LIAO	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	JONES Rita	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1436 COTTONWOOD ST

Year	Uses	Source
2014	KEVIN WILLIAMS	Cole Information Services
2009	KEVIN WILLIAMS	Cole Information Services
2008	WILLIAMS Kevin	Haines Company, Inc.
1999	KEVIN WILLIAMS	Cole Information Services

1437 COTTONWOOD ST

Year	Uses	Source
2017	LUBOYA ALAIN	Cole Information Services
2014	ALAIN LUBOYA	Cole Information Services
2009	ALAIN LUBOYA	Cole Information Services
2008	LUBOYA Alain	Haines Company, Inc.
1999	ALAIN LUBOYA	Cole Information Services

1442 COTTONWOOD ST

Year	Uses	Source
2014	FRANK GERARDO	Cole Information Services
2009	FRANK GERARDO	Cole Information Services
2008	GERARDO Frank	Haines Company, Inc.
1999	FRANK GERARDO	Cole Information Services

FINDINGS

1443 COTTONWOOD ST

Year	Uses	Source
2017	ANN JOHN	Cole Information Services
2014	SUSAN GEORGE	Cole Information Services
2009	SUSAN KURUVILLA	Cole Information Services
2008	KURUVILLA Susan	Haines Company, Inc.
1999	SUSAN KURUVILLA	Cole Information Services

1450 COTTONWOOD ST

Year	Uses	Source
2017	MARIA CAMPOS	Cole Information Services
2014	MARIA CAMPOS	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
	SR TELECOM	Cole Information Services
2008	HERNANDEZ Francisco	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1462 COTTONWOOD ST

Year	Uses	Source
2017	IFTIKHAR AHMAD	Cole Information Services
2014	ERIC DUNN	Cole Information Services
2009	IFTIKHAR AHMAD	Cole Information Services
2008	AHMAD Mubashar	Haines Company, Inc.
1999	IFTIKHAR AHMAD	Cole Information Services

1468 COTTONWOOD ST

Year	Uses	Source
2017	SYED RIZVI	Cole Information Services
2014	SYED RIZVI	Cole Information Services
2009	SYED RIZVI	Cole Information Services
2008	RIZVI Syed	Haines Company, Inc.
1999	SYED RIZVI	Cole Information Services

1476 COTTONWOOD ST

Year	Uses	Source
2017	JUDY LEUNG	Cole Information Services
2014	JUDY LEUNG	Cole Information Services
2009	JUDY LEUNG	Cole Information Services
2008	LEUNG Judy	Haines Company, Inc.
1999	JUDY LEUNG	Cole Information Services

FINDINGS

1479 COTTONWOOD ST

Year	Uses	Source
2017	MARK SANTACRUZ	Cole Information Services
2014	MARK SANTACRUZ	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	BULLOCK Tyiese	Haines Company, Inc.
	AHMED Shazia	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1480 COTTONWOOD ST

Year	Uses	Source
2014	NSIMBA KUEDITUKA	Cole Information Services
2009	NSIMBA KUEDITUKA	Cole Information Services
1999	NSIMBA KUEDITUKA	Cole Information Services

1485 COTTONWOOD ST

Year	Uses	Source
2008	RUIZ Mina	Haines Company, Inc.
	RUIZ Mina	Haines Company, Inc.

E ARROW

1441 E ARROW

Year	Uses	Source
1964	American Legion Post Auxiliary	Luskey Brothers & Co
	American Legion Post	Luskey Brothers & Co
	American Legion Post	Luskey Brothers & Co
	American Legion Post Auxiliary	Luskey Brothers & Co

1471 E ARROW

Year	Uses	Source
1990	Bond Trucking	GTE
1980	BONO TRUCKING CO	GTE General Telephone Company of California
1975	Bond Trucking Co	GTE Directories
1964	Upland Pipe & Supply Co	Luskey Brothers & Co
1960	CRAIG OIL PRODUCTS	General Telephone Company Publishers
	CRAIG OIL PRODUCTS	General Telephone Company Publishers
1956	Craig Oil Products	General Telephone Company Publishers
	Craig Oil Products	General Telephone Company Publishers

FINDINGS

E ARROW HWY

1260 E ARROW HWY

Year	Uses	Source
2008	WHITE Corrine	Haines Company, Inc.
	INLAND VLY DRUG & ALCOHOL	Haines Company, Inc.
	HERITAGE GARDENS	Haines Company, Inc.
	ABLUE W G	Haines Company, Inc.

1390 E ARROW HWY

Year	Uses	Source
2017	CHEROKEE WOOD PRODUCTS	Cole Information Services
2014	CHEROKEE WOOD PRODUCTS	Cole Information Services
2009	CHEROKEE WOOD PRODUCTS INC	Cole Information Services
2008	CHEROKEE WOOD PRODUCTS	Haines Company, Inc.
	CHEROKEE WOOD PRODUCTS	Haines Company, Inc.

E Arrow Hwy

1390 E Arrow Hwy

Year	Uses	Source
2008	CHEROKEE WOOD PRODUCTS	Haines Company, Inc.
	CHEROKEE WOOD PRODUCTS	Haines Company, Inc.

E ARROW HWY

1390 E ARROW HWY

Year	Uses	Source
2004	CHEROKEE WOOD PRODUCTS INC	Cole Information Services

1401 E ARROW HWY

Year	Uses	Source
2017	R F WHITE CO INC	Cole Information Services
2014	R F WHITE CO INC	Cole Information Services
2009	R F WHITE CO INC	Cole Information Services

E Arrow Hwy

1401 E Arrow Hwy

Year	Uses	Source
2008	R F WHITE CO INC	Haines Company, Inc.

FINDINGS

E ARROW HWY

1401 E ARROW HWY

Year	*Uses*	*Source*
2004	RONALD F WHITE INC	Cole Information Services
1999	R F WHITE COMPANY INCORPORATED	Cole Information Services

E Arrow Hwy

1401 E Arrow Hwy

Year	*Uses*	*Source*
1995	R F WHITE CO INC	GTE Directories

E ARROW HWY

1401 E ARROW HWY

Year	*Uses*	*Source*
1994	R F WHITE CO	Cole Information Services

E Arrow Hwy

1401 E Arrow Hwy

Year	*Uses*	*Source*
1990	R F White Co Inc	GTE
1980	PETROLEUM CARRIERS	GTE General Telephone Company of California
	SR F WHITE CO INC	GTE General Telephone Company of California

N 13TH AVE

510 N 13TH AVE

Year	*Uses*	*Source*
2017	BRYCE BESETH	Cole Information Services
	UPLAND SURGICAL ASSOCIATES	Cole Information Services
2009	BOLING CLINICAL TRIALS	Cole Information Services
2008	SANANTONIO FERTILITY CENTER	Haines Company, Inc.
2004	SAN ANTONIO FERTILITY CTR	Cole Information Services
1999	SAN ANTONIO MEDICAL MSO	Cole Information Services
	SAN ANTONIO FERTILITY CENTER	Cole Information Services
	DAVIDSON BERT MD	Cole Information Services
1995	Building	GTE Directories

FINDINGS

Year	Uses	Source
1994	DAVIDSON, BERT	Cole Information Services

525 N 13TH AVE

Year	Uses	Source
2017	RANCHO WELLNESS	Cole Information Services
2014	LAL SATISH MD	Cole Information Services
2009	SATISH K LAL MD	Cole Information Services
	SUDHIR K REDDY MD	Cole Information Services
2008	LAL SATISH MD	Haines Company, Inc.
	REDDY SUDHIR MD	Haines Company, Inc.
	SUDHIR R MD	Haines Company, Inc.
2004	SUDHIR REDDY MD	Cole Information Services
	SATISH K LAL MD APC	Cole Information Services
1999	CAROLLO VINCENT J MD	Cole Information Services
	SUDHIR R MD	Cole Information Services
	REDDY SUDHIR MD	Cole Information Services
1995	CAROLLO MD VINCENT	GTE Directories
	Building	GTE Directories
	B REDDY MD 8 UDHIR	GTE Directories
	B REDDY D P	GTE Directories
1994	VINCENT J CAROLLO INC	Cole Information Services
	D P REDDY MD	Cole Information Services
1990	DESAI BHUPAT H MD	GTE
	CAROLLO VINCENT J MD Medical Corp	GTE

548 N 13TH AVE

Year	Uses	Source
2017	TEAM MAKENA	Cole Information Services
	BEST BUY HEATING & AIR CONDITION	Cole Information Services
	SAN ANTONIO MEDICAL GROUP	Cole Information Services
2014	PAIN	Cole Information Services
	BEST BUY HEATING & AIR CONDITION	Cole Information Services
	AREZZO HOLDING LLC	Cole Information Services
2009	INLAND OSTEOPOROSIS CENTER	Cole Information Services
2008	WALTERS PHYSICAL THERAPY GYM	Haines Company, Inc.
	WALTERS PHYSICAL THERAPY	Haines Company, Inc.
	SANANTONIO MEDICAL GROUP	Haines Company, Inc.
	INLAND OSTEOPOROSIS CENTER	Haines Company, Inc.
	INLAND RHEUMATOLOGY	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2004	AURORA SOLIGUEN MD	Cole Information Services
	AURORA SOLIGUEN	Cole Information Services
	WANDA OLSEN	Cole Information Services
	REUEL GASKINS	Cole Information Services
	EUGENE BOLING	Cole Information Services
1999	HAMPTON MEDICAL CLINIC	Cole Information Services
	GASKINS HAMPTON MD INCORPORATED	Cole Information Services
	SAN ANTONIO MEDICAL GROUP	Cole Information Services
1995	Building	GTE Directories
1994	KRISHNA G REDDY MD	Cole Information Services
	DAVID B VAN EVERY MD	Cole Information Services
	R SUDHIR MD	Cole Information Services
	HAMPTON MED CLINIC	Cole Information Services
	REDDY, KRISHNA G	Cole Information Services
	SUDHIR, R	Cole Information Services

N 14TH AVE

395 N 14TH AVE

Year	Uses	Source
1964	Berg Hilma A Mrs	Luskey Brothers & Co

410 N 14TH AVE

Year	Uses	Source
1995	Apartment A Osier Donavan	GTE Directories

421 N 14TH AVE

Year	Uses	Source
1995	Pittman Richard	GTE Directories

431 N 14TH AVE

Year	Uses	Source
1995	King Pearl	GTE Directories
	CARTERS REFRIG/ APPL	GTE Directories
	10TH AVE N CONT	GTE Directories

452 N 14TH AVE

Year	Uses	Source
1995	Hopson John	GTE Directories

FINDINGS

N PINEWOOD LN

461 N PINEWOOD LN

Year	Uses	Source
2008	REYES Ronald F	Haines Company, Inc.

471 N PINEWOOD LN

Year	Uses	Source
2017	XIAOSHAN CHEN	Cole Information Services
2014	ALEXIS ONTIVEROS	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	SANTOS Damaris	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

481 N PINEWOOD LN

Year	Uses	Source
2017	SEAN TELISH	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2008	SIEGEL Scott	Haines Company, Inc.

ORANGE GROVE ST

1406 ORANGE GROVE ST

Year	Uses	Source
2017	JIN KANG	Cole Information Services
2014	JUDI BRYSON	Cole Information Services
2009	ROCHELLE ZACARIAS	Cole Information Services
1999	ROCHELLE ZACARIAS	Cole Information Services

1407 ORANGE GROVE ST

Year	Uses	Source
2017	GERALD INGRAM	Cole Information Services
2014	GERALD INGRAM	Cole Information Services
2009	GERALD INGRAM	Cole Information Services
2008	INGRAM Gerald	Haines Company, Inc.
1999	GERALD INGRAM	Cole Information Services

1412 ORANGE GROVE ST

Year	Uses	Source
2017	TIMOTHY UNG	Cole Information Services
2014	TIMOTHY UNG	Cole Information Services

FINDINGS

Year	Uses	Source
2009	TIMOTHY UNG	Cole Information Services
2008	UNG Timothy	Haines Company, Inc.
1999	TIMOTHY UNG	Cole Information Services

1413 ORANGE GROVE ST

Year	Uses	Source
2017	ROGER HENRY	Cole Information Services
2014	SILVERA REECE	Cole Information Services
2009	BRIAN POFF	Cole Information Services
2008	POFF Brian	Haines Company, Inc.
1999	BRIAN POFF	Cole Information Services

1418 ORANGE GROVE ST

Year	Uses	Source
2017	OSCHAR BINGCONG	Cole Information Services
2014	OSCHAR BINGCONG	Cole Information Services
2009	J VIRREY	Cole Information Services
2008	LOPEZ Cecilia	Haines Company, Inc.
1999	J VIRREY	Cole Information Services

1419 ORANGE GROVE ST

Year	Uses	Source
2017	ZAILI FAN	Cole Information Services
2014	LOUIS WIES	Cole Information Services
2009	OLUSOGA OGUNJALE	Cole Information Services
2008	OGUNJALE Olusoga	Haines Company, Inc.
1999	OLUSOGA OGUNJALE	Cole Information Services

1424 ORANGE GROVE ST

Year	Uses	Source
2017	ISIDRO MORENO	Cole Information Services
2014	DOUGLAS MARQUIS	Cole Information Services
2009	DOUGLAS MARQUIS	Cole Information Services
2008	MARQUIS Douglas	Haines Company, Inc.
1999	DOUGLAS MARQUIS	Cole Information Services

1425 ORANGE GROVE ST

Year	Uses	Source
2017	LILIA AGCAMARAN	Cole Information Services
2014	LILIA AGCAMARAN	Cole Information Services

FINDINGS

Year	Uses	Source
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	KYROUAC Craig	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1430 ORANGE GROVE ST

Year	Uses	Source
2017	TERESA ROSALES	Cole Information Services
2014	JOEL LEATHERS	Cole Information Services
2009	MICHAEL PYTEL	Cole Information Services
2008	LEATHERS Joel	Haines Company, Inc.
1999	MICHAEL PYTEL	Cole Information Services

1431 ORANGE GROVE ST

Year	Uses	Source
2017	PEI WANG	Cole Information Services
2014	PEI WANG	Cole Information Services
2009	PEI WANG	Cole Information Services
2008	SHEN John	Haines Company, Inc.
	WANG Pearl	Haines Company, Inc.
1999	PEI WANG	Cole Information Services

1436 ORANGE GROVE ST

Year	Uses	Source
2017	YOLANDA MARZETTE	Cole Information Services
2014	SURAPIN THANASOPHON	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	BONNER Deirdre	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1437 ORANGE GROVE ST

Year	Uses	Source
2017	MARAGRET BARTEL	Cole Information Services
2014	JUAN CHEN	Cole Information Services
2009	JUAN CHEN	Cole Information Services
2008	LI Zhenyu	Haines Company, Inc.
1999	JUAN CHEN	Cole Information Services

1442 ORANGE GROVE ST

Year	Uses	Source
2017	SHAN LIU	Cole Information Services

Year	Uses	Source
2014	QIUYUAN CHEN	Cole Information Services
2009	PEDRO ZAMORA	Cole Information Services
2008	ZAMORA Pedro	Haines Company, Inc.
	ANIMAS Eva	Haines Company, Inc.
1999	PEDRO ZAMORA	Cole Information Services

1443 ORANGE GROVE ST

Year	Uses	Source
2017	LISA LEE	Cole Information Services
2014	XIANGQI MENG	Cole Information Services
2009	EVAN VIANZON	Cole Information Services
2008	VIANZON Evan	Haines Company, Inc.
1999	EVAN VIANZON	Cole Information Services

1450 ORANGE GROVE ST

Year	Uses	Source
2017	JUAN RUVALCABA	Cole Information Services
2014	MARIA FERNANDEZ	Cole Information Services
2009	JUAN RUVALCABA	Cole Information Services
2008	RUVALCABA Juan	Haines Company, Inc.
1999	JUAN RUVALCABA	Cole Information Services

ORANGE TREE LN

1406 ORANGE TREE LN

Year	Uses	Source
2008	ZACARIAS Rochelle	Haines Company, Inc.

1407 ORANGE TREE LN

Year	Uses	Source
2017	ADRIAN CASTANEDA	Cole Information Services
2014	ADRIAN CASTANEDA	Cole Information Services
2008	AHMED Shuja	Haines Company, Inc.

1412 ORANGE TREE LN

Year	Uses	Source
2017	SARMISTHA GHANSHYAM	Cole Information Services
2014	SARMISTHA GHANSHYAM	Cole Information Services
2009	UDAY GHANSHYAM	Cole Information Services
2008	GHANSHYAM Sarmistha	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1999	UDAY GHANSHYAM	Cole Information Services

1413 ORANGE TREE LN

Year	Uses	Source
2017	TONY BABY	Cole Information Services
2014	JOHN BABY	Cole Information Services
2009	JACKSON YU	Cole Information Services
2008	YU Jackson	Haines Company, Inc.
1999	JACKSON YU	Cole Information Services

1418 ORANGE TREE LN

Year	Uses	Source
2017	HONG CHENG	Cole Information Services
2014	IFTIKHAR AHMAD	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	JOHNSON Aurie	Haines Company, Inc.
	ALVI Wasima	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1419 ORANGE TREE LN

Year	Uses	Source
2017	CHRIS ECKMAN	Cole Information Services
2014	CHRIS ECKMAN	Cole Information Services
2009	CHRISTOPHER ECKMAN	Cole Information Services
2008	ECKMAN Christopher	Haines Company, Inc.
1999	CHRISTOPHER ECKMAN	Cole Information Services

1424 ORANGE TREE LN

Year	Uses	Source
2014	NICK YIM	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	JUDILLA Carmen	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1425 ORANGE TREE LN

Year	Uses	Source
2017	DARLA MILLER	Cole Information Services
2014	KENNETH ELLIOTT	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	BARRON Christopher	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

1430 ORANGE TREE LN

Year	Uses	Source
2017	KING WU	Cole Information Services
2014	KING WU	Cole Information Services
2009	KING WU	Cole Information Services
2008	WU King	Haines Company, Inc.
1999	KING WU	Cole Information Services

1431 ORANGE TREE LN

Year	Uses	Source
2017	GERALD ANDONG	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	AJEAKWA Joyce	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1436 ORANGE TREE LN

Year	Uses	Source
2017	MARIA ARAMBULA	Cole Information Services
2014	MARIA ARAMBULA	Cole Information Services
2009	JESUS MEDRANO	Cole Information Services
2008	MEDRANO Jesus	Haines Company, Inc.
1999	JESUS MEDRANO	Cole Information Services

1437 ORANGE TREE LN

Year	Uses	Source
2017	JEFFREY PLAZZ	Cole Information Services
2014	PATRICIA PLAZZ	Cole Information Services
2009	CHRISTINE DIANYEE	Cole Information Services
2008	TRAN Jimmy	Haines Company, Inc.
1999	CHRISTINE DIANYEE	Cole Information Services

1442 ORANGE TREE LN

Year	Uses	Source
2017	MARVIN BEETS	Cole Information Services
2014	MARVIN BEETS	Cole Information Services
2009	MARVIN BEETS	Cole Information Services
2008	BEETS Marvin	Haines Company, Inc.
1999	MARVIN BEETS	Cole Information Services

FINDINGS

1443 ORANGE TREE LN

Year	Uses	Source
2017	NSIMBA KUEDITUKA	Cole Information Services
2014	NSIMBA KUEDITUKA	Cole Information Services
2008	KUEDITUKA Nsimba	Haines Company, Inc.

1450 ORANGE TREE LN

Year	Uses	Source
2017	KIMBERLY MILLWEE	Cole Information Services
2014	LIANA MARSHALL	Cole Information Services
2008	AHLUWALIA Madan	Haines Company, Inc.

1461 ORANGE TREE LN

Year	Uses	Source
2017	JOSHUA ANDREWS	Cole Information Services
2014	JOSHUA ANDREWS	Cole Information Services
2009	ROBERT ACUNA	Cole Information Services
2008	KING Brandon	Haines Company, Inc.
	LY Nhung	Haines Company, Inc.
1999	ROBERT ACUNA	Cole Information Services

1467 ORANGE TREE LN

Year	Uses	Source
2017	ABDUL RASHEED	Cole Information Services
2014	ABDUL RASHEED	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2008	WARE Marcco	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services

1473 ORANGE TREE LN

Year	Uses	Source
2017	ALBERTO RIVERA	Cole Information Services
2014	CESAR CORERO	Cole Information Services
2008	HANNA George	Haines Company, Inc.

1479 ORANGE TREE LN

Year	Uses	Source
2017	NURI YANG	Cole Information Services
2009	TERRANCE BELL	Cole Information Services
2008	BELL Terrence	Haines Company, Inc.
1999	TERRANCE BELL	Cole Information Services

FINDINGS

1482 ORANGE TREE LN

Year	Uses	Source
2017	VALLOP ROONGSUMPHAN	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	MICHAIL EHAB	Cole Information Services
2008	EHAB Michail	Haines Company, Inc.
	MICHAIL Ehab	Haines Company, Inc.
1999	MICHAIL EHAB	Cole Information Services

1485 ORANGE TREE LN

Year	Uses	Source
2017	ROSENDO LAMAS	Cole Information Services
2009	ROSENDO LAMAS	Cole Information Services
2008	LAMAS Rosendo	Haines Company, Inc.
1999	ROSENDO LAMAS	Cole Information Services

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1260 E ARROW HWY	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1390 E ARROW HWY	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1390 E Arrow Hwy	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1390 E ARROW HWY	2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1401 E Arrow Hwy	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1985, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1401 E ARROW HWY	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1406 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1406 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1407 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1407 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1407 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1407 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1407 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1407 ORANGE TREE LN	2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1412 COTTONWOOD ST	2017, 2014, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1412 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1412 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1412 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1412 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1412 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1413 COTTONWOOD ST	2017, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1413 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1413 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1413 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1413 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1413 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1418 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1418 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1418 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1418 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1418 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1418 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1419 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1419 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1419 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1419 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1419 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1419 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1424 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1424 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1424 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1424 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1424 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1424 ORANGE TREE LN	2017, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1425 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1425 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1425 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1425 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1425 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1425 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1430 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1430 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1430 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1430 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1430 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1430 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1431 COTTONWOOD ST	2017, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1431 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1431 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1431 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1431 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1431 ORANGE TREE LN	2014, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1436 COTTONWOOD ST	2017, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1436 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1436 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1436 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1436 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1436 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1437 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1437 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1437 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1437 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1437 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1437 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1441 E ARROW	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1442 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1442 COTTONWOOD ST	2017, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1442 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1442 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1442 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1442 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1443 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1443 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1443 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1443 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1443 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1443 ORANGE TREE LN	2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1450 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1450 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1450 ORANGE GROVE ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1450 ORANGE GROVE ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1450 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1450 ORANGE TREE LN	2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1461 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1461 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1462 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1462 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1467 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1467 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1468 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1468 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1471 E ARROW	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1970, 1965, 1961, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1473 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1473 ORANGE TREE LN	2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1476 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1476 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1479 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1479 COTTONWOOD ST	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1479 ORANGE TREE LN	2014, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1479 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1480 COTTONWOOD ST	2017, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1482 ORANGE TREE LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1482 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1485 COTTONWOOD ST	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1485 ORANGE TREE LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1485 ORANGE TREE LN	2014, 2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
395 N 14TH AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
410 N 14TH AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
421 N 14TH AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
431 N 14TH AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
452 N 14TH AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
461 N PINEWOOD LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
471 N PINEWOOD LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
471 N PINEWOOD LN	2008, 2004, 2003, 2002, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
481 N PINEWOOD LN	2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
481 N PINEWOOD LN	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
510 13TH AVE N	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
510 N 13TH AVE	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
510 N 13TH AVE	2014, 2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
525 13TH AVE N	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
525 N 13TH AVE	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
525 N 13TH AVE	2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
548 13TH AVE N	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
548 N 13TH AVE	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched

548 N 13TH AVE

Address Not Identified in Research Source

2008, 2003, 2002, 1996, 1995, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
1400 East Arrow Highway	2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1991, 1981, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1936, 1934, 1931, 1930, 1923, 1922

1400 East Arrow Highway

1400 East Arrow Highway

Upland, CA 91786

Inquiry Number: 6485192.4

May 10, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

05/10/21

Site Name:

1400 East Arrow Highway
1400 East Arrow Highway
Upland, CA 91786
EDR Inquiry # 6485192.4

Client Name:

Hillmann Environmental Co.
1745 W Orangewood Avenue
Orange, CA 92868-0000
Contact: Davis Tang

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Hillmann Environmental Co. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: C3-8412

Coordinates:

Latitude:	34.098573 34° 5' 55" North
Longitude:	-117.631375 -117° 37' 53" West
UTM Zone:	Zone 11 North
UTM X Meters:	441760.88
UTM Y Meters:	3773265.54
Elevation:	1225.35' above sea level

Maps Provided:

2012	1941, 1942
1981	1940
1976	1933
1973	1903
1966, 1967	1900
1954	1897
1953, 1954	
1944	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

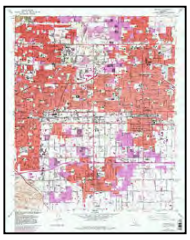
2012 Source Sheets

Guasti
2012
7.5-minute, 24000

Ontario
2012
7.5-minute, 24000

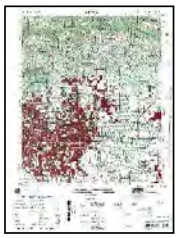
1981 Source Sheets

Guasti
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Ontario
1981
7.5-minute, 24000
Aerial Photo Revised 1978

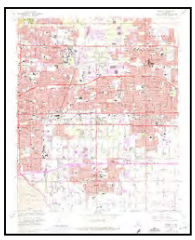
1976 Source Sheets



ONTARIO
1976
15-minute, 50000

1973 Source Sheets

Guasti
1973
7.5-minute, 24000
Aerial Photo Revised 1973



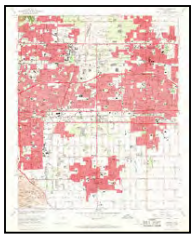
Ontario
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1966, 1967 Source Sheets

Guasti
1966
7.5-minute, 24000
Aerial Photo Revised 1966



Ontario
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1954 Source Sheets

Ontario
1954
15-minute, 62500

1953, 1954 Source Sheets

Guasti
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1944 Source Sheets

CUCAMONGA
1944
15-minute, 50000

Topo Sheet Key

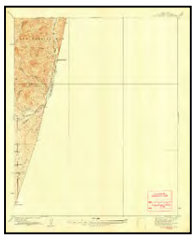
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1941, 1942 Source Sheets

GUASTI VICINITY
1941
7.5-minute, 31680

Ontario and Vicinity
1942
7.5-minute, 31680

1940 Source Sheets



Evey Canyon
1940
7.5-minute, 20000

1933 Source Sheets

Ontario
1933
7.5-minute, 31680

1903 Source Sheets

Cucamonga
1903
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets

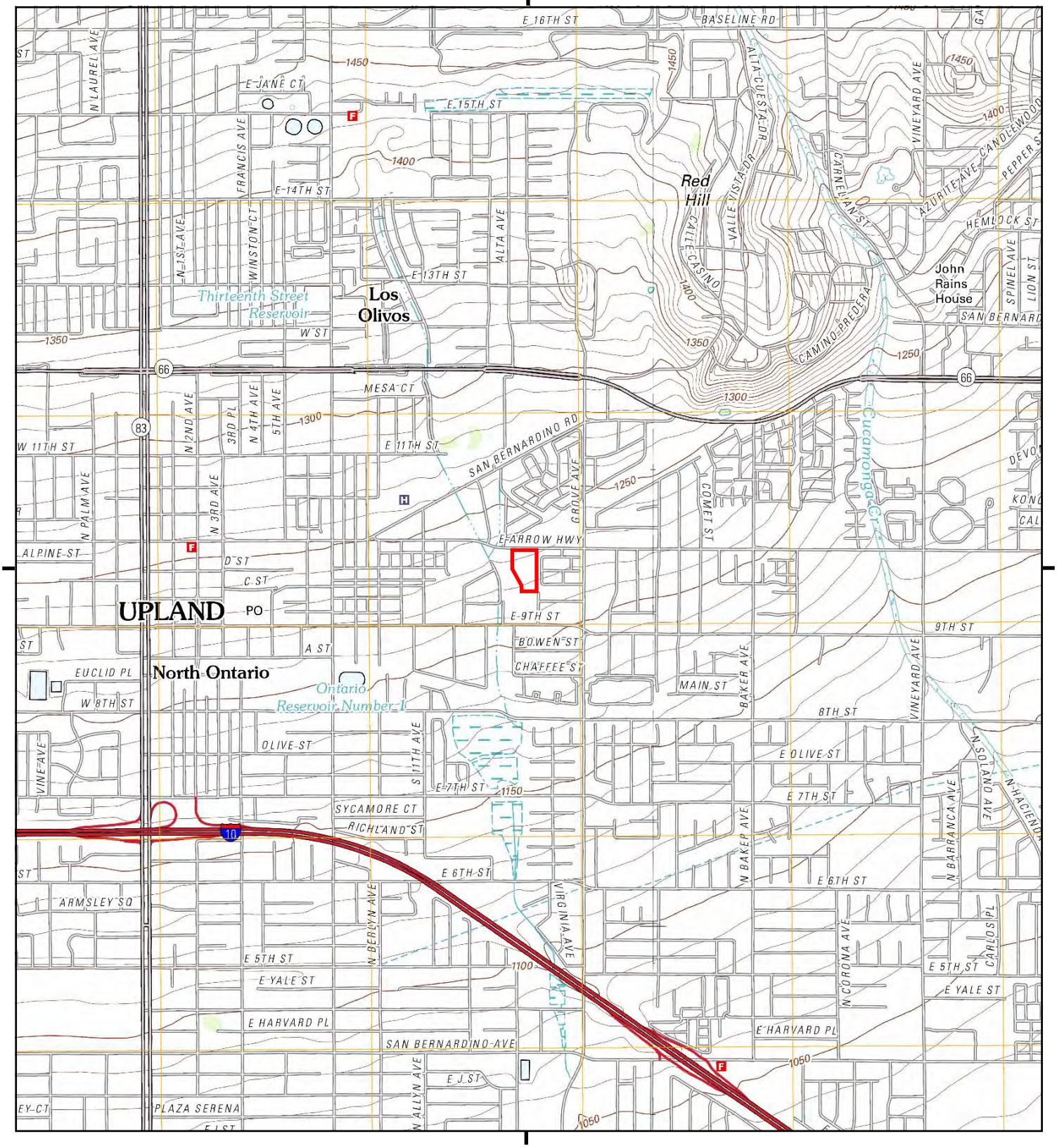
Cucamonga
1900
15-minute, 62500

1897 Source Sheets

Cucamonga
1897
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

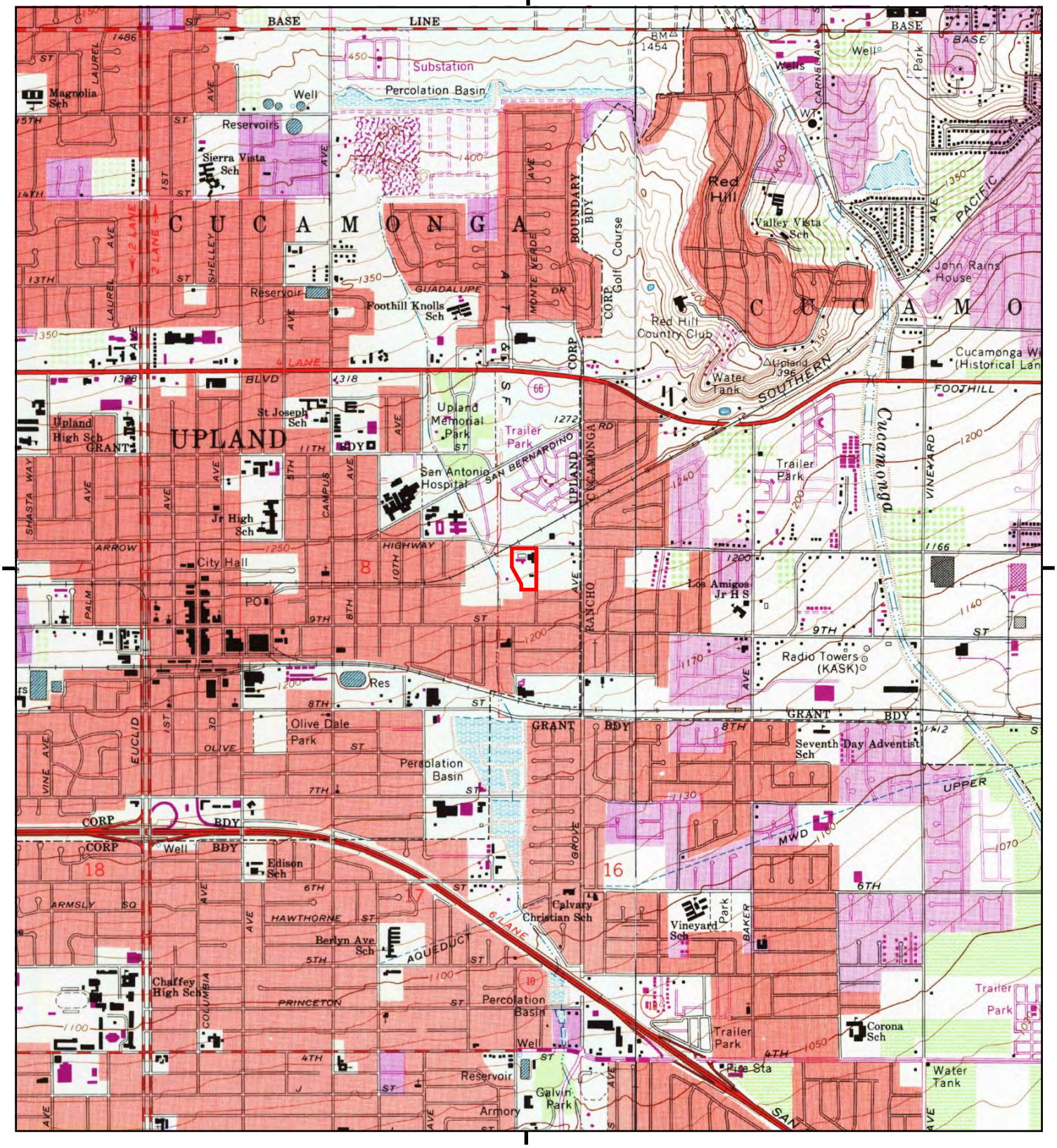
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ontario, 2012, 7.5-minute
SE, Guasti, 2012, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

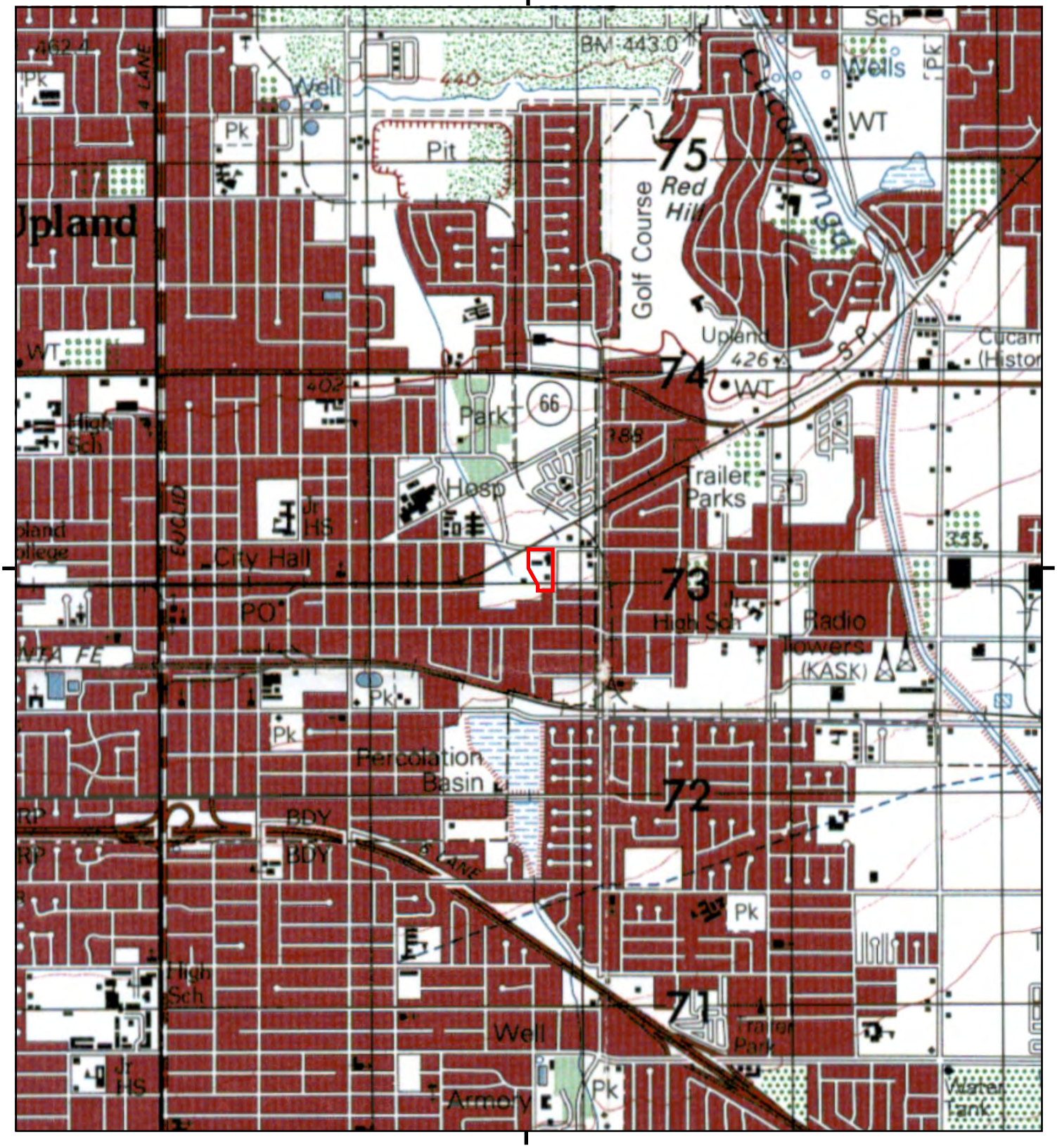
TP, Ontario, 1981, 7.5-minute
SE, Guasti, 1981, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1976



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

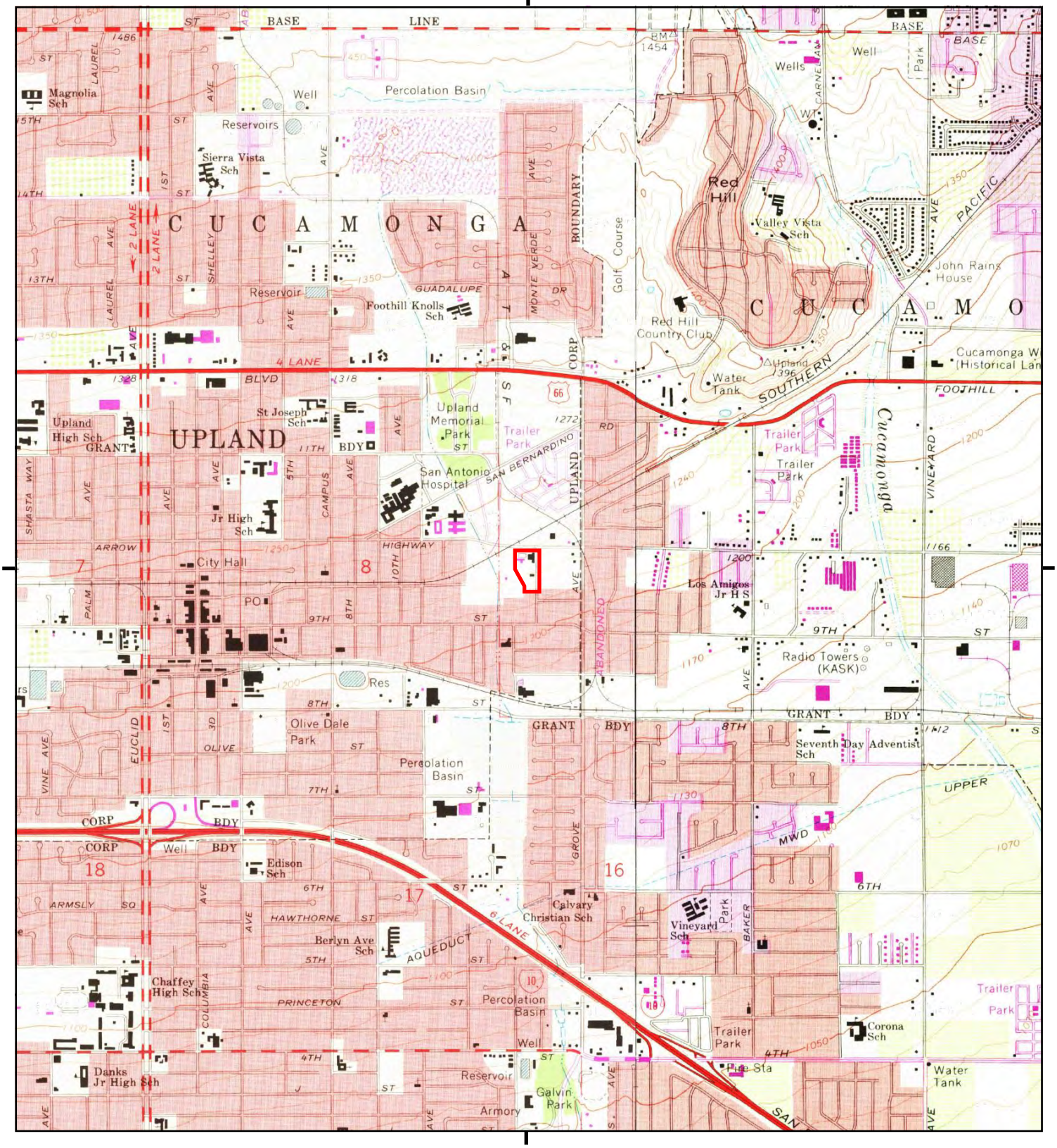
TP, ONTARIO, 1976, 15-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

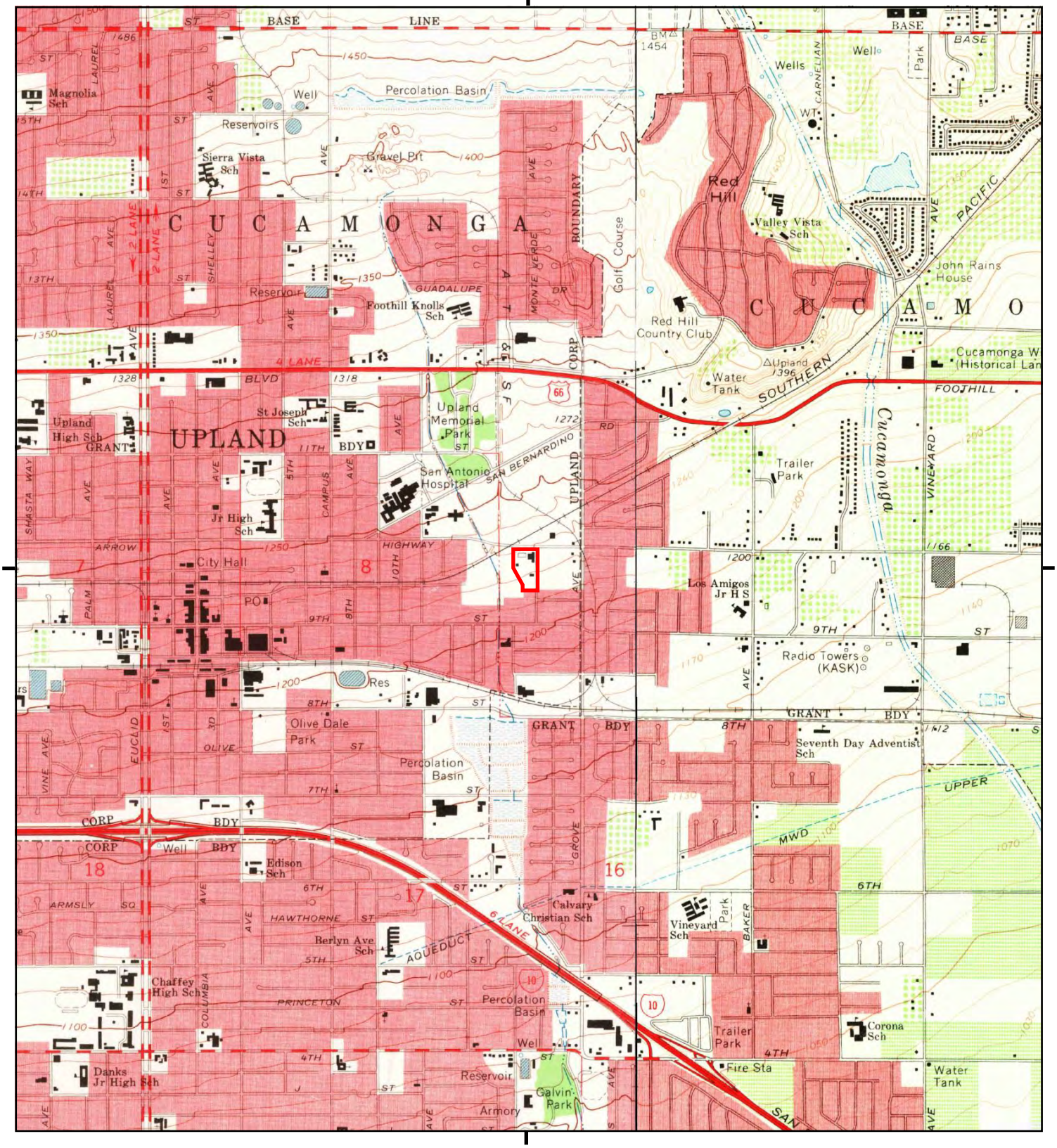
TP, Ontario, 1973, 7.5-minute
SE, Guasti, 1973, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1966, 1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

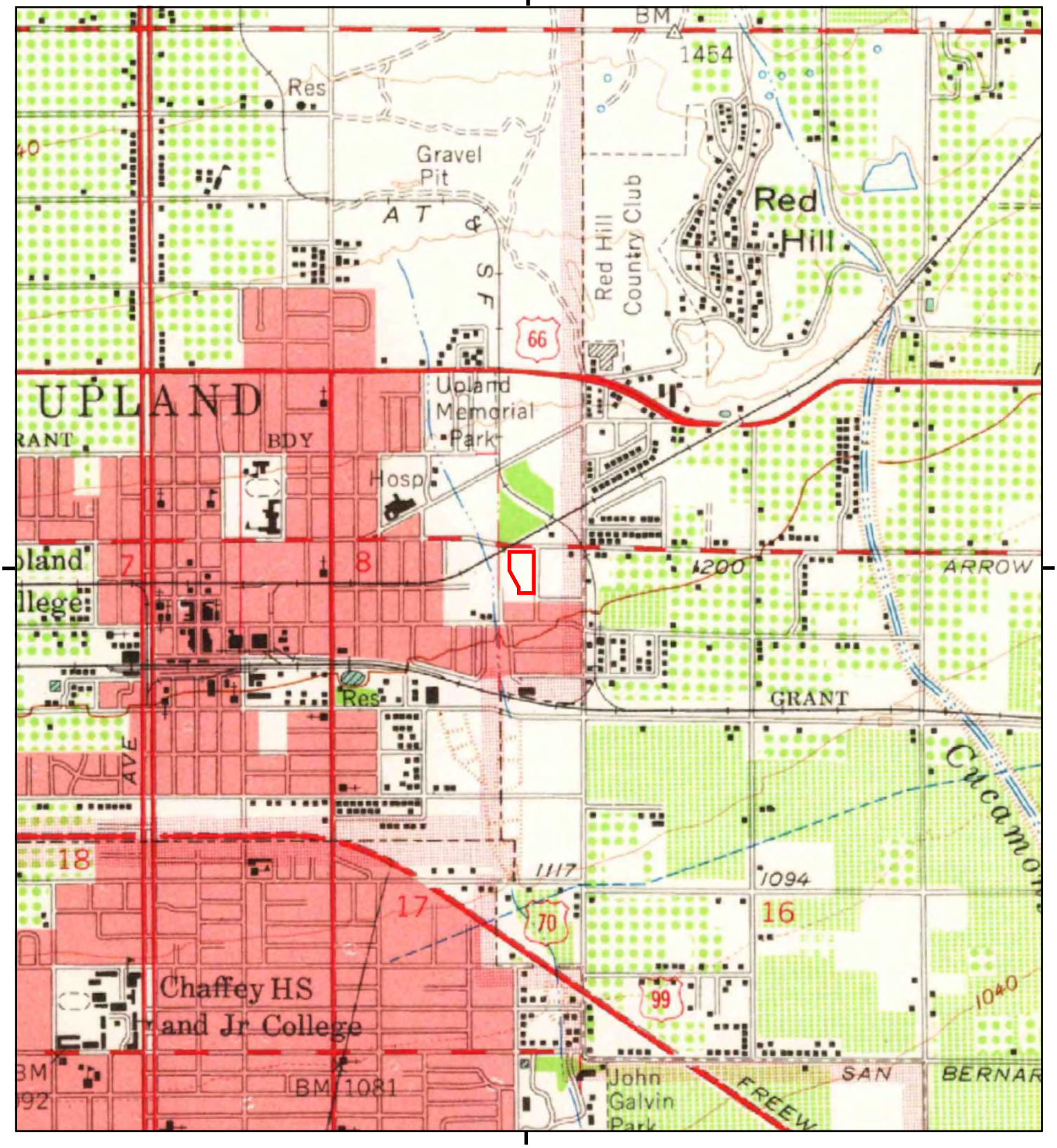
TP, Ontario, 1967, 7.5-minute
SE, Guasti, 1966, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

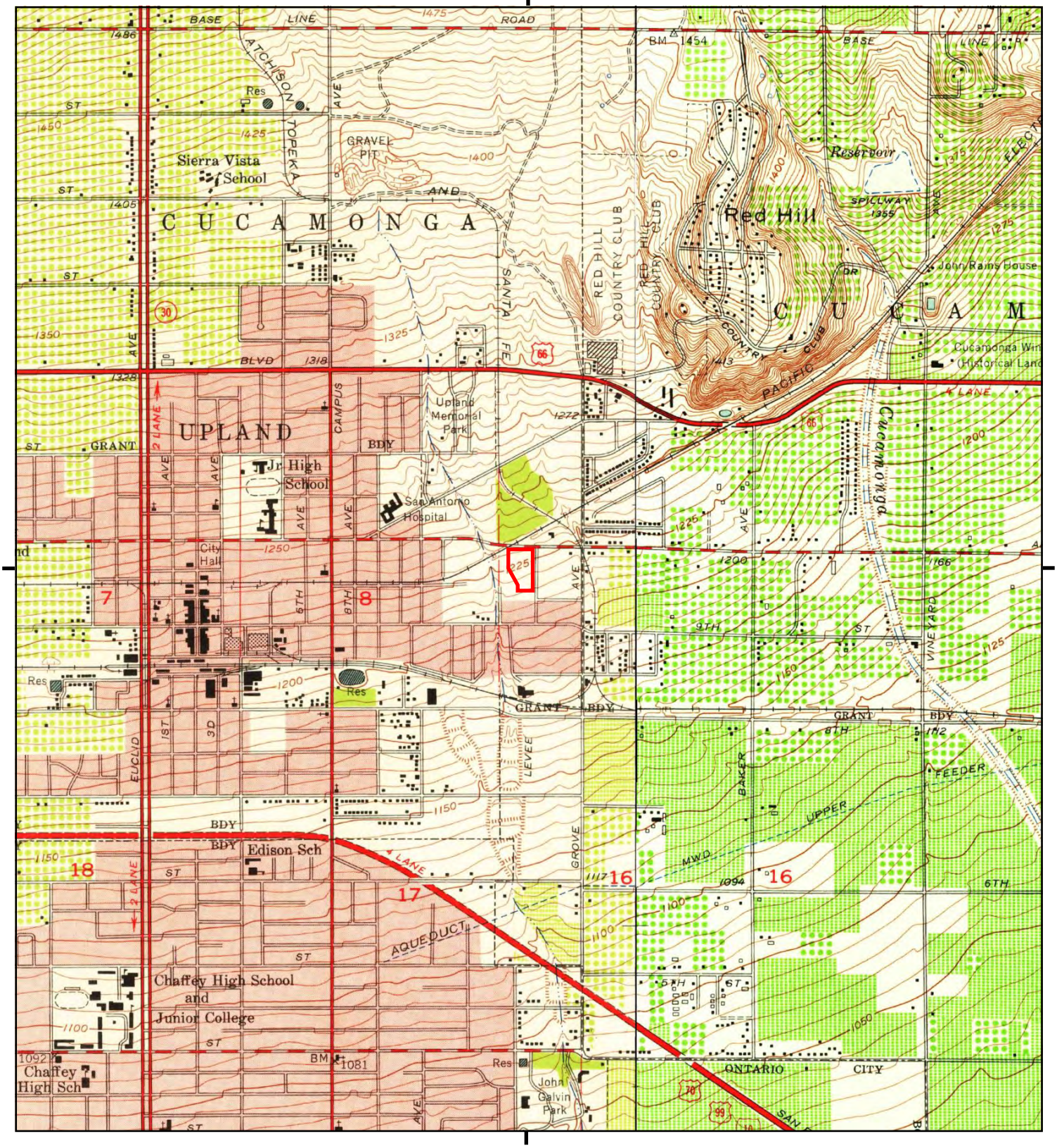
TP, Ontario, 1954, 15-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1953, 1954



This report includes information from the following map sheet(s).

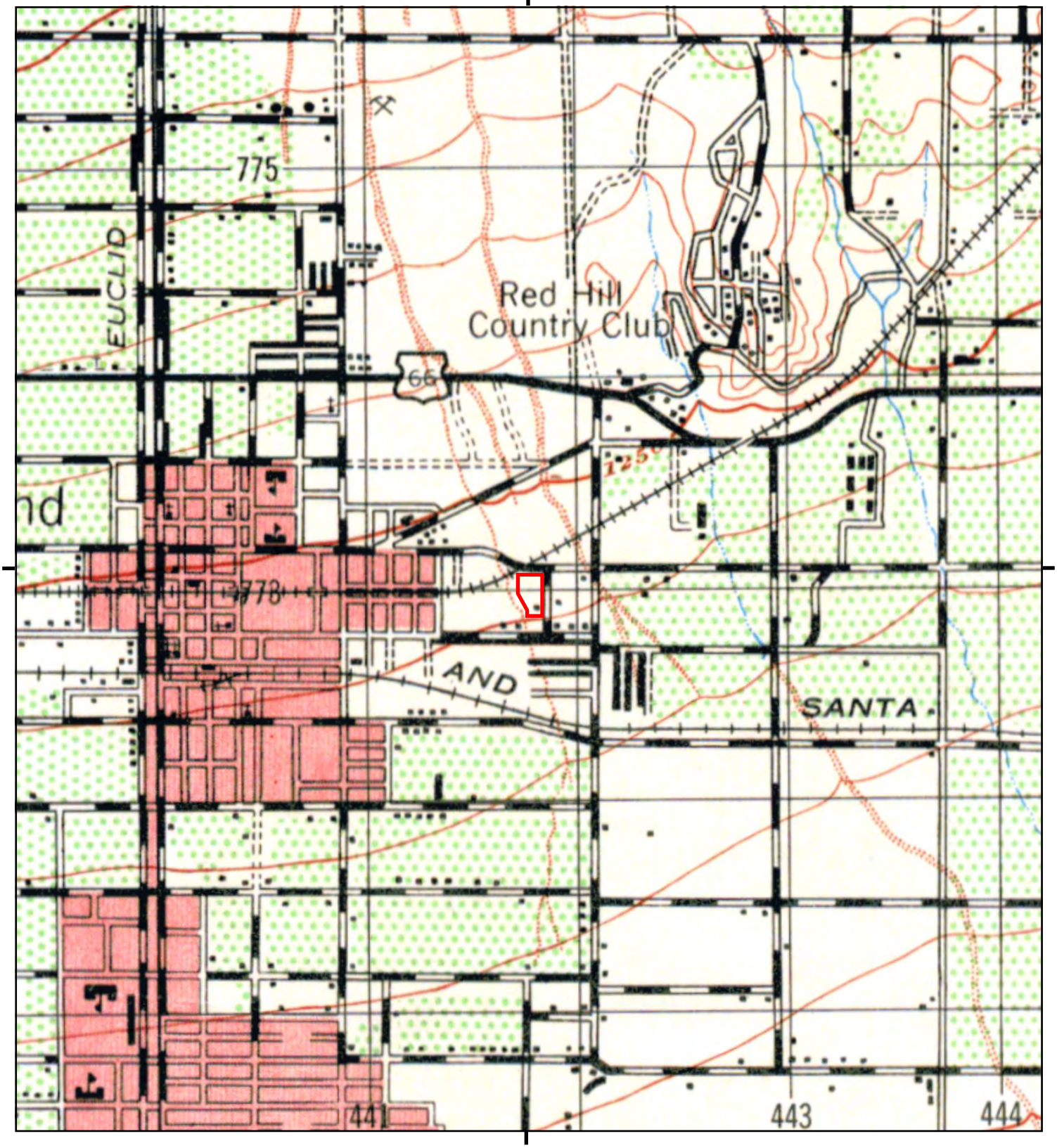
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ontario, 1954, 7.5-minute
SE, Guasti, 1953, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

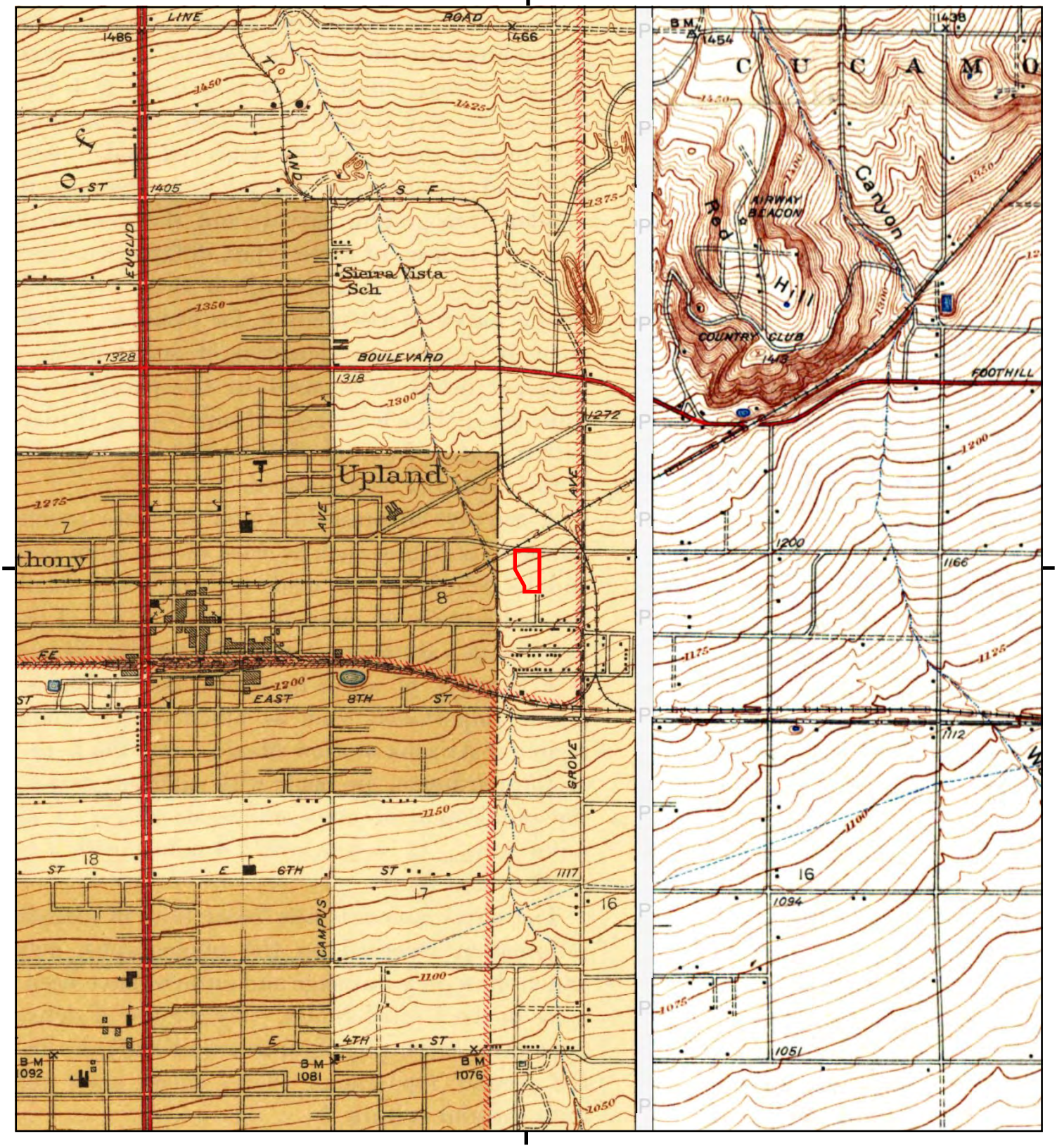
TP, CUCAMONGA, 1944, 15-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N

Historical Topo Map

1941, 1942



This report includes information from the following map sheet(s).

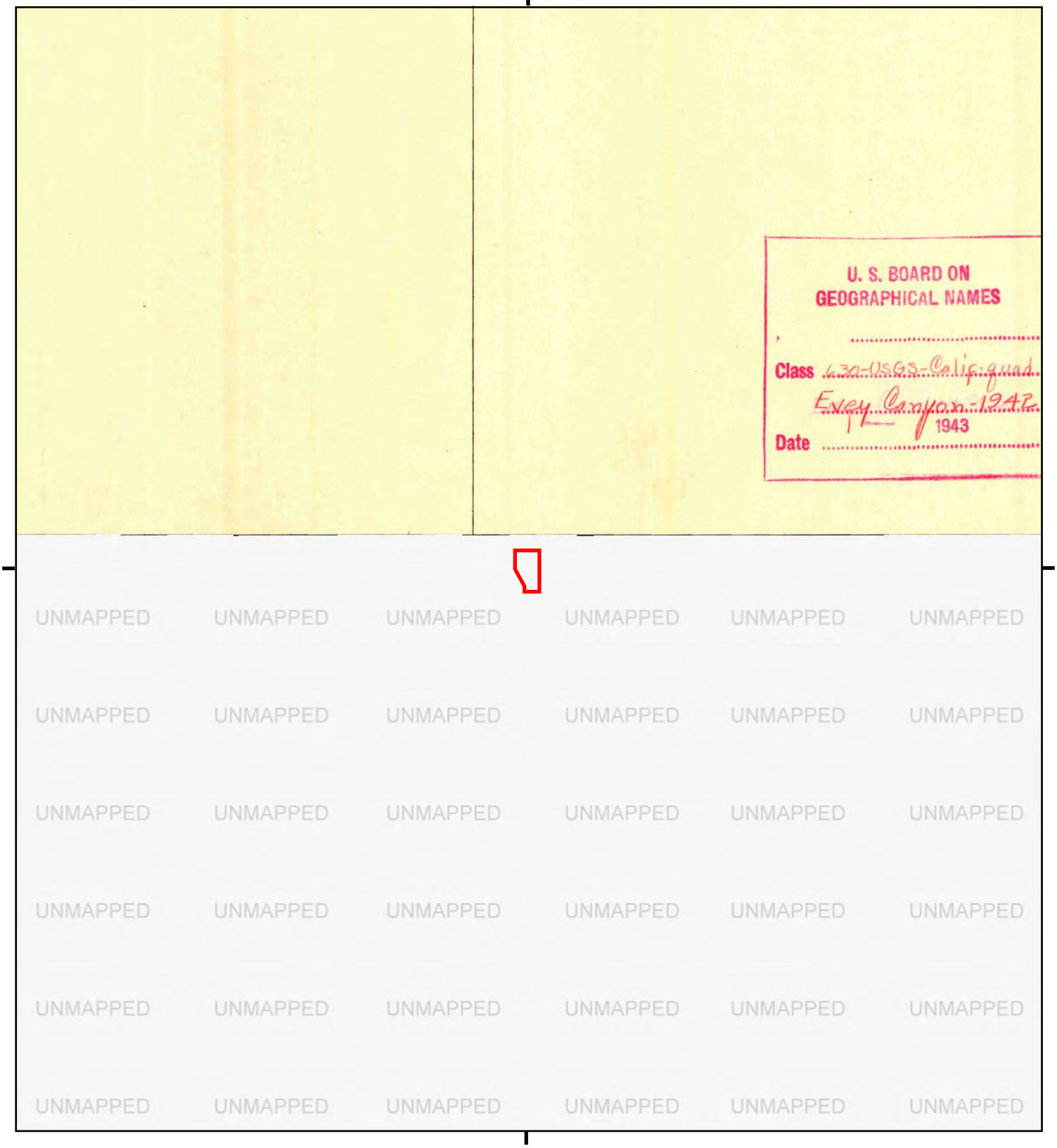
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ontario and Vicinity, 1942, 7.5-minute
E, GUASTI VICINITY, 1941, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

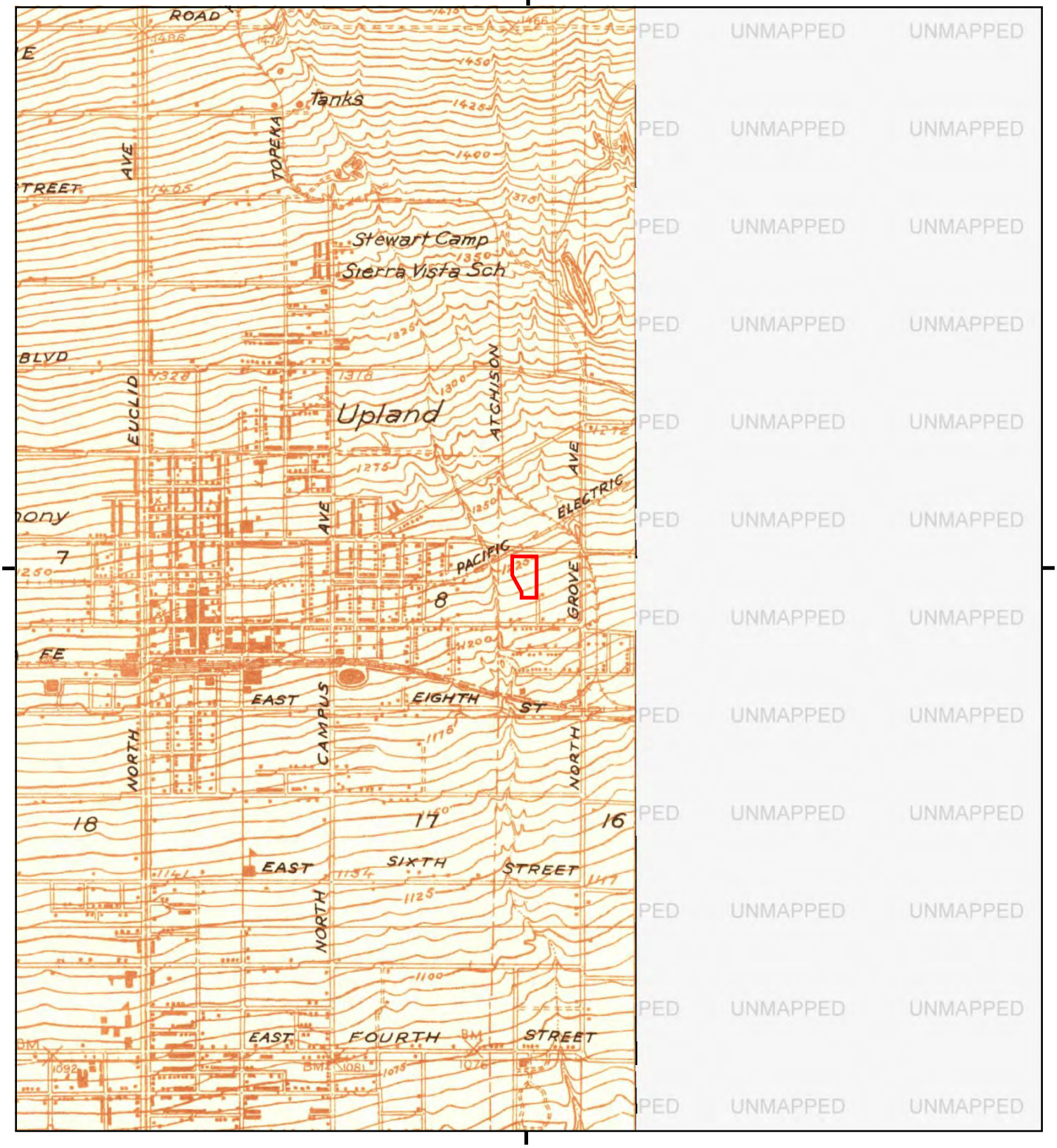
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

N, Evey Canyon, 1940, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

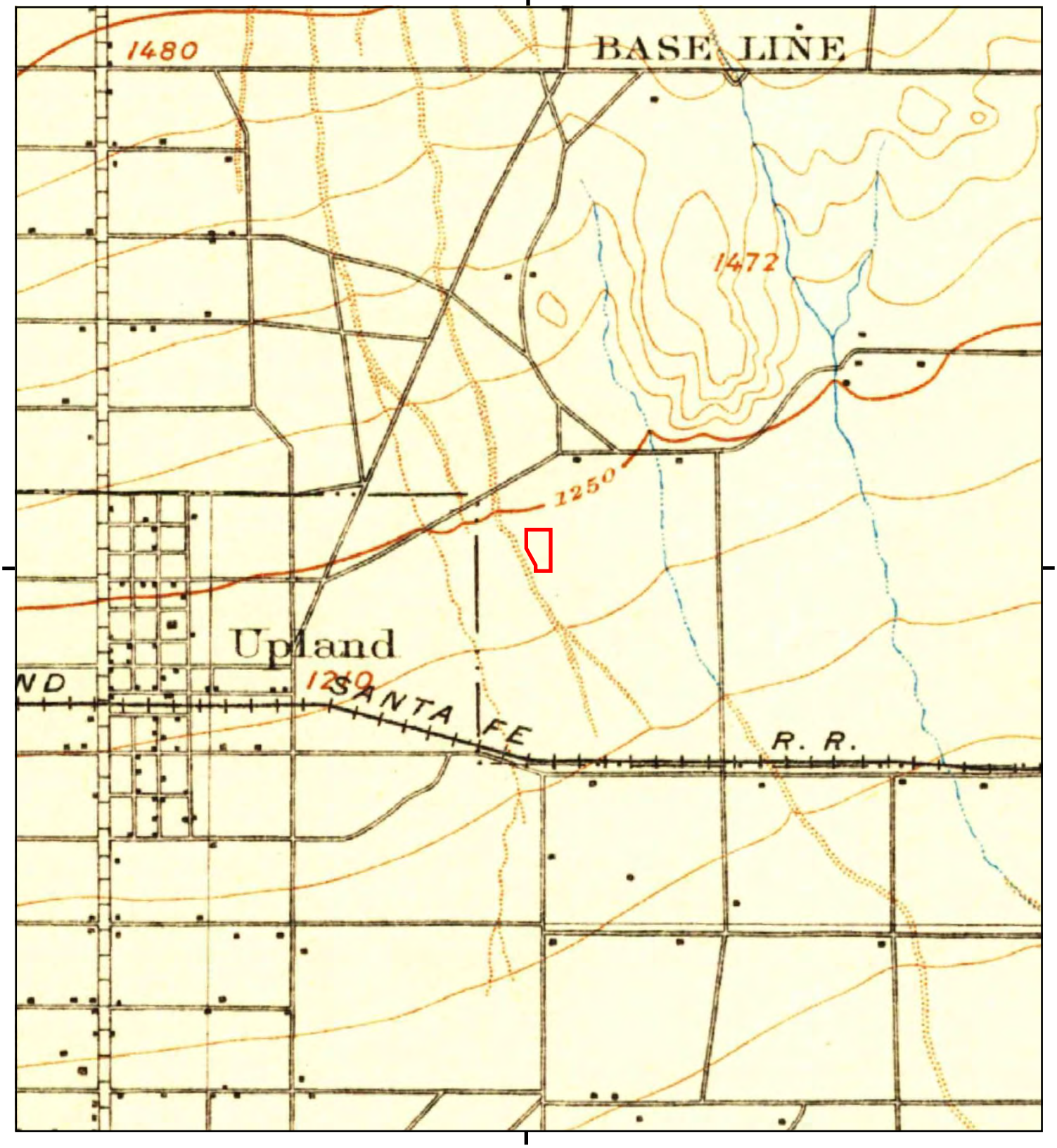
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ontario, 1933, 7.5-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

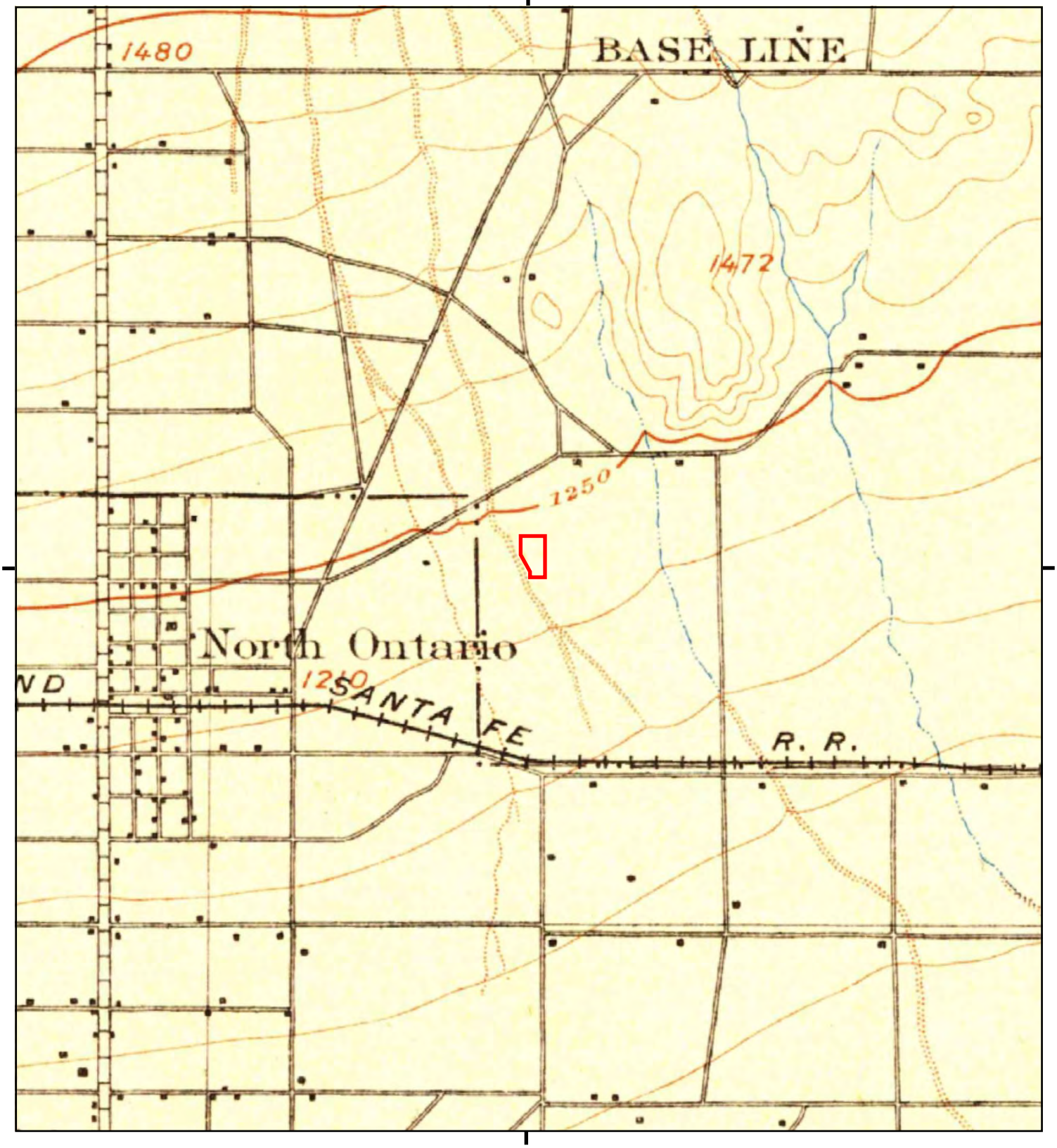
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1903, 15-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

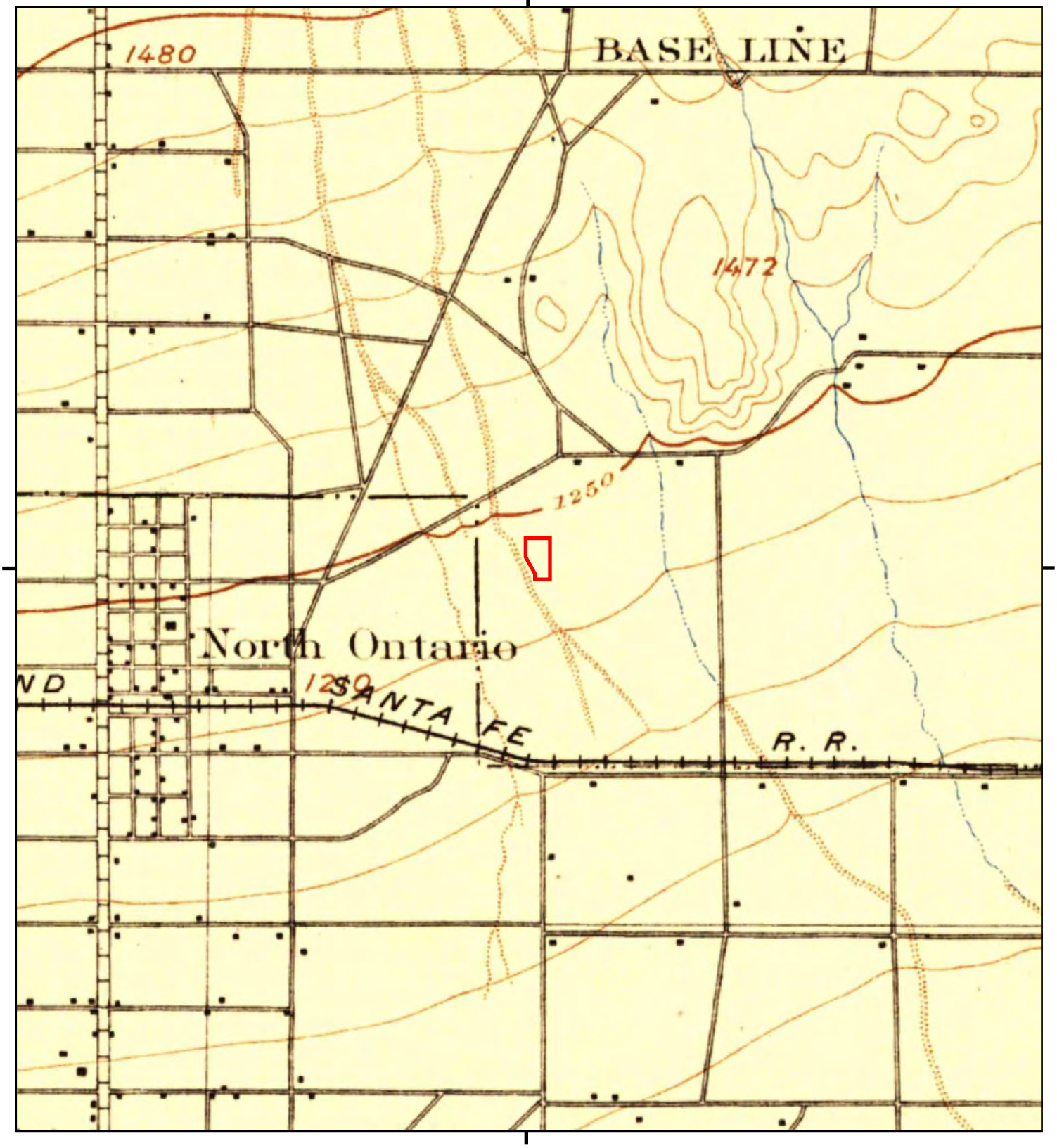
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1900, 15-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1897, 15-minute

SITE NAME: 1400 East Arrow Highway
ADDRESS: 1400 East Arrow Highway
Upland, CA 91786
CLIENT: Hillmann Environmental Co.

N

APPENDIX E

REGULATORY RECORDS DOCUMENTATION

1400 East Arrow Highway
1400 East Arrow Highway
Upland, CA 91786

Inquiry Number: 06485192.2r
May 10, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	271
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-11
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.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1400 EAST ARROW HIGHWAY
UPLAND, CA 91786

COORDINATES

Latitude (North):	34.0985730 - 34° 5' 54.86''
Longitude (West):	117.6313750 - 117° 37' 52.95''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	441759.6
UTM Y (Meters):	3773070.8
Elevation:	1225 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619074 ONTARIO, CA
Version Date:	2012
Southeast Map:	5620426 GUASTI, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1400 EAST ARROW HIGHWAY
UPLAND, CA 91786

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	BOYD LBR CO.	1400 E ARROW HWY	HIST UST		TP
A2	TACONIC	1400 ARROW HIGHWAY	SWEEPS UST, ICIS, US AIRS, FINDS, ECHO, WDS		TP
A3	ARROW LUMBER INC	1400 E ARROW HIGHWAY	FINDS		TP
A4	ARROW LUMBER	1400 E ARROW HWY	HWTS		TP
A5	BUTCHERS BLOCK & BUI	1400 E ARROW HWY	HWTS		TP
A6	1X BOYD LUMBER COMPA	1400 EAST ARROW HIGH	HAZNET, HWTS		TP
A7	BOYD LUMBER CO	1400 E ARROW HWY	SWEEPS UST, HIST UST, CA FID UST		TP
A8	R.F. WHITE CO.	1401 ARROW HWY	LUST	Higher	1 ft.
9	CHEROKEE WOOD PRODUC	1390 E ARROW HWY	RCRA NonGen / NLR	Lower	136, 0.026, WSW
B10	RF WHITE CO.	1401 E ARROW HWY	RCRA NonGen / NLR	Higher	137, 0.026, NE
B11	RF WHITE CO INC	1401 E ARROW HWY	LUST, AST, HIST UST, NPDES, San Bern. Co. Permit,...	Higher	137, 0.026, NE
B12	R F WHITE CO INC #29	1401 E ARROW HWY	UST, SWEEPS UST	Higher	137, 0.026, NE
B13	R F WHITE CO INC #29	1401 E ARROW HWY	CERS HAZ WASTE, CA FID UST, CERS TANKS, EMI, CERS	Higher	137, 0.026, NE
B14	R.F. WHITE CO.	1401 E ARROW HWY	Cortese, WDS, CERS	Higher	137, 0.026, NE
15	A AND L TRUCKING	1471 ARROW HWY	LUST, SWEEPS UST, CA FID UST, Cortese, HIST...	Higher	458, 0.087, ENE
C16	FUTURE MARINE	1364 EAST NINTH STRE	HIST UST	Lower	594, 0.112, South
C17	FUTURE MARINE	1364 E 9TH ST	HIST UST	Lower	594, 0.112, South
C18	RODES WAY BOATS INC	1346 E 9TH ST	RCRA NonGen / NLR	Lower	615, 0.116, SSW
C19	FURTURE MARINE & FAB	1346 E 9TH ST	EMI, San Bern. Co. Permit, WDS, CIWQS	Lower	615, 0.116, SSW
C20	UPLAND BOAT DEVELOPM	1346 E. 9TH ST	RCRA NonGen / NLR	Lower	615, 0.116, SSW
D21	DON VEVERKA'S AUTO S	1462 E 9TH ST	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	710, 0.134, SSE
D22	DON VEVERKAS AUTO SE	1462 E 9TH ST	RCRA NonGen / NLR	Lower	710, 0.134, SSE
C23	FUTURE MARINE	1364 E 009TH ST	SWEEPS UST, CA FID UST	Lower	750, 0.142, SSW
24	RICHY AGAJANIAN M.D.	591 N 13TH AVE STE 5	RCRA NonGen / NLR	Higher	754, 0.143, NW
E25	LEE WISE GARAGE, INC	8517 GROVE AVE STE 2	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Lower	814, 0.154, East
E26	AL'S GARAGE	8517 GROVE AVE	RCRA NonGen / NLR	Lower	814, 0.154, East
E27	DON CORTEZ TIRE SERV	8517 N GROVE AVE	San Bern. Co. Permit	Lower	814, 0.154, East
E28	LUPE&JOHNNY'S BODY S	8517 GROVE AVE	RCRA NonGen / NLR	Lower	814, 0.154, East
F29	UPLAND CONVALESCENT	1221 E ARROW HWY	SWEEPS UST, HIST UST, CA FID UST	Higher	852, 0.161, WNW
F30	UPLAND CONVALESCENT	1221 E ARROW HWY	HIST UST	Higher	852, 0.161, WNW
G31	HENRY'S LAWNMOWER SH	1294 E 9TH ST	San Bern. Co. Permit	Lower	882, 0.167, SW
G32	TITAN CONSOLIDATED I	1279 E 9TH ST	San Bern. Co. Permit	Lower	902, 0.171, SW
G33	TITAN CONSOLIDATED I	1279 E 9TH ST	RCRA NonGen / NLR	Lower	902, 0.171, SW
F34	UPLAND ORTHOPEDIC ME	1230 E ARROW HWY	San Bern. Co. Permit	Higher	965, 0.183, WNW
D35	CITY OF RANCHO CUCAM	111 GROVE AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Lower	984, 0.186, SSE
D36	MAINTENANCE YARD	111 GROVE AVE	HIST UST	Lower	984, 0.186, SSE
H37	SAN ANTONIO MEDICAL	685 N 13TH AVE	RCRA-SQG, FINDS, ECHO, San Bern. Co. Permit	Higher	1086, 0.206, NW
H38	PARKSIDE MEDICAL GRO	1310 SAN BERNARDINO	RCRA NonGen / NLR	Higher	1091, 0.207, NNW
I39	JIM'S TEXACO	8715 GROVE ST	SWEEPS UST, HIST UST, CA FID UST	Lower	1101, 0.209, SE

MAPPED SITES SUMMARY

Target Property Address:
1400 EAST ARROW HIGHWAY
UPLAND, CA 91786

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
I40	JIM'S TEXACO	8715 GROVE AVE	LUST, Cortese, HIST CORTESE	Lower	1101, 0.209, SE
I41	JIM'S TEXACO	8715 GROVE AVE	HIST UST, CERS	Lower	1101, 0.209, SE
J42	CALIFORNIA CONCRETE	1337 BOWEN ST	LUST, HIST UST, HIST CORTESE, San Bern. Co....	Lower	1223, 0.232, SSW
J43	CALIFORNIA CONCRETE	1337 BOWEN ST	CA FID UST	Lower	1223, 0.232, SSW
J44	PARAGON BUILDING PRO	1337 BOWEN ST	LUST, SWEEPS UST, Cortese	Lower	1223, 0.232, SSW
K45	EDWARD H PARK MD A M	1330 SAN BERNARDINO	RCRA NonGen / NLR	Higher	1272, 0.241, NNW
K46	GREGORY SUELZLE MD A	1330 SAN BERNARDINO	RCRA NonGen / NLR	Higher	1272, 0.241, NNW
K47	JAMES C HO MD MEDICA	1330 SAN BERNARDINO	RCRA NonGen / NLR	Higher	1272, 0.241, NNW
48	SAN ANTONIO REGIONAL	999 SAN BERNARDINO R	RCRA-LQG, ENVIROSTOR, UST, AST, SWEEPS UST, CA FID...	Higher	1908, 0.361, WNW
49	INLAND CONTAINER COR	N/A	CPS-SLIC, CERS	Lower	2214, 0.419, SSE
50	WESTERN MOLDINGS, IN	1111 EAST 8TH STREET	ENVIROSTOR	Lower	2340, 0.443, SW
51	UPLAND THRALL HALL U	1284 E. SEVENTH STRE	ENVIROSTOR	Lower	3265, 0.618, SSE
52	REBEL BRANDS INC	420 S 11TH AVE	ENVIROSTOR, LUST, VCP, CERS HAZ WASTE, HIST UST,...	Lower	3721, 0.705, SSW
53	NEW MIDDLE SCHOOL NO	SIXTH STREET/AMADOR	ENVIROSTOR, SCH	Lower	4644, 0.880, SSE

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
BOYD LBR CO. 1400 E ARROW HWY UPLAND, CA 91786	HIST UST Facility Id: 00000009105	N/A
TACONIC 1400 ARROW HIGHWAY LA VERNE, CA 91750	SWEEPS UST Status: A Tank Status: A Comp Number: 2771 ICIS FRS ID:: 110000478073 US AIRS Database: US AIRS (AFS), Date of Government Version: 10/12/2016 EPA plant ID:: 110000478073 FINDS Registry ID:: 110000478073 ECHO Registry ID: 110000478073 WDS Facility Status: A Facility Id: 8 36I017484	N/A
ARROW LUMBER INC 1400 E ARROW HIGHWAY UPLAND, CA 91786	FINDS Registry ID:: 110070317046	N/A
ARROW LUMBER 1400 E ARROW HWY UPLAND, CA 91786	HWTS	N/A
BUTCHERS BLOCK & BUI 1400 E ARROW HWY UPLAND, CA 91786	HWTS	N/A
1X BOYD LUMBER COMPA 1400 EAST ARROW HIGH UPLAND, CA 91786	HAZNET GEPAID: CAC000507848 HWTS	N/A
BOYD LUMBER CO 1400 E ARROW HWY UPLAND, CA 91786	SWEEPS UST Comp Number: 9105 HIST UST CA FID UST	N/A

EXECUTIVE SUMMARY

Facility Id: 36001690
Status: I

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-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

EXECUTIVE SUMMARY

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

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
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 Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
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
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites

US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
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 MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities

EXECUTIVE SUMMARY

EMI ---------- Emissions Inventory Data
ENF ---------- Enforcement Action Listing
Financial Assurance ---------- Financial Assurance Information Listing
ICE ---------- ICE
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
WIP ---------- Well Investigation Program Case List
MILITARY PRIV SITES ---------- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---------- PROJECT (GEOTRACKER)
WDR ---------- Waste Discharge Requirements Listing
CIWQS ---------- California Integrated Water Quality System
CERS ---------- CERS
NON-CASE INFO ---------- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---------- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---------- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---------- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---------- Well Stimulation Project (GEOTRACKER)
MINES MRDS ---------- Mineral Resources Data 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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/14/2020 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN ANTONIO MEDICAL EPA ID:: CAD983641960	***685 N 13TH AVE***	***NW 1/8 - 1/4 (0.206 mi.)***	***H37***	***151***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF RANCHO CUCAM EPA ID:: CAR000013763	***111 GROVE AVE***	***SSE 1/8 - 1/4 (0.186 mi.)***	***D35***	***137***

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 identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/25/2021 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN ANTONIO REGIONAL Facility Id: 71002559 Status: Inactive - Needs Evaluation	***999 SAN BERNARDINO R***	***WNW 1/4 - 1/2 (0.361 mi.)***	***48***	***178***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WESTERN MOLDINGS, IN Facility Id: 36340063 Status: Active	1111 EAST 8TH STREET	SW 1/4 - 1/2 (0.443 mi.)	50	234
UPLAND THRALL HALL U Facility Id: 36970010	1284 E. SEVENTH STRE	SSE 1/2 - 1 (0.618 mi.)	51	235

Status: No Further Action

REBEL BRANDS INC ***420 S 11TH AVE*** ***SSW 1/2 - 1 (0.705 mi.)*** ***52*** ***237***
Facility Id: 60002930
Status: Active

NEW MIDDLE SCHOOL NO ***SIXTH STREET/AMADOR*** ***SSE 1/2 - 1 (0.880 mi.)*** ***53*** ***267***
Facility Id: 36070009
Status: No Further Action

State and tribal leaking storage tank lists

LUST: 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.

A review of the LUST list, as provided by EDR, has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R.F. WHITE CO.	1401 ARROW HWY	0 - 1/8 (0.000 mi.)	A8	44
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Remediation Plan Global ID: T0607100294				
RF WHITE CO INC	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B11***	***50***
Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Global Id: T0607100294				
A AND L TRUCKING	***1471 ARROW HWY***	***ENE 0 - 1/8 (0.087 mi.)***	***15***	***82***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100261 Global ID: T0607100261				

Lower Elevation	Address	Direction / Distance	Map ID	Page
JIM'S TEXACO	***8715 GROVE AVE***	***SE 1/8 - 1/4 (0.209 mi.)***	***I40***	***159***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100365 Global ID: T0607100365				
CALIFORNIA CONCRETE	***1337 BOWEN ST***	***SSW 1/8 - 1/4 (0.232 mi.)***	***J42***	***164***
Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Global Id: T0607100329				
PARAGON BUILDING PRO	***1337 BOWEN ST***	***SSW 1/8 - 1/4 (0.232 mi.)***	***J44***	***168***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed				

EXECUTIVE SUMMARY

Global ID: T0607100329

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
INLAND CONTAINER COR	***N/A***	***SSE 1/4 - 1/2 (0.419 mi.)***	***49***	***233***
Database: SLIC REG 8, Date of Government Version: 04/03/2008				
Facility Status: Closed				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R F WHITE CO INC #29	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B12***	***63***
Database: UST, Date of Government Version: 03/08/2021				
Facility Id: FA0005524				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RF WHITE CO INC	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B11***	***50***
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

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.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/20/2021 has revealed that there are 3 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R F WHITE CO INC #29	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B13***	***65***

Lower Elevation	Address	Direction / Distance	Map ID	Page
DON VEVERKA'S AUTO S	***1462 E 9TH ST***	***SSE 1/8 - 1/4 (0.134 mi.)***	***D21***	***96***
LEE WISE GARAGE, INC	***8517 GROVE AVE STE 2***	***E 1/8 - 1/4 (0.154 mi.)***	***E25***	***107***

Local Lists of Registered Storage Tanks

SWEEPS UST: 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.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 6 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R F WHITE CO INC #29 Status: A Tank Status: A Comp Number: 9384	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B12***	***63***
A AND L TRUCKING Status: A Tank Status: A Comp Number: 10735	***1471 ARROW HWY***	***ENE 0 - 1/8 (0.087 mi.)***	***15***	***82***
UPLAND CONVALESCENT Status: A Tank Status: A Comp Number: 204	***1221 E ARROW HWY***	***WNW 1/8 - 1/4 (0.161 mi.)***	***F29***	***128***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FUTURE MARINE Status: A Tank Status: A Comp Number: 6072	***1364 E 009TH ST***	***SSW 1/8 - 1/4 (0.142 mi.)***	***C23***	***103***
JIM'S TEXACO Status: A Tank Status: A Comp Number: 136	***8715 GROVE ST***	***SE 1/8 - 1/4 (0.209 mi.)***	***I39***	***156***
PARAGON BUILDING PRO Comp Number: 9380	***1337 BOWEN ST***	***SSW 1/8 - 1/4 (0.232 mi.)***	***J44***	***168***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 9 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RF WHITE CO INC	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B11***	***50***
Facility Id: 00000009384				
UPLAND CONVALESCENT	***1221 E ARROW HWY***	***WNW 1/8 - 1/4 (0.161 mi.)***	***F29***	***128***
UPLAND CONVALESCENT	1221 E ARROW HWY	WNW 1/8 - 1/4 (0.161 mi.)	F30	129
Facility Id: 00000000204				

Lower Elevation	Address	Direction / Distance	Map ID	Page
FUTURE MARINE	1364 EAST NINTH STRE	S 0 - 1/8 (0.112 mi.)	C16	86
FUTURE MARINE	1364 E 9TH ST	S 0 - 1/8 (0.112 mi.)	C17	87
Facility Id: 00000006072				
MAINTENANCE YARD	111 GROVE AVE	SSE 1/8 - 1/4 (0.186 mi.)	D36	150
Facility Id: 00000034402				
JIM'S TEXACO	***8715 GROVE ST***	***SE 1/8 - 1/4 (0.209 mi.)***	***I39***	***156***
JIM'S TEXACO	***8715 GROVE AVE***	***SE 1/8 - 1/4 (0.209 mi.)***	***I41***	***162***
Facility Id: 00000000136				
CALIFORNIA CONCRETE	***1337 BOWEN ST***	***SSW 1/8 - 1/4 (0.232 mi.)***	***J42***	***164***
Facility Id: 00000001706				

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 6 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R F WHITE CO INC #29	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B13***	***65***
Facility Id: 36008488				
Status: A				
A AND L TRUCKING	***1471 ARROW HWY***	***ENE 0 - 1/8 (0.087 mi.)***	***15***	***82***
Facility Id: 36000411				
Status: A				
UPLAND CONVALESCENT	***1221 E ARROW HWY***	***WNW 1/8 - 1/4 (0.161 mi.)***	***F29***	***128***
Facility Id: 36008251				
Status: A				

Lower Elevation	Address	Direction / Distance	Map ID	Page
FUTURE MARINE	***1364 E 009TH ST***	***SSW 1/8 - 1/4 (0.142 mi.)***	***C23***	***103***
Facility Id: 36008358				
Status: A				
JIM'S TEXACO	***8715 GROVE ST***	***SE 1/8 - 1/4 (0.209 mi.)***	***I39***	***156***
Facility Id: 36008249				
Status: A				
CALIFORNIA CONCRETE	1337 BOWEN ST	SSW 1/8 - 1/4 (0.232 mi.)	J43	167

EXECUTIVE SUMMARY

Facility Id: 36008317
Status: A

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.

A review of the CERS TANKS list, as provided by EDR, and dated 01/20/2021 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R F WHITE CO INC #29	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B13***	***65***

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 there are 13 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RF WHITE CO. EPA ID:: CAL000209412	1401 E ARROW HWY	NE 0 - 1/8 (0.026 mi.)	B10	48
RICHY AGAJANIAN M.D. EPA ID:: CAL000438533	591 N 13TH AVE STE 5	NW 1/8 - 1/4 (0.143 mi.)	24	104
PARKSIDE MEDICAL GRO EPA ID:: CAL000386917	1310 SAN BERNARDINO	NNW 1/8 - 1/4 (0.207 mi.)	H38	154
EDWARD H PARK MD A M EPA ID:: CAL000440768	1330 SAN BERNARDINO	NNW 1/8 - 1/4 (0.241 mi.)	K45	170
GREGORY SUELZLE MD A EPA ID:: CAL000336265	1330 SAN BERNARDINO	NNW 1/8 - 1/4 (0.241 mi.)	K46	173
JAMES C HO MD MEDICA	1330 SAN BERNARDINO	NNW 1/8 - 1/4 (0.241 mi.)	K47	175

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHEROKEE WOOD PRODUC EPA ID:: CAL000270834	1390 E ARROW HWY	WSW 0 - 1/8 (0.026 mi.)	9	45
RODES WAY BOATS INC EPA ID:: CAL000341260	1346 E 9TH ST	SSW 0 - 1/8 (0.116 mi.)	C18	88
UPLAND BOAT DEVELOPM	1346 E. 9TH ST	SSW 0 - 1/8 (0.116 mi.)	C20	94
DON VEVERKAS AUTO SE EPA ID:: CAL000344583	1462 E 9TH ST	SSE 1/8 - 1/4 (0.134 mi.)	D22	101
AL'S GARAGE EPA ID:: CAL000436017	8517 GROVE AVE	E 1/8 - 1/4 (0.154 mi.)	E26	122
LUPE&JOHNNY'S BODY S	8517 GROVE AVE	E 1/8 - 1/4 (0.154 mi.)	E28	125

EPA ID:: CAL000037220

TITAN CONSOLIDATED I EPA ID:: CAR000141143	1279 E 9TH ST	SW 1/8 - 1/4 (0.171 mi.)	G33	131

Cortese: 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).

A review of the Cortese list, as provided by EDR, and dated 12/17/2020 has revealed that there are 4 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R.F. WHITE CO. Cleanup Status: COMPLETED - CASE CLOSED	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B14***	***80***
A AND L TRUCKING Cleanup Status: COMPLETED - CASE CLOSED	***1471 ARROW HWY***	***ENE 0 - 1/8 (0.087 mi.)***	***15***	***82***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JIM'S TEXACO Cleanup Status: COMPLETED - CASE CLOSED	***8715 GROVE AVE***	***SE 1/8 - 1/4 (0.209 mi.)***	***I40***	***159***
PARAGON BUILDING PRO Cleanup Status: COMPLETED - CASE CLOSED	***1337 BOWEN ST***	***SSW 1/8 - 1/4 (0.232 mi.)***	***J44***	***168***

HIST CORTESE: 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.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 3 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
A AND L TRUCKING Reg Id: 083602103T	***1471 ARROW HWY***	***ENE 0 - 1/8 (0.087 mi.)***	***15***	***82***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JIM'S TEXACO Reg Id: 083602602T	***8715 GROVE AVE***	***SE 1/8 - 1/4 (0.209 mi.)***	***I40***	***159***
CALIFORNIA CONCRETE Reg Id: 083602457T	***1337 BOWEN ST***	***SSW 1/8 - 1/4 (0.232 mi.)***	***J42***	***164***

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 11/16/2020 has revealed that there are 10 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RF WHITE CO INC	***1401 E ARROW HWY***	***NE 0 - 1/8 (0.026 mi.)***	***B11***	***50***

Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0005524 Facility Id: FA0003951				
UPLAND ORTHOPEDIC ME Facility Status: INACTIVE Facility Id: FA0006957	1230 E ARROW HWY	WNW 1/8 - 1/4 (0.183 mi.)	F34	137
SAN ANTONIO MEDICAL Facility Status: INACTIVE Facility Id: FA0005881	***685 N 13TH AVE***	***NW 1/8 - 1/4 (0.206 mi.)***	***H37***	***151***

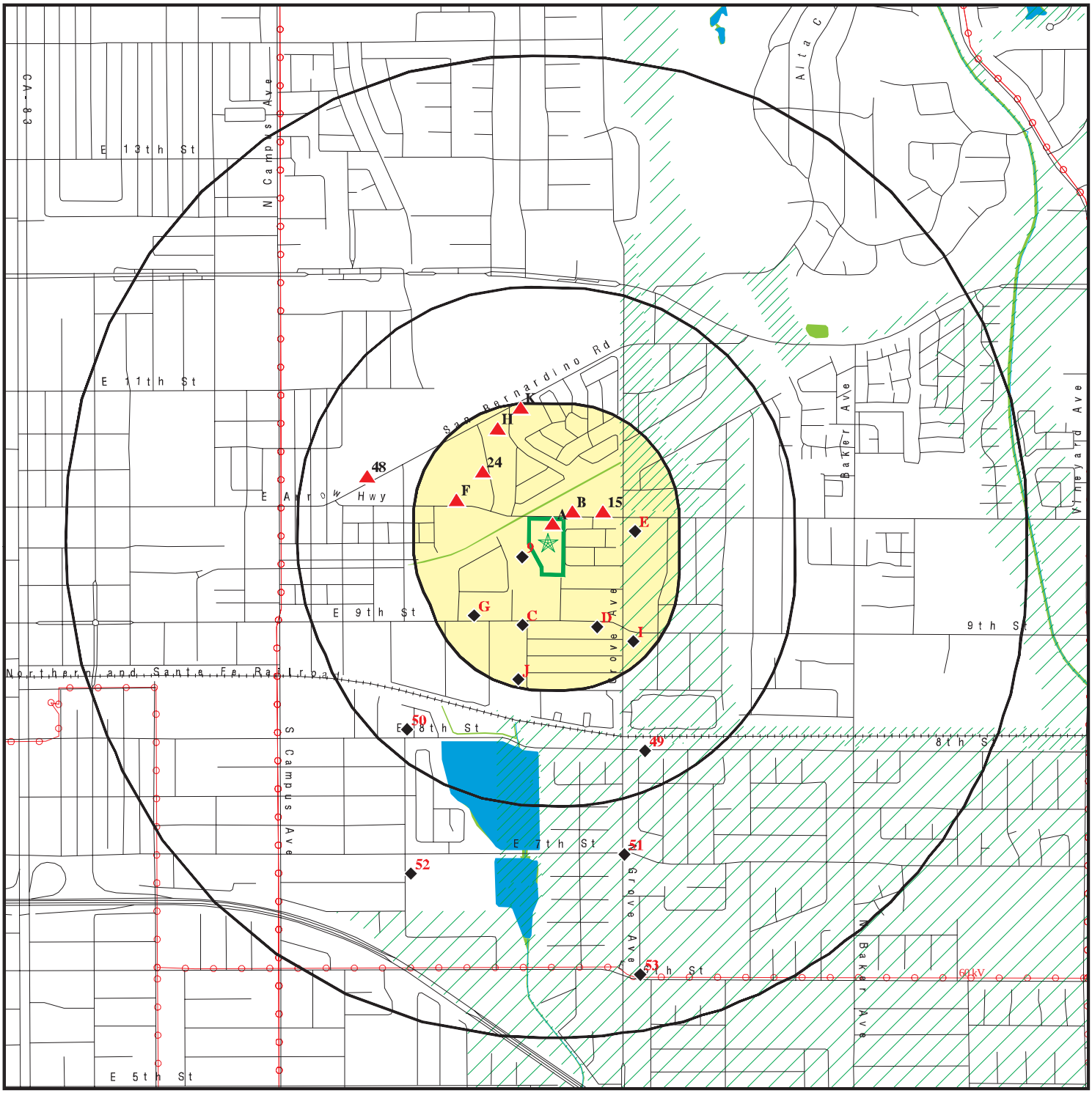
Lower Elevation	Address	Direction / Distance	Map ID	Page
FURTURE MARINE & FAB Facility Status: INACTIVE Facility Id: FA0003361	***1346 E 9TH ST***	***SSW 0 - 1/8 (0.116 mi.)***	***C19***	***90***
DON VEVERKA'S AUTO S Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0012617 Facility Id: FA0007396	***1462 E 9TH ST***	***SSE 1/8 - 1/4 (0.134 mi.)***	***D21***	***96***
LEE WISE GARAGE, INC Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0017917 Facility Id: FA0004404	***8517 GROVE AVE STE 2***	***E 1/8 - 1/4 (0.154 mi.)***	***E25***	***107***
DON CORTEZ TIRE SERV Facility Status: INACTIVE Facility Id: FA0004513	8517 N GROVE AVE	E 1/8 - 1/4 (0.154 mi.)	E27	125
HENRY'S LAWNMOWER SH Facility Status: INACTIVE Facility Id: FA0003748	1294 E 9TH ST	SW 1/8 - 1/4 (0.167 mi.)	G31	130
TITAN CONSOLIDATED I Facility Status: INACTIVE Facility Id: FA0010217	1279 E 9TH ST	SW 1/8 - 1/4 (0.171 mi.)	G32	130
CALIFORNIA CONCRETE Facility Status: INACTIVE Facility Id: FA0001706	***1337 BOWEN ST***	***SSW 1/8 - 1/4 (0.232 mi.)***	***J42***	***164***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 8 records.

Site Name	Database(s)
UPLAND LAUNDRY & CLEANERS	DRYCLEANERS, EMI, HWTS
CALIF. AIR NATIONAL GUARD	CPS-SLIC
G E ENGINE SERVICE	CPS-SLIC
NORTHROP (O)	CPS-SLIC
LOCKHEED (O)	CPS-SLIC
DOUGLAS AIRCRAFT CO	CPS-SLIC
ATSF RIGHT-OF-WAY	CPS-SLIC
CITY OF UPLAND SANITARY LANDFILL S	ODI

OVERVIEW MAP - 06485192.2R



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	1400 East Arrow Highway	CLIENT:	Hillmann Environmental Co.
ADDRESS:	1400 East Arrow Highway Upland CA 91786	CONTACT:	Davis Tang
		INQUIRY #:	06485192.2r
LAT/LONG:	34.098573 / 117.631375	DATE:	May 10, 2021 8:34 am

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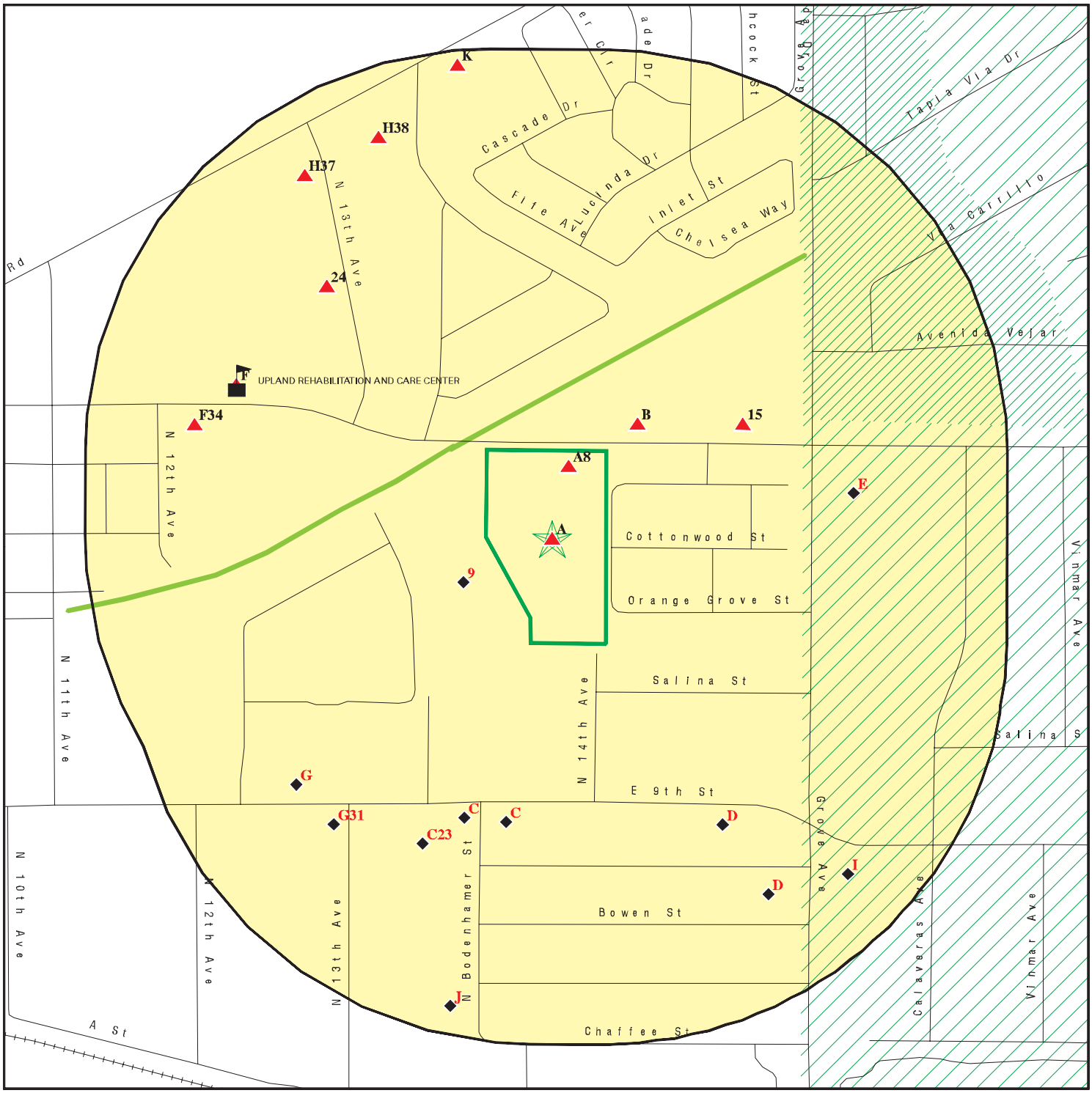
DETAIL MAP - 06485192.2R



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 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: 1400 East Arrow Highway	CLIENT: Hillmann Environmental Co.
ADDRESS: 1400 East Arrow Highway Upland CA 91786	CONTACT: Davis Tang INQUIRY #: 06485192.2r
LAT/LONG: 34.098573 / 117.631375	DATE: May 10, 2021 8:35 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
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
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	2	NR	NR	NR	2
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	2	3	NR	5
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		3	3	0	NR	NR	6

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	0	NR	NR	NR	1
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		1	2	NR	NR	NR	3
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	2	2	4	NR	NR	NR	8
HIST UST	0.250	2	3	6	NR	NR	NR	11
CA FID UST	0.250	1	2	4	NR	NR	NR	7
CERS TANKS	0.250		1	0	NR	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		4	9	NR	NR	NR	13
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	1	0	NR	NR	NR	NR	1
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	1	0	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	2	0	NR	NR	NR	NR	2
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
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		2	2	0	NR	NR	4
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	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		1	2	0	NR	NR	3
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
San Bern. Co. Permit	0.250		2	8	NR	NR	NR	10
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	1	0	NR	NR	NR	NR	1
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP	3	NR	NR	NR	NR	NR	3
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		15	23	42	3	3	0	86

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

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **BOYD LBR CO.** **HIST UST** **U001570654**
Target **1400 E ARROW HWY** **N/A**
Property **UPLAND, CA 91786**

Site 1 of 8 in cluster A

Actual:
1225 ft.

HIST UST:

Name:	BOYD LBR CO.
Address:	1400 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000009105
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	7149821577
Owner Name:	BOYD LBR CO.
Owner Address:	1400 E ARROW HIGHWAY
Owner City,St,Zip:	UPLAND, CA 91786
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1956
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	1979
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None

A2 **TACONIC** **SWEEPS UST** **1000407168**
Target **1400 ARROW HIGHWAY** **ICIS** **N/A**
Property **LA VERNE, CA 91750** **US AIRS**
FINDS

Site 2 of 8 in cluster A **ECHO**
WDS

Actual:
1225 ft.

SWEEPS UST:

Name:	SYNTHANE-TAYLOR CORP
Address:	1400 E ARROW HWY
City:	LA VERNE
Status:	Active
Comp Number:	2771
Number:	9
Board Of Equalization:	44-007666
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported

TACONIC (Continued) **1000407168**

SWRCB Tank Id: 19-000-002771-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 5

Name: SYNTHANE-TAYLOR CORP
Address: 1400 E ARROW HWY
City: LA VERNE
Status: Active
Comp Number: 2771
Number: 9
Board Of Equalization: 44-007666
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-002771-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: SYNTHANE-TAYLOR CORP
Address: 1400 E ARROW HWY
City: LA VERNE
Status: Active
Comp Number: 2771
Number: 9
Board Of Equalization: 44-007666
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-002771-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: SYNTHANE-TAYLOR CORP
Address: 1400 E ARROW HWY
City: LA VERNE
Status: Active
Comp Number: 2771
Number: 9
Board Of Equalization: 44-007666
Referral Date: 06-30-89

TACONIC (Continued) **1000407168**

Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-002771-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: SYNTHANE-TAYLOR CORP
Address: 1400 E ARROW HWY
City: LA VERNE
Status: Active
Comp Number: 2771
Number: 9
Board Of Equalization: 44-007666
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-002771-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

ICIS:
Enforcement Action ID: CASCAA0000060370040000080
FRS ID: 110000478073
Action Name: TONOGA INC, TACONIC DBA 060370040000080
Facility Name: TONOGA INC, TACONIC DBA
Facility Address: 1400 ARROW HWY
LA VERNE, CA 91750
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3088
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.10056
Longitude in Decimal Degrees: -117.78418
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700400
Facility NAICS Code: 326191
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370040000079
FRS ID: 110000478073
Action Name: TONOGA INC, TACONIC DBA 060370040000079
Facility Name: TONOGA INC, TACONIC DBA

TACONIC (Continued) **1000407168**

Facility Address: 1400 ARROW HWY
LA VERNE, CA 91750
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3088
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.10056
Longitude in Decimal Degrees: -117.78418
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700400
Facility NAICS Code: 326191
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370040000063
FRS ID: 110000478073
Action Name: TONOGA INC, TACONIC DBA 060370040000063
Facility Name: TONOGA INC, TACONIC DBA
Facility Address: 1400 ARROW HWY
LA VERNE, CA 91750
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3088
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.10056
Longitude in Decimal Degrees: -117.78418
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700400
Facility NAICS Code: 326191
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370040000062
FRS ID: 110000478073
Action Name: TONOGA INC, TACONIC DBA 060370040000062
Facility Name: TONOGA INC, TACONIC DBA
Facility Address: 1400 ARROW HWY
LA VERNE, CA 91750
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3088
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.10056
Longitude in Decimal Degrees: -117.78418
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700400
Facility NAICS Code: 326191
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370040000042

TACONIC (Continued) **1000407168**

FRS ID: 110000478073
Action Name: TONOGA INC, TACONIC DBA 060370040000042
Facility Name: TONOGA INC, TACONIC DBA
Facility Address: 1400 ARROW HWY
LA VERNE, CA 91750
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3088
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.10056
Longitude in Decimal Degrees: -117.78418
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700400
Facility NAICS Code: 326191
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370040000041
FRS ID: 110000478073
Action Name: TONOGA INC, TACONIC DBA 060370040000041
Facility Name: TONOGA INC, TACONIC DBA
Facility Address: 1400 ARROW HWY
LA VERNE, CA 91750
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3088
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.10056
Longitude in Decimal Degrees: -117.78418
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700400
Facility NAICS Code: 326191
Tribal Land Code: Not reported

US AIRS (AFS):
Envid: 1000407168
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
D and B Number: Not reported
Facility Site Name: TONOGA INC, TACONIC DBA
Primary SIC Code: 3088
NAICS Code: 326191
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):
Region Code: 09

TACONIC (Continued) **1000407168**

Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2006-08-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2008-12-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2010-05-13 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-11-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

TACONIC (Continued) **1000407168**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-10-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-11-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1981-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-05-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-08-09 00:00:00

TACONIC (Continued) **1000407168**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-05-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-12-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-10-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR

TACONIC (Continued) **1000407168**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-08-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-07-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-08-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

TACONIC (Continued) **1000407168**

Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-08-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-10-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-10-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

TACONIC (Continued) **1000407168**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-04-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-11-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-07-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-06 00:00:00

TACONIC (Continued) **1000407168**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR

TACONIC (Continued) **1000407168**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-07-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

TACONIC (Continued) **1000407168**

Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-04-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-07-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-08-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

TACONIC (Continued) **1000407168**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-10 00:00:00

TACONIC (Continued) **1000407168**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-11-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR

TACONIC (Continued) **1000407168**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-10-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-10-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-08-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-10-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

TACONIC (Continued) **1000407168**

Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-10-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-03-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-06 00:00:00
Activity Status Date: 2006-08-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-07-03 00:00:00
Activity Status Date: 2008-07-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-03-31 00:00:00
Activity Status Date: 2010-03-31 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal

TACONIC (Continued) **1000407168**

Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-04-04 00:00:00
Activity Status Date: 2006-04-04 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-12-14 00:00:00
Activity Status Date: 2007-12-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-12-02 00:00:00
Activity Status Date: 2009-12-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2006-08-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported

TACONIC (Continued) **1000407168**

Activity Status Date: 2008-12-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2010-05-13 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-11-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-06-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-12-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR

TACONIC (Continued) **1000407168**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-07-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-10-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-07-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

TACONIC (Continued) **1000407168**

Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

TACONIC (Continued) **1000407168**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-21 00:00:00

TACONIC (Continued) **1000407168**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-07-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR

TACONIC (Continued) **1000407168**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-08-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

TACONIC (Continued) **1000407168**

Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-11-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

TACONIC (Continued) **1000407168**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-10-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-10-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-03-27 00:00:00

TACONIC (Continued) **1000407168**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-08-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-10-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-10-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR

TACONIC (Continued) **1000407168**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-06 00:00:00
Activity Status Date: 2006-08-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-03 00:00:00
Activity Status Date: 2008-07-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-31 00:00:00
Activity Status Date: 2010-03-31 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-04-04 00:00:00
Activity Status Date: 2006-04-04 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700400
Facility Registry ID: 110000478073
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-12-14 00:00:00
Activity Status Date: 2007-12-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09

TACONIC (Continued) **1000407168**

Programmatic ID:	AIR CASCA0000603700400
Facility Registry ID:	110000478073
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2009-12-02 00:00:00
Activity Status Date:	2009-12-02 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

FINDS:
Registry ID: 110000478073

Click Here:

Environmental Interest/Information System:
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
AIR EMISSIONS CLASSIFICATION UNKNOWN
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
STATE MASTER
AIR MAJOR
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000407168
Registry ID: 110000478073

TACONIC (Continued) **1000407168**

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000478073
Name: TACONIC
Address: 1400 ARROW HIGHWAY
City,State,Zip: LA VERNE, CA 91750

WDS:
Name: CHEROKEE WOOD PROD
Address: 1400 E Arrow Hwy
City: UPLAND
Facility ID: Santa Ana River 36I017484
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: 9099205430
Facility Contact: PETE LANG
Agency Name: PC LANG LLC
Agency Address: 1400 E Arrow Hwy
Agency City,St,Zip: Upland 917864914
Agency Contact: PETE LANG
Agency Telephone: 9099205430
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

A3 **ARROW LUMBER INC** **FINDS** **1024402374**
Target **1400 E ARROW HIGHWAY** **N/A**
Property **UPLAND, CA 91786**

Site 3 of 8 in cluster A

Actual: **1225 ft.**

FINDS:
Registry ID: 110070317046

Click Here:

Environmental Interest/Information System:
OSHA ESTABLISHMENT

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **ARROW LUMBER** **HWTS** **S124837224**
Target **1400 E ARROW HWY** **N/A**
Property **UPLAND, CA 91786**

Site 4 of 8 in cluster A

Actual: **1225 ft.**

HWTS:

Name:	ARROW LUMBER
Address:	1400 E ARROW HWY
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAL000256486
Inactive Date:	06/30/2008
Create Date:	07/25/2002
Last Act Date:	04/23/2009
Mailing Name:	Not reported
Mailing Address:	1400 E ARROW HWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917860000
Owner Name:	JORGE AGIRRE
Owner Address:	1400 E ARROW HWY
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917860000
Contact Name:	JORGE AGUIRRE
Contact Address:	1400 E ARROW HWY
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000

NAICS:

EPA ID:	CAL000256486
Create Date:	2002-07-25 09:22:09.967
NAICS Code:	44419
NAICS Description:	Other Building Material Dealers
Issued EPA ID Date:	2002-07-25 09:22:09.92000
Inactive Date:	2008-06-30 00:00:00
Facility Name:	ARROW LUMBER
Facility Address:	1400 E ARROW HWY
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917860000

A5 **BUTCHERS BLOCK & BUILDING MATERIAL** **HWTS** **S124830848**
Target **1400 E ARROW HWY** **N/A**
Property **UPLAND, CA 91786**

Site 5 of 8 in cluster A

Actual: **1225 ft.**

HWTS:

Name:	BUTCHERS BLOCK & BUILDING MATERIAL
Address:	1400 E ARROW HWY
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAL000234394
Inactive Date:	06/30/2003
Create Date:	01/11/2002
Last Act Date:	10/23/2003
Mailing Name:	Not reported
Mailing Address:	41860 BIG BEAR BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BIG BEAR LAKE, CA 923150000
Owner Name:	BOB BUTCHER
Owner Address:	PO BOX 1569
Owner Address 2:	Not reported
Owner City,State,Zip:	BIG BEAR LAKE, CA 923150000
Contact Name:	GLENN BUTCHER
Contact Address:	41860 BIG BEAR BLVD
Contact Address 2:	Not reported
City,State,Zip:	BIG BEAR LAKE, CA 923150000

NAICS:

EPA ID:	CAL000234394
Create Date:	2002-03-14 16:36:29.000
NAICS Code:	44419
NAICS Description:	Other Building Material Dealers
Issued EPA ID Date:	2002-01-11 00:00:00
Inactive Date:	2003-06-30 00:00:00
Facility Name:	BUTCHERS BLOCK & BUILDING MATERIAL
Facility Address:	1400 E ARROW HWY
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917860000

A6 **1X BOYD LUMBER COMPANY** **HAZNET** **S123729541**
Target **1400 EAST ARROW HIGHWAY** **HWTS** **N/A**
Property **UPLAND, CA 91786**

Site 6 of 8 in cluster A

Actual: **1225 ft.**

HAZNET:

Name:	1X BOYD LUMBER COMPANY
Address:	1400 EAST ARROW HIGHWAY
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
Contact:	ROBERT HELM-CONSULTING ENGINEE
Telephone:	7149821577
Mailing Name:	Not reported
Mailing Address:	1400 EAST ARROW HIGHWAY

1X BOYD LUMBER COMPANY (Continued) **S123729541**

Year: 1990
Gepaid: CAC000507848
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 0.638

HWTS:
Name: 1X BOYD LUMBER COMPANY
Address: 1400 EAST ARROW HIGHWAY
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
EPA ID: CAC000507848
Inactive Date: 10/25/2000
Create Date: 08/13/1990
Last Act Date: 10/25/2000
Mailing Name: Not reported
Mailing Address: 1400 EAST ARROW HIGHWAY
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917860000
Owner Name: BOYD LUMBER COMPANY
Owner Address: --
Owner Address 2: Not reported
Owner City,State,Zip: --, 99 --
Contact Name: ROBERT HELM-CONSULTING ENGINEE
Contact Address: --
Contact Address 2: Not reported
City,State,Zip: --, 99 --

A7 **BOYD LUMBER CO** **SWEEPS UST** **S101619054**
Target **1400 E ARROW HWY** **HIST UST** **N/A**
Property **UPLAND, CA 91786** **CA FID UST**

Site 7 of 8 in cluster A

Actual:
1225 ft.

SWEEPS UST:
Name: BOYD LUMBER CO
Address: 1400 E ARROW HWY
City: UPLAND
Status: Not reported
Comp Number: 9105
Number: Not reported
Board Of Equalization: 44-020160
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-009105-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

BOYD LUMBER CO (Continued) **S101619054**

Name: BOYD LUMBER CO
Address: 1400 E ARROW HWY
City: UPLAND
Status: Not reported
Comp Number: 9105
Number: Not reported
Board Of Equalization: 44-020160
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-009105-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
Name: BOYD LBR CO
Address: 1400 E ARROW HIGHWAY
City,State,Zip: UPLAND, CA 91786
File Number: 00029A5A
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029A5A.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 36001690
Regulated By: UTNKI
Regulated ID: 880918003
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported

BOYD LUMBER CO (Continued) **S101619054**

Mailing Address:	1400 E ARROW HWY
Mailing Address 2:	Not reported
Mailing City,St,Zip:	UPLAND 91786
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

A8 **R.F. WHITE CO.** **LUST** **S104160275**
1401 ARROW HWY **N/A**
< 1/8 **UPLAND, CA 91786**
1 ft.

Site 8 of 8 in cluster A

Relative: LUST REG 8:
Higher

Actual: Name:	R.F. WHITE CO.
1231 ft. Address:	1401 ARROW HWY
City:	UPLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Remediation Plan
Case Number:	083602328T
Local Case Num:	93047
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Test
How Stopped:	Not reported
Leak Cause:	Overfill
Leak Source:	Other Source
Global ID:	T0607100294
How Stopped Date:	Not reported
Enter Date:	10/19/1993
Date Confirmation of Leak Began:	8/31/1993
Date Preliminary Assessment Began:	Not reported
Discover Date:	8/10/1993
Enforcement Date:	Not reported
Close Date:	5/8/2000
Date Prelim Assessment Workplan Submitted:	9/9/1993
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	1/1/1965
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	10/19/1993
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST

R.F. WHITE CO. (Continued) **S104160275**

Latitude:	34.099598
Longitude:	-117.6321392
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

---

9 **CHEROKEE WOOD PRODUCTS** **RCRA NonGen / NLR** **1024806751**
WSW **1390 E ARROW HWY** **CAL000270834**
< 1/8 **UPLAND, CA 91786**
0.026 mi.
136 ft.

Relative: **Lower**

Actual: **1224 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2003-05-27 00:00:00.0
Handler Name:	CHEROKEE WOOD PRODUCTS
Handler Address:	1390 E ARROW HWY
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000270834
Contact Name:	TOM URQUIZA
Contact Address:	1390 E ARROW HWY
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-920-5430
Contact Fax:	909-920-5059
Contact Email:	TMUELLER@CHEROKEEWOOD.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1390 E ARROW HWY
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	PETER C LANG
Owner Type:	Other
Operator Name:	TOM URQUIZA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No

CHEROKEE WOOD PRODUCTS (Continued) **1024806751**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
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
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:	2018-09-05 20:25:00.0
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:	TOM URQUIZA
Legal Status:	Other

CHEROKEE WOOD PRODUCTS (Continued) **1024806751**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1390 E ARROW HWY
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-920-5430
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	PETER C LANG
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1390 E ARROW HWY
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-920-5430
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2003-05-27 00:00:00.0
Handler Name:	CHEROKEE WOOD PRODUCTS
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:	42131
NAICS Description:	LUMBER, PLYWOOD, MILLWORK, AND WOOD PANEL WHOLESALERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B10 **RF WHITE CO.** **RCRA NonGen / NLR** **1024799364**
NE **1401 E ARROW HWY** **CAL000209412**
< 1/8 **UPLAND, CA 91786**
0.026 mi.
137 ft. **Site 1 of 5 in cluster B**

Relative: **Higher**

Actual: **1232 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1999-12-29 00:00:00.0
Handler Name:	RF WHITE CO.	
Handler Address:		1401 E ARROW HWY
Handler City,State,Zip:		UPLAND, CA 91786-0000
EPA ID:		CAL000209412
Contact Name:		DENISE MANN
Contact Address:		1401 E. ARROW HWY
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-982-8954
Contact Fax:		909-949-8673
Contact Email:		RFWPETRO@VERIZON.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1401 E ARROW HWY
Mailing City,State,Zip:		UPLAND, CA 91786-0000
Owner Name:		DARRY WHITE
Owner Type:		Other
Operator Name:		DENISE MANN
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
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
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

RF WHITE CO. (Continued) **1024799364**

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:	2018-09-05 15:44:56.0
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:	Owner
Owner/Operator Name:	DARRY WHITE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1401 E ARROW HWY
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-982-8954
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DENISE MANN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1401 E. ARROW HWY
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-982-8954
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

RF WHITE CO. (Continued) **1024799364**

Historic Generators:
- Receive Date: 1999-12-29 00:00:00.0
- Handler Name: RF WHITE CO.
- 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: 44711
- NAICS Description: GASOLINE STATIONS WITH CONVENIENCE STORES

- NAICS Code: 44719
- NAICS Description: OTHER GASOLINE STATIONS

- NAICS Code: 4841
- NAICS Description: GENERAL FREIGHT TRUCKING

- NAICS Code: 48421
- NAICS Description: USED HOUSEHOLD AND OFFICE GOODS MOVING

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

B11 **RF WHITE CO INC** **LUST** **U001570705**
NE **1401 E ARROW HWY** **AST** **N/A**
< 1/8 **UPLAND, CA 91786** **HIST UST**
0.026 mi. **NPDES**
137 ft. **Site 2 of 5 in cluster B** **San Bern. Co. Permit**
CIWQS
Relative: Higher **CERS**

Actual: 1232 ft.

LUST:
- Name: R.F. WHITE CO.
- Address: 1401 E ARROW HWY
- City,State,Zip: UPLAND, CA 91786
- Lead Agency: SAN BERNARDINO COUNTY
- Case Type: LUST Cleanup Site
- Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100294
- Global Id: T0607100294
- Latitude: 34.099759
- Longitude: -117.63079
- Status: Completed - Case Closed
- Status Date: 05/08/2000
- Case Worker: Not reported
- RB Case Number: 083602328T

RF WHITE CO INC (Continued) **U001570705**

Local Agency: Not reported
File Location: Local Agency
Local Case Number: 93047
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100294
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0607100294
Action Type: ENFORCEMENT
Date: 05/08/2000
Action: Closure/No Further Action Letter

Global Id: T0607100294
Action Type: Other
Date: 08/10/1993
Action: Leak Discovery

Global Id: T0607100294
Action Type: Other
Date: 09/09/1993
Action: Leak Reported

LUST:
Global Id: T0607100294
Status: Open - Case Begin Date
Status Date: 08/10/1993

Global Id: T0607100294
Status: Open - Site Assessment
Status Date: 08/31/1993

Global Id: T0607100294
Status: Open - Site Assessment
Status Date: 09/09/1993

Global Id: T0607100294
Status: Completed - Case Closed
Status Date: 05/08/2000

AST:
Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City/Zip: UPLAND,91786
Certified Unified Program Agencies: Not reported

RF WHITE CO INC (Continued) **U001570705**

Owner:	R F WHITE COMPANY, INC.
Total Gallons:	Not reported
CERSID:	10043482
Facility ID:	FA0005524
Business Name:	R.F. White Co., Inc.
Phone:	(909) 982-8954
Fax:	(909) 949-8673
Mailing Address:	1401 EAST ARROW HWY
Mailing Address City:	UPLAND
Mailing Address State:	CA
Mailing Address Zip Code:	91786
Operator Name:	R.F. White Co., Inc.
Operator Phone:	909 982-8954
Owner Phone:	(909) 982-8954
Owner Mail Address:	1401 EAST ARROW HWY
Owner State:	CA
Owner Zip Code:	91786
Owner Country:	United States
Property Owner Name:	White Family Trust
Property Owner Phone:	909 982-8954
Property Owner Mailing Address:	1401 E. Arrow Highway
Property Owner City:	Upland
Property Owner Stat :	CA
Property Owner Zip Code:	91786
Property Owner Country:	United States
EPAID:	CAL000209412

HIST UST:

Name:	RF WHITE CO INC
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
File Number:	0002A475
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A475.pdf
Region:	STATE
Facility ID:	00000009384
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	7149828954
Owner Name:	R.F. WHITE CO., INC
Owner Address:	1401 E. ARROW HWY
Owner City,St,Zip:	UPLAND, CA 91786
Total Tanks:	0006
Tank Num:	001
Container Num:	1
Year Installed:	74
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1974
Tank Capacity:	00010000

RF WHITE CO INC (Continued) **U001570705**

Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	3
Year Installed:	1974
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	1974
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	5
Year Installed:	1978
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	6
Year Installed:	1980
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

NPDES:

Name:	R F WHITE
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I005818
Regulatory Measure Type:	Industrial
Program Type:	Not reported

RF WHITE CO INC (Continued) **U001570705**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/14/1992
Operator Name:	RF White
Operator Address:	1401 E Arrow Hwy
Operator City:	Upland
Operator State:	California
Operator Zip:	91786

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213218
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I005818
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/14/1992
Status:	Active
Status Date:	04/14/1992
Place Size:	88000
Place Size Unit:	SqFt
Contact:	Darry R White
Contact Title:	President
Contact Phone:	909-982-8954
Contact Phone Ext:	20
Contact Email:	dwhite@wptanklines.com
Operator Name:	RF White
Operator Address:	1401 E Arrow Hwy
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Darry R White
Operator Contact Title:	Not reported
Operator Contact Phone:	909-982-8954
Operator Contact Phone Ext:	20
Operator Contact Email:	Not reported

RF WHITE CO INC (Continued) **U001570705**

Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-982-8954
Emergency Phone Ext:	20
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Chino Bsn
Certifier:	Darry White
Certifier Title:	President
Certification Date:	19-JUN-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213218
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I005818
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/14/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	RF White
Discharge Address:	1401 E Arrow Hwy
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Received Date:	Not reported
Processed Date:	Not reported

RF WHITE CO INC (Continued) **U001570705**

Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name: R F WHITE

RF WHITE CO INC (Continued) **U001570705**

Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	213218
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I005818
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/14/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1401 E Arrow Hwy
Discharge Name:	RF White
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213218
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I005818
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/14/1992
Status:	Active
Status Date:	04/14/1992
Place Size:	88000
Place Size Unit:	SqFt
Contact:	Darry R White
Contact Title:	President
Contact Phone:	909-982-8954

RF WHITE CO INC (Continued) **U001570705**

Contact Phone Ext:	20
Contact Email:	dwhite@wptanklines.com
Operator Name:	RF White
Operator Address:	1401 E Arrow Hwy
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Darry R White
Operator Contact Title:	Not reported
Operator Contact Phone:	909-982-8954
Operator Contact Phone Ext:	20
Operator Contact Email:	Not reported
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-982-8954
Emergency Phone Ext:	20
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Chino Bsn
Certifier:	Darry White
Certifier Title:	President
Certification Date:	19-JUN-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213218
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I005818

RF WHITE CO INC (Continued) **U001570705**

Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/14/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	RF White
Discharge Address:	1401 E Arrow Hwy
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported

RF WHITE CO INC (Continued) **U001570705**

Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005524
Owner:	R F WHITE COMPANY, INC.
Permit Number:	PT0002522
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005524
Owner:	R F WHITE COMPANY, INC.
Permit Number:	PT0011743
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005524
Owner:	R F WHITE COMPANY, INC.
Permit Number:	PT0011744
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005524
Owner:	R F WHITE COMPANY, INC.
Permit Number:	PT0011745
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name: R F WHITE CO INC #2971

RF WHITE CO INC (Continued) **U001570705**

Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005524
Owner: R F WHITE COMPANY, INC.
Permit Number: PT0011746
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 10/31/2021

Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005524
Owner: R F WHITE COMPANY, INC.
Permit Number: PT0011747
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 10/31/2021

Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005524
Owner: R F WHITE COMPANY, INC.
Permit Number: PT0002523
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 10/31/2021

Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005524
Owner: R F WHITE COMPANY, INC.
Permit Number: PT0023103
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 10/31/2021

Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005524
Owner: R F WHITE COMPANY, INC.
Permit Number: PT0023102
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

Name: INLAND COMM FUELING INC
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786

RF WHITE CO INC (Continued) **U001570705**

Region: SAN BERNARDINO
Facility ID: FA0003951
Owner: INLAND COMMERCIAL FUELING, INC
Permit Number: PT0008888
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2010

Name: INLAND COMM FUELING INC
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0003951
Owner: INLAND COMMERCIAL FUELING, INC
Permit Number: PT0008887
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2010

CIWQS:
Name: R F WHITE
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Agency: RF White
Agency Address: 1401 E Arrow Hwy, Upland, CA 91786
Place/Project Type: Industrial - Local Trucking Without Storage
SIC/NAICS: 4212
Region: 8
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 36I005818
NPDES Number: CAS000001
Adoption Date: 01/01/1900
Effective Date: 04/14/1992
Termination Date: 01/01/1900
Expiration/Review Date: 01/01/1900
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.09945
Longitude: -117.63105

CERS:
Name: R F WHITE
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Site ID: 540273
CERS ID: 251433
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 540273

RF WHITE CO INC (Continued) **U001570705**

Site Name:	R F White
Violation Date:	07-02-1999
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	Non-submittal of Annual Report. Due 7//1/1999
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	RF White
Entity Title:	Operator
Affiliation Address:	1401 E Arrow Hwy
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

B12 **R F WHITE CO INC #2971** **UST** **U003941288**
NE **1401 E ARROW HWY** **SWEEPS UST** **N/A**
< 1/8 **UPLAND, CA 91786**
0.026 mi.
137 ft. **Site 3 of 5 in cluster B**

Relative:
Higher

Actual:
1232 ft.

UST:

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Facility ID:	FA0005524
Permitting Agency:	San Bernardino County Fire Department
Latitude:	34.099842
Longitude:	-117.630463

SWEEPS UST:

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City:	UPLAND
Status:	Active
Comp Number:	9384
Number:	9
Board Of Equalization:	44-020190
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-009384-000001
Tank Status:	A
Capacity:	10000
Active Date:	07-07-88
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	6

R F WHITE CO INC #2971 (Continued) **U003941288**

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City:	UPLAND
Status:	Active
Comp Number:	9384
Number:	9
Board Of Equalization:	44-020190
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-009384-000002
Tank Status:	A
Capacity:	10000
Active Date:	07-07-88
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City:	UPLAND
Status:	Active
Comp Number:	9384
Number:	9
Board Of Equalization:	44-020190
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	3
SWRCB Tank Id:	36-000-009384-000003
Tank Status:	A
Capacity:	10000
Active Date:	07-07-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City:	UPLAND
Status:	Active
Comp Number:	9384
Number:	9
Board Of Equalization:	44-020190
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	4
SWRCB Tank Id:	36-000-009384-000004
Tank Status:	A
Capacity:	10000
Active Date:	07-07-88
Tank Use:	M.V. FUEL
STG:	P

R F WHITE CO INC #2971 (Continued) **U003941288**

Content: REG UNLEADED
Number Of Tanks: Not reported

Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City: UPLAND
Status: Active
Comp Number: 9384
Number: 9
Board Of Equalization: 44-020190
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 5
SWRCB Tank Id: 36-000-009384-000005
Tank Status: A
Capacity: 5000
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City: UPLAND
Status: Active
Comp Number: 9384
Number: 9
Board Of Equalization: 44-020190
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 6
SWRCB Tank Id: 36-000-009384-000006
Tank Status: A
Capacity: 10000
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

B13 **R F WHITE CO INC #2971** **CERS HAZ WASTE** **S101591607**
NE **1401 E ARROW HWY** **CA FID UST** **N/A**
< 1/8 **UPLAND, CA 91786** **CERS TANKS**
0.026 mi. **EMI**
137 ft. **Site 4 of 5 in cluster B** **CERS**

Relative: Higher
Actual: 1232 ft.

CERS HAZ WASTE:
Name: R F WHITE CO INC #2971
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Site ID: 59777
CERS ID: 10043482
CERS Description: Hazardous Waste Generator

R F WHITE CO INC #2971 (Continued) **S101591607**

CA FID UST:
- Facility ID: 36008488
- Regulated By: UTNKA
- Regulated ID: 00009384
- Cortese Code: Not reported
- SIC Code: Not reported
- Facility Phone: Not reported
- Mail To: Not reported
- Mailing Address: 1401 E ARROW HWY
- Mailing Address 2: Not reported
- Mailing City,St,Zip: UPLAND 91786
- Contact: Not reported
- Contact Phone: Not reported
- DUNs Number: Not reported
- NPDES Number: Not reported
- EPA ID: Not reported
- Comments: Not reported
- Status: Active

CERS TANKS:
- Name: R F WHITE CO INC #2971
- Address: 1401 E ARROW HWY
- City,State,Zip: UPLAND, CA 91786
- Site ID: 59777
- CERS ID: 10043482
- CERS Description: Underground Storage Tank

- Name: R F WHITE CO INC #2971
- Address: 1401 E ARROW HWY
- City,State,Zip: UPLAND, CA 91786
- Site ID: 59777
- CERS ID: 10043482
- CERS Description: Aboveground Petroleum Storage

EMI:
- Name: R. F. WHITE CO INC
- Address: 1401 E ARROW HWY
- City,State,Zip: UPLAND, CA 91786
- Year: 1990
- County Code: 36
- Air Basin: SC
- Facility ID: 2067
- Air District Name: SC
- SIC Code: 5171
- Air District Name: SOUTH COAST AQMD
- Community Health Air Pollution Info System: Not reported
- Consolidated Emission Reporting Rule: Not reported
- Total Organic Hydrocarbon Gases Tons/Yr: 3
- Reactive Organic Gases Tons/Yr: 3
- Carbon Monoxide Emissions Tons/Yr: 0
- NOX - Oxides of Nitrogen Tons/Yr: 0
- SOX - Oxides of Sulphur Tons/Yr: 0
- Particulate Matter Tons/Yr: 0
- Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

- Name: R. F. WHITE CO INC

R F WHITE CO INC #2971 (Continued) **S101591607**

Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	2067
Air District Name:	SC
SIC Code:	5171
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	R. F. WHITE CO INC
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Year:	1996
County Code:	36
Air Basin:	SC
Facility ID:	2067
Air District Name:	SC
SIC Code:	5171
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

CERS:

Name:	R F WHITE CO INC #2971
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Site ID:	59777
CERS ID:	10043482
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	10-03-2019
Citation:	HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description:	Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.
Violation Notes:	Returned to compliance on 11/06/2019. OBSERVATION: The SPCC plan

R F WHITE CO INC #2971 (Continued) **S101591607**

prepared for this facility has not been reviewed and evaluated for over 5 years and does not reflect the facilityG s current business operations. The SPCC plan was last certified on 9/14/10. CORRECTIVE ACTION: Submit a signed statement indicating that the 5-year review has been performed, documented and SPCC plan amended if necessary.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 06-06-2017
Citation: HSC 6.67 25270.6(a)(1), 25270.6(a)(2) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(a)(1), 25270.6(a)(2)
Violation Description: Failure to submit a tank facility statement on or before January 1 annually unless a current Business Plan has been submitted.
Violation Notes: Returned to compliance on 04/27/2018. A102 G Facility has not submitted a tank facility statement or a complete Business Plan to CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 06-06-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 06/06/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) (1) 55 gal drum of waste antifreeze was missing the accumulation start date. At time of inspection, the labeling of the accumulation start date was corrected on site.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 04-22-2020
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 05/22/2020. OBSERVATION: CFO LETTER AND CERTIFICATE OF FINANCIAL RESPONSIBILITY ARE EXPIRED. CORRECTIVE ACTION: SUBMIT CURRENT CFO LETTER AND CERTIFICATE OF FINANCIAL RESPONSIBILITY VIA CERS IN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 04-24-2017
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16,

R F WHITE CO INC #2971 (Continued) **S101591607**

	Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 04/24/2017. OBSERVED FLOAT AND CHAIN ASSEMBLY NOT FUNCTIONING PROPERLY WHEN TESTED. COMPLIANCE REQUIREMENT: FLOAT AND CHAIN WAS READJUSTED AND RETESTED. VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	10-03-2019
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to test or inspect each aboveground container for integrity based on industry standards as discussed in the SPCC Plan: 1. On a regular schedule. 2. After making material repairs. 3. Use non-destructive testing. 4. Inspect each containerG s supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas."
Violation Notes:	Returned to compliance on 11/06/2019. OBSERVATION: The SPCC plan stated that documented monthly and annual inspections of the petroleum tanks would be conducted in accordance to industry standard STI SP001 and available for review. At time of inspection, the monthly inspections were not made available for review. The last annual inspection made available for review was documented on 6/27/16. CORRECTIVE ACTION: Submit a signed statement indicating that tests and inspections of containers are being properly conducted on a regular schedule or after repair.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	04-24-2017
Citation:	23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 04/24/2017. OBSERVED LAST ANNUAL MONITORING CERTIFICATION COMPLETED ON 4/4/16 AND MONITORING CERTIFICATION IS PAST DUE. COMPLIANCE REQUIREMENT: ANNUAL MONITORING CERTIFICATION COMPLETED TODAY. VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	04-07-2014
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to prepare, maintain, and submit accurate CUPA UST Operating

R F WHITE CO INC #2971 (Continued) **S101591607**

	Permit Application for Facility information and/or Tank information.
Violation Notes:	Returned to compliance on 04/07/2015. THE TANK INFORMATION AND THE INDIVIDUAL MONITORING PLANS REQUIRE SEVERAL UPDATES TO MAINTAIN ACCURACY. ALL THE NECESSARY CORRECTIONS WERE MADE ON THE PRINTED HARD-COPY LEFT WITH THE FACILITY. USE THE FORMS TO MAKE THE CHANGES INTO CERS AND NOTIFY THIS DEPARTMENT UPON COMPLETION. CHANGES SHOULD BE UPDATED WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	04-06-2015
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 04/09/2015. Failure to have a written monitoring program with monitoring procedures and response plan. (CCR 2632(d)) OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)-THE UST-MONITORING SITE PLAN HAD NOT BEEN SUBMITTED. COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	04-24-2017
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes:	Returned to compliance on 03/14/2018. FACILITY PROVIDED TRAINING RECORDS FOR REVIEW, CLOSE OUT VIOLATION PER P. SAAVEDRA-PREYES OBSERVED EMPLOYEE TRAINING LOGS NOT AVAILABLE FOR REVIEW. COMPLIANCE REQUIREMENT: MAINTAIN EMPLOYEE TRAINING LOGS AVAILABLE FOR REVIEW. SUBMIT COPY OF COMPLETED EMPLOYEE TRAINING LOG AND SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971

R F WHITE CO INC #2971 (Continued) **S101591607**

Violation Date:	04-23-2018
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 05/06/2018. The Board of Equilization number for this facility is no longer valid. Contact the appropriate state department to update the BOE number for this facility. Submit a signed Certificate of Compliance within 30 days to verify compliance.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	10-03-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/25/2019. OBSERVATION: Hazardous materials above reportable threshold amounts (55 gal, 500 lbs, and 200 cubic feet) were observed on site, but not included in the hazardous materials inventory submitted on 4/18/19. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into the California Environmental Reporting System (CERS).
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	06-06-2017
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 06/06/2017. (1) 55 gal drum of waste antifreeze was missing the accumulation start date. At time of inspection, the labeling of the accumulation start date was corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	59777
Site Name:	R F WHITE CO INC #2971
Violation Date:	06-06-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 04/27/2018. Hazardous materials above reportable threshold amounts (55 gal, 500 lbs, and 200 cubic feet) were observed on site, but not included in the hazardous materials

R F WHITE CO INC #2971 (Continued) **S101591607**

inventory submitted on 6/5/17.

Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 06-06-2017
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description: Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.
Violation Notes: Returned to compliance on 11/06/2019. The SPCC plan prepared for this facility has not been reviewed and evaluated for over 5 years and does not reflect the facilityG s current business operations. The SPCC plan was last certified on 9/14/10.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 04-22-2020
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 05/22/2020. OBSERVATION: INFORMATION ON CERS IS INCOMPLETE OR NOT ACCURATE CORRECTIVE ACTION: 1) OVERFILL PROTECTION INDICATE 'NO' FOR BALL FLOATS FOR ALL TANKS 2) FOR MONITORING EQUIPMENT FOR TANKS THAT INDICATE Mechanical Line Leak Detector MODEL AS "9BL2000" CHANGE TO "LD2000"
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 04-19-2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform

R F WHITE CO INC #2971 (Continued) **S101591607**

an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 07/15/2019. OBSERVATION: At the time of inspection, the flapper drop tube valve in T-4 (red dye diesel) was not functional. CORRECTIVE ACTION: Technician replaced the drop tube during the inspection. Submit G as builtG plans for the flapper drop tube valve replacement to OFM within 7 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 09-17-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 09/17/2013. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Violation Date: 04-24-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 02/15/2018. OBSERVED UST SITE MAP MISSING UST PIPING. COMPLIANCE REQUIREMENT: ADD PIPING TO UST SITE MAP AND RESUBMIT TO CERS. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: R F WHITE-UST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2015
Violations Found: Yes
Eval Type: Routine done by local agency

R F WHITE CO INC #2971 (Continued) **S101591607**

Eval Notes:	R F WHITE- UST MONITORING CERTIFICATION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-07-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	UST HANDLER INSPECTION AND CERS CONSULT
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-07-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UST FIELD INSPECTION-ANNUAL MONITORING SYSTEM CERTIFICATION (5 TANKS) W/JOHN KNEISEL (SAAVEDRA IN TRAINIG)
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-19-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Witnessed the OPE inspection.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct an Annual Underground Storage Tank (UST) inspection. Inspection was conducted during the annual monitoring certification testing.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-22-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	DTF annual inspection and check emails remote
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-23-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency

R F WHITE CO INC #2971 (Continued) **S101591607**

Eval Notes:	Routine inspection with monitoring certification
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL UST INSPECTION AND CERS REVIEW
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE APSA INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	RF White Mont Cert - no violations observed today
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-06-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	R F WHITE- UST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE GENERATOR INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP

R F WHITE CO INC #2971 (Continued) **S101591607**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-03-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-03-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-03-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown

R F WHITE CO INC #2971 (Continued) **S101591607**

Eval Date: 10-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SECONDARY CONTAINMENT TEST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 59777
Site Name: R F WHITE CO INC #2971
Site Address: 1401 E ARROW HWY
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-06-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Site Address: 1401 E ARROW HWY
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-07-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Site Address: 1401 E ARROW HWY
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-24-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 59777
Site Name: R F WHITE CO INC #2971
Site Address: 1401 E ARROW HWY
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 09-17-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported

R F WHITE CO INC #2971 (Continued) **S101591607**

Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 59777
Facility Name: R F WHITE CO INC #2971
Env Int Type Code: HWG
Program ID: 10043482
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.099834
Longitude: -117.630447

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: DARRY WHITE
Entity Title: Not reported
Affiliation Address: 1401 E ARROW HWY
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Operator
Entity Name: R.F. White Co., Inc.
Entity Title: Not reported
Affiliation Address: 1401 E. Arrow Hwy
Affiliation City: Upland
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786
Affiliation Phone: (909) 982-8954

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Property Owner
Entity Name: White Family Trust
Entity Title: Not reported
Affiliation Address: 1401 E. Arrow Highway
Affiliation City: Upland
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786
Affiliation Phone: (909) 982-8954

Affiliation Type Desc: UST Tank Owner

R F WHITE CO INC #2971 (Continued) **S101591607**

Entity Name:	R.F. White Co., Inc.
Entity Title:	Not reported
Affiliation Address:	1401 E. Arrow Hwy
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 982-8954
Affiliation Type Desc:	Document Preparer
Entity Name:	Sandie deWinstanley
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:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1401 EAST ARROW HWY
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	DARRY WHITE
Entity Title:	OWNER
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:	Legal Owner
Entity Name:	R F WHITE COMPANY, INC.
Entity Title:	Not reported
Affiliation Address:	1401 EAST ARROW HWY
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 982-8954
Affiliation Type Desc:	Operator
Entity Name:	R.F. White Co., 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

R F WHITE CO INC #2971 (Continued) **S101591607**

Affiliation Phone:	(909) 982-8954
Affiliation Type Desc:	Parent Corporation
Entity Name:	R.F. White Co., 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:	UST Permit Applicant
Entity Name:	Katrina Johnosn
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 981-8696
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	White Family Trust
Entity Title:	Not reported
Affiliation Address:	1401 E. Arrow Highway
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 982-8954

B14 **R.F. WHITE CO.** **Cortese** **S106176094**
NE **1401 E ARROW HWY** **WDS** **N/A**
< 1/8 **UPLAND, CA 91786** **CERS**
0.026 mi.
137 ft. **Site 5 of 5 in cluster B**

Relative:
Higher

Actual:
1232 ft.

CORTESE:

Name:	R.F. WHITE CO.
Address:	1401 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100294
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported

R.F. WHITE CO. (Continued) **S106176094**

Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

WDS:

Name:	R.F. WHITE CO.
Address:	1401 E ARROW HWY
City:	UPLAND
Facility ID:	Santa Ana River 36I005818
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	R. F. WHITE CO.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

R.F. WHITE CO. (Continued) **S106176094**

CERS:
Name: R.F. WHITE CO.
Address: 1401 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Site ID: 250031
CERS ID: T0607100294
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

15
ENE
< 1/8
0.087 mi.
458 ft.

Relative:
Higher

Actual:
1229 ft.

A AND L TRUCKING
1471 ARROW HWY
UPLAND, CA 91786

LUST **S101590971**
SWEEPS UST **N/A**
CA FID UST
Cortese
HIST CORTESE
CERS

LUST:
Name: A AND L TRUCKING
Address: 1471 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100261
Global Id: T0607100261
Latitude: 34.099821
Longitude: -117.629264
Status: Completed - Case Closed
Status Date: 07/11/1995
Case Worker: JC
RB Case Number: 083602103T
Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency
Local Case Number: 90039
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607100261
Contact Type: Local Agency Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

A AND L TRUCKING (Continued) **S101590971**

Global Id: T0607100261
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0607100261
Action Type: ENFORCEMENT
Date: 07/11/1995
Action: Closure/No Further Action Letter

Global Id: T0607100261
Action Type: Other
Date: 11/21/1988
Action: Leak Discovery

Global Id: T0607100261
Action Type: Other
Date: 11/21/1988
Action: Leak Stopped

Global Id: T0607100261
Action Type: Other
Date: 08/03/1992
Action: Leak Reported

Global Id: T0607100261
Action Type: REMEDIATION
Date: 11/21/1988
Action: Excavation

LUST:
Global Id: T0607100261
Status: Open - Case Begin Date
Status Date: 11/21/1988

Global Id: T0607100261
Status: Open - Site Assessment
Status Date: 11/21/1988

Global Id: T0607100261
Status: Completed - Case Closed
Status Date: 07/11/1995

LUST REG 8:
Name: A AND L TRUCKING
Address: 1471 ARROW HWY
City: UPLAND
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region

A AND L TRUCKING (Continued) **S101590971**

Facility Status:	Case Closed
Case Number:	083602103T
Local Case Num:	90039
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	GROVE
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100261
How Stopped Date:	11/21/1988
Enter Date:	9/1/1992
Date Confirmation of Leak Began:	11/21/1988
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/21/1988
Enforcement Date:	Not reported
Close Date:	7/11/1995
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/1/1992
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.099563
Longitude:	-117.6296601
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

SWEEPS UST:

Name:	A AND L TRUCKING
Address:	1471 E ARROW HWY

A AND L TRUCKING (Continued) **S101590971**

City:	UPLAND
Status:	Active
Comp Number:	10735
Number:	1
Board Of Equalization:	44-020293
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	09-16-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-010735-000001
Tank Status:	A
Capacity:	1
Active Date:	09-16-88
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	1

CA FID UST:

Facility ID:	36000411
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	1471 E ARROW HWY
Mailing Address 2:	Not reported
Mailing City,St,Zip:	UPLAND 91786
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CORTESE:

Name:	A AND L TRUCKING
Address:	1471 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100261
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported

A AND L TRUCKING (Continued) **S101590971**

Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: A AND L TRUCKING
edr_fadd1: 1471 ARROW
City,State,Zip: UPLAND, CA 91786
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083602103T

CERS:
Name: A AND L TRUCKING
Address: 1471 E ARROW HWY
City,State,Zip: UPLAND, CA 91786
Site ID: 242675
CERS ID: T0607100261
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C16 **FUTURE MARINE** **HIST UST** **S118410418**
South **1364 EAST NINTH STREET** **N/A**
< 1/8 **UPLAND, CA 91786**
0.112 mi.
594 ft. **Site 1 of 6 in cluster C**

Relative: HIST UST:
Lower Name: FUTURE MARINE
Address: 1364 EAST NINTH STREET
Actual: City,State,Zip: UPLAND, CA 91786
1206 ft. File Number: 0002A50A

FUTURE MARINE (Continued) **S118410418**

URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A50A.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

C17 **FUTURE MARINE** **HIST UST** **U001570675**
South **1364 E 9TH ST** **N/A**
< 1/8 **UPLAND, CA 91786**
0.112 mi.
594 ft. **Site 2 of 6 in cluster C**

Relative: HIST UST:
Lower

Name:	FUTURE MARINE
Address:	1364 E 9TH ST
City,State,Zip:	UPLAND, CA 91786
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000006072
Facility Type:	Other
Other Type:	BOAT FUEL
Contact Name:	STEVEN ZIOLKOWSKI
Telephone:	7149818082
Owner Name:	ROBERT L. BAUM & MARIE A. BAUM
Owner Address:	P.O. BOX 697 2241 1ST
Owner City,St,Zip:	CA 91750
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1979
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	3/16"
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	1979

Actual:
1206 ft.

FUTURE MARINE (Continued) **U001570675**

Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	3/16"
Leak Detection:	None

C18 **RODES WAY BOATS INC** **RCRA NonGen / NLR** **1024822664**
SSW **1346 E 9TH ST** **CAL000341260**
< 1/8 **UPLAND, CA 91786**
0.116 mi.
615 ft. **Site 3 of 6 in cluster C**

Relative: **Lower**
Actual: **1206 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2009-03-13 00:00:00.0
Handler Name:	RODES WAY BOATS INC	
Handler Address:		1346 E 9TH ST
Handler City,State,Zip:		UPLAND, CA 91786-5505
EPA ID:		CAL000341260
Contact Name:		JOEL RODE
Contact Address:		1346 E 9TH ST
Contact City,State,Zip:		UPLAND, CA 91786-5505
Contact Telephone:		909-931-7440
Contact Fax:		909-931-7004
Contact Email:		INFO@RODESWAYBOATS.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1346 E 9TH ST
Mailing City,State,Zip:		UPLAND, CA 91786-5505
Owner Name:		JOEL RODE
Owner Type:		Other
Operator Name:		JOEL RODE
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
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

RODES WAY BOATS INC (Continued) **1024822664**

Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
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:	2018-12-20 13:52:50.0
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:	Owner
Owner/Operator Name:	JOEL RODE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1336 E 9TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786-5505
Owner/Operator Telephone:	909-240-0443
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOEL RODE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

RODES WAY BOATS INC (Continued) **1024822664**

Owner/Operator Address:	1346 E 9TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786-5505
Owner/Operator Telephone:	909-931-7440
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2009-03-13 00:00:00.0
Handler Name:	RODES WAY BOATS INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	81149
NAICS Description:	OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C19 **FURTURE MARINE & FABRICATION** **EMI** **S103368198**
SSW **1346 E 9TH ST** **San Bern. Co. Permit** **N/A**
< 1/8 **UPLAND, CA 91786** **WDS**
0.116 mi. **CIWQS**
615 ft. **Site 4 of 6 in cluster C**

Relative: Lower
Actual: 1206 ft.

EMI:

Name:	FUTURE MARINE & FABRICATION IN
Address:	1346 E 9TH ST
City,State,Zip:	UPLAND, CA 917865505
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	37725
Air District Name:	SC
SIC Code:	7538
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

FURTURE MARINE & FABRICATION (Continued) **S103368198**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: FUTURE MARINE & FABRICATION IN
Address: 1346 E 9TH ST
City,State,Zip: UPLAND, CA 917865505
Year: 1990
County Code: 36
Air Basin: SC
Facility ID: 37725
Air District Name: SC
SIC Code: 7538
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: FUTURE MARINE & FABRICATION IN
Address: 1346 E 9TH ST
City,State,Zip: UPLAND, CA 917865505
Year: 1993
County Code: 36
Air Basin: SC
Facility ID: 37725
Air District Name: SC
SIC Code: 7538
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: FUTURE MARINE & FABRICATION IN
Address: 1346 E 9TH ST
City,State,Zip: UPLAND, CA 917865505
Year: 1995
County Code: 36
Air Basin: SC
Facility ID: 37725
Air District Name: SC
SIC Code: 7538
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 1

FURTURE MARINE & FABRICATION (Continued) **S103368198**

Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

San Bern. Co. Permit:
Name: FUTURE MARINE & FAB INC
Address: 1346 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0003361
Owner: FUTURE MARINE & FAB INC
Permit Number: PT0001653
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 09/30/2009

Name: FUTURE MARINE & FAB INC
Address: 1346 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0003361
Owner: FUTURE MARINE & FAB INC
Permit Number: PT0001654
Permit Category: HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2009

WDS:
Name: FURTURE MARINE & FABRICATION
Address: 1346 E 9th St
City: UPLAND
Facility ID: Santa Ana River 36I014235
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: 9099818082
Facility Contact: GORDON TRAHAN
Agency Name: FURTURE MARINE & FABRICATION
Agency Address: 1346 E 9th St
Agency City,St,Zip: Upland 917865505
Agency Contact: GORDON TRAHAN
Agency Telephone: 9099818082
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported

FURTURE MARINE & FABRICATION (Continued) **S103368198**

Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:
Name: FURTURE MARINE & FABRICATION
Address: 1346 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Agency: Furture Marine & Fabrication
Agency Address: 1346 E 9th St, Upland, CA 91786
Place/Project Type: Industrial - Boat Building and Repairing
SIC/NAICS: 3732
Region: 8
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 36I014235
NPDES Number: CAS000001
Adoption Date: 01/01/1900
Effective Date: 06/23/1998
Termination Date: 07/01/2008
Expiration/Review Date: 01/01/1900
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.09618
Longitude: -117.63227

C20
SSW
< 1/8
0.116 mi.
615 ft.

UPLAND BOAT DEVELOPMENT, L.P.
1346 E. 9TH ST
UPLAND, CA 91786

Site 5 of 6 in cluster C

RCRA NonGen / NLR | **1026482925** / **CAC003088985**

Relative:
Lower

Actual:
1206 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-10-19 00:00:00.0
Handler Name:	UPLAND BOAT DEVELOPMENT, L.P.
Handler Address:	1346 E. 9TH ST
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAC003088985
Contact Name:	UPLAND BOAT DEVELOPMENT, L.P.
Contact Address:	1800 S. BRAND BL #203
Contact City,State,Zip:	GLENDALE, CA 91204
Contact Telephone:	323-450-2334
Contact Fax:	Not reported
Contact Email:	JANICE@ABSOLUTEABATEMENTINC.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:	1800 S. BRAND BL #203
Mailing City,State,Zip:	GLENDALE, CA 91204
Owner Name:	UPLAND BOAT DEVELOPMENT, L.P.
Owner Type:	Other
Operator Name:	UPLAND BOAT DEVELOPMENT, L.P.
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
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

UPLAND BOAT DEVELOPMENT, L.P. (Continued) **1026482925**

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:	2020-10-26 14:55:38.0
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:	UPLAND BOAT DEVELOPMENT, L.P.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 S. BRAND BL #203
Owner/Operator City,State,Zip:	GLENDALE, CA 91204
Owner/Operator Telephone:	323-450-2334
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UPLAND BOAT DEVELOPMENT, L.P.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 S. BRAND BL #203
Owner/Operator City,State,Zip:	GLENDALE, CA 91204
Owner/Operator Telephone:	323-450-2334
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

UPLAND BOAT DEVELOPMENT, L.P. (Continued) **1026482925**

Historic Generators:
Receive Date: 2020-10-19 00:00:00.0
Handler Name: UPLAND BOAT DEVELOPMENT, L.P.
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

D21 **DON VEVERKA'S AUTO SERVICE** **CERS HAZ WASTE** **S108225858**
SSE **1462 E 9TH ST** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.134 mi.
710 ft. **Site 1 of 4 in cluster D**

Relative:
Lower

Actual:
1200 ft.

CERS HAZ WASTE:
Name: DON VEVERKA'S AUTO SERVICE
Address: 1462 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Site ID: 26067
CERS ID: 10055242
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: DON VEVERKA'S AUTO SERVICE
Address: 1462 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0012617
Owner: VEVERKA, DON
Permit Number: PT0022019
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2020

Name: DON VEVERKA'S AUTO SERVICE
Address: 1462 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO

DON VEVERKA'S AUTO SERVICE (Continued) **S108225858**

Facility ID: FA0012617
Owner: VEVERKA, DON
Permit Number: PT0022018
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2020

Name: Z CAR SPECIALTY
Address: 1462 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0007396
Owner: MENESES, MARIO
Permit Number: PT0005546
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 07/31/2008

Name: Z CAR SPECIALTY
Address: 1462 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0007396
Owner: MENESES, MARIO
Permit Number: PT0005545
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 07/31/2008

CERS:
Name: DON VEVERKA'S AUTO SERVICE
Address: 1462 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Site ID: 26067
CERS ID: 10055242
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 26067
Site Name: DON VEVERKA'S AUTO SERVICE
Violation Date: 01-26-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 04/04/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 26067
Site Name: DON VEVERKA'S AUTO SERVICE
Violation Date: 11-30-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste",

DON VEVERKA'S AUTO SERVICE (Continued) **S108225858**

	name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/03/2018. OBSERVATION: The hazardous waste labels on the tanks were found to have become deteriorated. New labels were provided. CORRECTIVE ACTION: Submit photos to the CUPA demonstrating that the container listed above has been properly labeled.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	26067
Site Name:	DON VEVERKA'S AUTO SERVICE
Violation Date:	11-30-2018
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 12/03/2018. OBSERVATION: The EPA ID was found to be inactive. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that the number has been activated.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-26-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-26-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2018

DON VEVERKA'S AUTO SERVICE (Continued) **S108225858**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 26067
Site Name: DON VEVERKA'S AUTO SERVICE
Site Address: 1462 E 9TH ST
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 01-26-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 26067
Facility Name: DON VEVERKA'S AUTO SERVICE
Env Int Type Code: HWG
Program ID: 10055242
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.095818
Longitude: -117.629524

Affiliation:
Affiliation Type Desc: Parent Corporation
Entity Name: DON VEVERKA'S AUTO SERVICE
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: Document Preparer
Entity Name: Don Veverka
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: Legal Owner
Entity Name: VEVERKA, DON
Entity Title: Not reported
Affiliation Address: 1462 E 9TH ST

DON VEVERKA'S AUTO SERVICE (Continued) **S108225858**

Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 946-9150
Affiliation Type Desc:	Operator
Entity Name:	Don Veverka
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:	(909) 946-9150
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1462 E 9TH ST
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Don Veverka
Entity Title:	Owner
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:	Environmental Contact
Entity Name:	Don Veverka
Entity Title:	Not reported
Affiliation Address:	1462 E 9th Street
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

D22 **DON VEVERKAS AUTO SERVICE** **RCRA NonGen / NLR** **1024823569**
SSE **1462 E 9TH ST** **CAL000344583**
1/8-1/4 **UPLAND, CA 91786**
0.134 mi.
710 ft. **Site 2 of 4 in cluster D**

Relative: **Lower**

Actual: **1200 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2009-07-07 00:00:00.0
Handler Name:	DON VEVERKAS AUTO SERVICE
Handler Address:	1462 E 9TH ST
Handler City,State,Zip:	UPLAND, CA 91786-5507
EPA ID:	CAL000344583
Contact Name:	DON VEVERKA
Contact Address:	1462 E 9TH ST
Contact City,State,Zip:	UPLAND, CA 91786-5507
Contact Telephone:	909-946-9150
Contact Fax:	909-946-6494
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1462 E 9TH ST
Mailing City,State,Zip:	UPLAND, CA 91786-5507
Owner Name:	DON VEVERKA
Owner Type:	Other
Operator Name:	DON VEVERKA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
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
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

DON VEVERKAS AUTO SERVICE (Continued) **1024823569**

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:	2018-12-20 13:52:50.0
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:	Owner
Owner/Operator Name:	DON VEVERKA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1462 E 9TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786-5507
Owner/Operator Telephone:	909-946-9150
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DON VEVERKA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1462 E 9TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786-5507
Owner/Operator Telephone:	909-946-9150
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DON VEVERKAS AUTO SERVICE (Continued) **1024823569**

Historic Generators:
- Receive Date: 2009-07-07 00:00:00.0
- Handler Name: DON VEVERKAS AUTO SERVICE
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: Not reported
- Recognized Trader Exporter: Not reported
- Spent Lead Acid Battery Importer: Not reported
- Spent Lead Acid Battery Exporter: Not reported
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 811111
- NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

C23 **FUTURE MARINE** **SWEEPS UST** **S101619067**
SSW **1364 E 009TH ST** **CA FID UST** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.142 mi.
750 ft. **Site 6 of 6 in cluster C**

Relative: **Lower**

Actual: **1204 ft.**

SWEEPS UST:
- Name: FUTURE MARINE
- Address: 1364 E 009TH ST
- City: UPLAND
- Status: Active
- Comp Number: 6072
- Number: 9
- Board Of Equalization: 44-019921
- Referral Date: 06-30-88
- Action Date: 06-30-88
- Created Date: 02-29-88
- Owner Tank Id: 1
- SWRCB Tank Id: 36-000-006072-000001
- Tank Status: A
- Capacity: 4000
- Active Date: 07-01-85
- Tank Use: M.V. FUEL
- STG: P
- Content: REG UNLEADED
- Number Of Tanks: 2

- Name: FUTURE MARINE
- Address: 1364 E 009TH ST
- City: UPLAND
- Status: Active

FUTURE MARINE (Continued) **S101619067**

Comp Number:	6072
Number:	9
Board Of Equalization:	44-019921
Referral Date:	06-30-88
Action Date:	06-30-88
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-006072-000002
Tank Status:	A
Capacity:	4000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	36008358
Regulated By:	UTNKA
Regulated ID:	00006072
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	PO BOX 697
Mailing Address 2:	Not reported
Mailing City,St,Zip:	UPLAND 91786
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

24
NW
1/8-1/4
0.143 mi.
754 ft.

RICHY AGAJANIAN M.D. A PROFESSIONAL CORPORATION
591 N 13TH AVE STE 5
UPLAND, CA 91786

RCRA NonGen / NLR **1024869909**
CAL000438533

Relative:
Higher

Actual:
1249 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-08-21 00:00:00.0
Handler Name:	RICHY AGAJANIAN M.D. A PROFESSIONAL CORPORATION
Handler Address:	591 N 13TH AVE STE 5
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000438533
Contact Name:	MARK HUEPPELSHEUSER
Contact Address:	18000 STUDEBAKER RD STE 800
Contact City,State,Zip:	CERRITOS, CA 90703
Contact Telephone:	562-735-3226
Contact Fax:	562-334-1568
Contact Email:	MARKHUEPPELSHEUSER@THEONCOLOGYINSTITUTE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified

RICHY AGAJANIAN M.D. A PROFESSIONAL CORPORATION (Continued) **1024869909**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	591 N 13TH AVE STE 5
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	RICHY AGAJANIAN M.D
Owner Type:	Other
Operator Name:	MARK HUEPPELSHEUSER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
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
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

RICHY AGAJANIAN M.D. A PROFESSIONAL CORPORATION (Continued) **1024869909**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-07 19:38:52.0
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:	Owner
Owner/Operator Name:	RICHY AGAJANIAN M.D
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	18000 STUDEBAKER RD STE 800
Owner/Operator City,State,Zip:	CERRITOS, CA 90703
Owner/Operator Telephone:	562-735-3226
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MARK HUEPPELSHEUSER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	18000 STUDEBAKER RD STE 800
Owner/Operator City,State,Zip:	CERRITOS, CA 90703
Owner/Operator Telephone:	562-735-3226
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-08-21 00:00:00.0
Handler Name:	RICHY AGAJANIAN M.D. A PROFESSIONAL CORPORATION
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:	621493
NAICS Description:	FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

RICHY AGAJANIAN M.D. A PROFESSIONAL CORPORATION (Continued) **1024869909**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E25 **LEE WISE GARAGE, INC.** **CERS HAZ WASTE** **S113036378**
East **8517 GROVE AVE STE 200** **HAZNET** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730** **San Bern. Co. Permit**
0.154 mi. **CERS**
814 ft. **Site 1 of 4 in cluster E** **HWTS**

Relative:
Lower

Actual:
1222 ft.

CERS HAZ WASTE:
Name: LEE WISE GARAGE, INC.
Address: 8517 GROVE AVE STE 200
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Site ID: 43877
CERS ID: 10041421
CERS Description: Hazardous Waste Generator

HAZNET:
Name: LUPE&JOHNNY'S BODY SHOP
Address: 8517 GROVE AVE
Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 917300000
Contact: CO-OWNER DAVID DOMINGUEZ
Telephone: 9099852315
Mailing Name: Not reported
Mailing Address: 8517 GROVE AVE

Year: 2014
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.108

Year: 2013
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H020 - Solvents Recovery
Tons: 0.0828

Year: 2012
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.108

Year: 2012
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture

LEE WISE GARAGE, INC. (Continued) **S113036378**

Disposal Method: H020 - Solvents Recovery
Tons: 0.072

Year: 2011
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.108

Year: 2010
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H020 - Solvents Recovery
Tons: 0.09

Year: 2009
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H020 - Solvents Recovery
Tons: 0.09

Year: 2009
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.108

Year: 2008
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H020 - Solvents Recovery
Tons: 0.09

Year: 2007
Gepaid: CAL000037220
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.216

Click this hyperlink while viewing on your computer to access
9 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2009
Gen EPA ID: CAL000037220

Shipment Date: 20091112
Creation Date: 5/27/2010 18:31:00
Receipt Date: 20091112
Manifest ID: 005782764JJK

LEE WISE GARAGE, INC. (Continued) **S113036378**

Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090209
Creation Date:	7/14/2009 18:30:20
Receipt Date:	20090209
Manifest ID:	004997681JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.09
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAL000037220

Shipment Date:	20071211
Creation Date:	5/30/2008 18:30:22
Receipt Date:	20071211
Manifest ID:	003332030JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405

LEE WISE GARAGE, INC. (Continued) **S113036378**

Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070424
Creation Date:	12/20/2007 18:30:07
Receipt Date:	20070424
Manifest ID:	000580435JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000037220

Shipment Date:	20131212
Creation Date:	5/17/2014 22:15:09
Receipt Date:	20131212
Manifest ID:	011663771JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005

LEE WISE GARAGE, INC. (Continued) **S113036378**

Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.0828
Waste Quantity:	23
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAL000037220
Shipment Date:	20080916
Creation Date:	2/2/2009 18:30:08
Receipt Date:	20080916
Manifest ID:	004035819JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.09
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000037220
Shipment Date:	20110322
Creation Date:	9/16/2011 18:30:12
Receipt Date:	20110323
Manifest ID:	007422064JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005

LEE WISE GARAGE, INC. (Continued) **S113036378**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000037220
Shipment Date:	20141110
Creation Date:	4/9/2015 22:15:05
Receipt Date:	20141110
Manifest ID:	013250585JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAL000037220
Shipment Date:	20050426
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050426
Manifest ID:	24100193
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001

LEE WISE GARAGE, INC. (Continued) **S113036378**

Meth Code:	R01 - Recycler
Quantity Tons:	0.1656
Waste Quantity:	46
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAL000037220
Shipment Date:	19980219
Creation Date:	4/16/1998 0:00:00
Receipt Date:	19980219
Manifest ID:	96783798
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.18
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAL000037220
Shipment Date:	20100802
Creation Date:	2/1/2011 18:30:18
Receipt Date:	20100802
Manifest ID:	006545046JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005

LEE WISE GARAGE, INC. (Continued) **S113036378**

Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.09
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000037220
Shipment Date:	20060926
Creation Date:	6/29/2007 18:30:21
Receipt Date:	20060926
Manifest ID:	000574680JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.0864
Waste Quantity:	24
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060124
Creation Date:	5/5/2006 18:31:14
Receipt Date:	20060124
Manifest ID:	25087501
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1008
Waste Quantity:	28
Quantity Unit:	G
Additional Code 1:	Not reported

LEE WISE GARAGE, INC. (Continued) **S113036378**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000037220
Shipment Date:	20120917
Creation Date:	3/22/2013 22:15:17
Receipt Date:	20120917
Manifest ID:	009830736JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120103
Creation Date:	5/25/2012 20:30:23
Receipt Date:	20120103
Manifest ID:	008716849JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F005
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.072
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

LEE WISE GARAGE, INC. (Continued) **S113036378**

San Bern. Co. Permit:
Name: AL'S GARAGE
Address: 8517 GROVE AVE STE 200
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Region: SAN BERNARDINO
Facility ID: FA0017917
Owner: DEL RIO, JESUS E.
Permit Number: PT0038700
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2021

Name: AL'S GARAGE
Address: 8517 GROVE AVE STE 200
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Region: SAN BERNARDINO
Facility ID: FA0017917
Owner: DEL RIO, JESUS E.
Permit Number: PT0038701
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2021

Name: LEE WISE GARAGE, INC.
Address: 8517 GROVE AVE STE 200
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Region: SAN BERNARDINO
Facility ID: FA0004404
Owner: MAUNG-U, CHARLES
Permit Number: PT0004889
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 04/30/2019

Name: LEE WISE GARAGE, INC.
Address: 8517 GROVE AVE STE 200
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Region: SAN BERNARDINO
Facility ID: FA0004404
Owner: MAUNG-U, CHARLES
Permit Number: PT0004890
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 04/30/2017

CERS:
Name: LEE WISE GARAGE, INC.
Address: 8517 GROVE AVE STE 200
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Site ID: 43877
CERS ID: 10041421
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 43877
Site Name: LEE WISE GARAGE, INC.
Violation Date: 04-20-2015

LEE WISE GARAGE, INC. (Continued) **S113036378**

Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 08/11/2015. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-05-2018
Citation:	Un-Specified
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 07/12/2018. Failure to obtain and maintain a CUPA Hazardous Waste generator permit. (SBCC 23.0602) OBSERVATION: CUPA Hazardous Waste Generator permits have not been obtained with this Division. CORRECTIVE ACTION: Pay all applicable permit fees upon receipt of invoice.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-20-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/16/2015. Used CERS staff for submittal assistance
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-05-2018
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 05/10/2018. OBSERVATION: An EPA ID number has not been obtained for this location. CORRECTIVE ACTION: Obtain a permanent EPA ID number by submitting form 1358 to DTSC.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-20-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter

LEE WISE GARAGE, INC. (Continued) **S113036378**

	6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 06/01/2015. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-05-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	OBSERVATION: A Business Plan was not submitted to CERS. CORRECTIVE ACTION: Submit an accurate and complete Business Plan to CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-20-2015
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 06/01/2015.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-05-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	OBSERVATION: Business Plan has not been established with this Division. CORRECTIVE ACTION: Using CERS, establish and implement the business plan.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Violation Date:	04-05-2018
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 07/12/2018. Failure to obtain a CUPA Hazardous Materials Handler permit (SBCC 23.0602(a)) OBSERVATION: CUPA

LEE WISE GARAGE, INC. (Continued) **S113036378**

Hazardous Materials Handler permits have not been obtained with this Division. CORRECTIVE ACTION: Pay all applicable permit fees upon receipt of invoice.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-20-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-20-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 43877
Site Name: LEE WISE GARAGE, INC.

LEE WISE GARAGE, INC. (Continued) **S113036378**

Site Address:	8517 GROVE AVE STE 200
Site City:	RANCHO CUCAMONGA
Site Zip:	91730
Enf Action Date:	04-20-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	43877
Site Name:	LEE WISE GARAGE, INC.
Site Address:	8517 GROVE AVE STE 200
Site City:	RANCHO CUCAMONGA
Site Zip:	91730
Enf Action Date:	04-20-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	MAUNG-U, CHARLES
Entity Title:	Not reported
Affiliation Address:	8517 N GROVE AVE, SUITE#200
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91730
Affiliation Phone:	(909) 982-3579

Affiliation Type Desc:	Parent Corporation
Entity Name:	Al's Garage
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:	Environmental Contact
Entity Name:	CHARLES MAUNG-U
Entity Title:	Not reported
Affiliation Address:	8517 N GROVE AVE, suite#200
Affiliation City:	RANCHO CUCAMONGA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91730
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address

LEE WISE GARAGE, INC. (Continued) **S113036378**

Entity Title: Not reported
Affiliation Address: 8517 NORTH GROVE AVE, SUITE # 200
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91730
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: CHARLES MAUNG-U
Entity Title: PRESIDENT/OWNER
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 Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Document Preparer
Entity Name: CHARLES MAUNG-U
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: Operator
Entity Name: LEE WISE GARAGE 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: (909) 982-3579

HWTS:
Name: LUPE&JOHNNY'S BODY SHOP
Address: 8517 GROVE AVE
Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 917300000
EPA ID: CAL000037220
Inactive Date: 06/30/2020
Create Date: 08/01/1990

LEE WISE GARAGE, INC. (Continued) **S113036378**

Last Act Date:	01/04/2021
Mailing Name:	Not reported
Mailing Address:	8517 GROVE AVE SUITE 210
Mailing Address 2:	Not reported
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 917300000
Owner Name:	DAVID DOMINGUEZ CO OWNER
Owner Address:	1203 E 13TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917860000
Contact Name:	CO-OWNER DAVID DOMINGUEZ
Contact Address:	1203 E 13TH ST
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786

NAICS:

EPA ID:	CAL000037220
Create Date:	2005-09-27 15:01:35.000
NAICS Code:	811121
NAICS Description:	Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date:	1990-08-01 00:00:00
Inactive Date:	2020-06-30 00:00:00
Facility Name:	LUPE&JOHNNY'S BODY SHOP
Facility Address:	8517 GROVE AVE
Facility Address 2:	Not reported
Facility City:	RANCHO CUCAMONGA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917300000

E26 **AL'S GARAGE** **RCRA NonGen / NLR** **1024867422**
East **8517 GROVE AVE** **CAL000436017**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.154 mi.
814 ft. **Site 2 of 4 in cluster E**

Relative: **Lower**
Actual: **1222 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2018-05-10 00:00:00.0
Handler Name:	AL'S GARAGE	
Handler Address:		8517 GROVE AVE
Handler City,State,Zip:		RANCHO CUCAMONGA, CA 91730
EPA ID:		CAL000436017
Contact Name:		JESUS DEL RIO OWNER
Contact Address:		8517 GROVE AVE
Contact City,State,Zip:		RANCHO CUCAMONGA, CA 91730
Contact Telephone:		909-946-7000
Contact Fax:		Not reported
Contact Email:		JESSE@ALSGARAGEAUTOREPAIR.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported

AL'S GARAGE (Continued) **1024867422**

Mailing Address:	8517 GROVE AVE
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Owner Name:	JESUS DEL RIO
Owner Type:	Other
Operator Name:	JESUS DEL RIO OWNER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
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
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:	2018-09-07 19:38:10.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

AL'S GARAGE (Continued) **1024867422**

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:	JESUS DEL RIO OWNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	8517 GROVE AVE
Owner/Operator City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Owner/Operator Telephone:	909-946-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JESUS DEL RIO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	8517 GROVE AVE
Owner/Operator City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Owner/Operator Telephone:	909-946-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-05-10 00:00:00.0
Handler Name: AL'S GARAGE	
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:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E27 **DON CORTEZ TIRE SERVICE** **San Bern. Co. Permit** **S104251664**
East **8517 N GROVE AVE** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.154 mi.
814 ft. **Site 3 of 4 in cluster E**

Relative: San Bern. Co. Permit:
Lower

Actual: Name: DON CORTEZ TIRE SERVICE
1222 ft. Address: 8517 N GROVE AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Region: SAN BERNARDINO
Facility ID: FA0004513
Owner: RANULFA CORIA
Permit Number: PT0004195
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 08/31/2021

Name: DON CORTEZ TIRE SERVICE
Address: 8517 N GROVE AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Region: SAN BERNARDINO
Facility ID: FA0004513
Owner: RANULFA CORIA
Permit Number: PT0040371
Permit Category: NON-GENERATOR/NON-HANDLER SURVEY(NB)
Facility Status: INACTIVE
Expiration Date: 08/31/2021

Name: DON CORTEZ TIRE SERVICE
Address: 8517 N GROVE AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Region: SAN BERNARDINO
Facility ID: FA0004513
Owner: RANULFA CORIA
Permit Number: PT0037777
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 08/31/2017

E28 **LUPE&JOHNNY'S BODY SHOP** **RCRA NonGen / NLR** **1024787774**
East **8517 GROVE AVE** **CAL000037220**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.154 mi.
814 ft. **Site 4 of 4 in cluster E**

Relative: RCRA NonGen / NLR:
Lower

Actual: Date Form Received by Agency: 1990-08-01 00:00:00.0
1222 ft. Handler Name: LUPE&JOHNNY'S BODY SHOP
Handler Address: 8517 GROVE AVE
Handler City,State,Zip: RANCHO CUCAMONGA, CA 91730-0000
EPA ID: CAL000037220
Contact Name: CO-OWNER DAVID DOMINGUEZ
Contact Address: 1203 E 13TH ST
Contact City,State,Zip: UPLAND, CA 91786
Contact Telephone: 909-985-2315
Contact Fax: 909-985-2312
Contact Email: LUPEANDJOHNNYBODYSHOP@VERIZON.NET
Contact Title: Not reported
EPA Region: 09

LUPE&JOHNNY'S BODY SHOP (Continued) **1024787774**

Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	8517 GROVE AVE SUITE 210
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 91730-0000
Owner Name:	DAVID DOMINGUEZ CO OWNER
Owner Type:	Other
Operator Name:	CO-OWNER DAVID DOMINGUEZ
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
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
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

LUPE&JOHNNY'S BODY SHOP (Continued) **1024787774**

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:	2018-09-05 15:41:25.0
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:	CO-OWNER DAVID DOMINGUEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1203 E 13TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-985-2315
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DAVID DOMINGUEZ CO OWNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1203 E 13TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-985-2315
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1990-08-01 00:00:00.0
Handler Name:	LUPE&JOHNNY'S BODY SHOP
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:	811121
NAICS Description:	AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

LUPE&JOHNNY'S BODY SHOP (Continued) **1024787774**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F29 **UPLAND CONVALESCENT HOSP.** **SWEEPS UST** **S101619051**
WNW **1221 E ARROW HWY** **HIST UST** **N/A**
1/8-1/4 **UPLAND, CA 91785** **CA FID UST**
0.161 mi.
852 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
1243 ft.

SWEEPS UST:
Name: UPLAND CONVALESCENT HOSP.
Address: 1221 E ARROW HWY
City: UPLAND
Status: Active
Comp Number: 204
Number: 9
Board Of Equalization: 44-019726
Referral Date: 09-11-91
Action Date: 09-11-91
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-000204-000001
Tank Status: A
Capacity: 60
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 1

HIST UST:
Name: UPLAND CONVALESENT HOSP
Address: 1221 E ARROW HWY
City,State,Zip: UPLAND, CA 91785
File Number: 0002A96B
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A96B.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported

UPLAND CONVALESCENT HOSP. (Continued) **S101619051**

Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 36008251
Regulated By: UTNKA
Regulated ID: 00000204
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1221 E ARROW HWY
Mailing Address 2: Not reported
Mailing City,St,Zip: UPLAND 91785
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

F30 **UPLAND CONVALESCENT HOSP.** **HIST UST** **U001570645**
WNW **1221 E ARROW HWY** **N/A**
1/8-1/4 **UPLAND, CA 91785**
0.161 mi.
852 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
1243 ft.

HIST UST:
Name: UPLAND CONVALESCENT HOSP.
Address: 1221 E ARROW HWY
City,State,Zip: UPLAND, CA 91785
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000000204
Facility Type: Other
Other Type: HOSPITAL
Contact Name: BILL MILTON ADMIN.
Telephone: 7149851903
Owner Name: UPLAND CONVALESCENT HOSPITAL
Owner Address: 1221 E. ARROW HWY
Owner City,St,Zip: UPLAND, CA 91786
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1970
Tank Capacity: 00000060
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

G31 **HENRY'S LAWNMOWER SHOP** **San Bern. Co. Permit** **S103368398**
SW **1294 E 9TH ST** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.167 mi.
882 ft. **Site 1 of 3 in cluster G**

Relative: San Bern. Co. Permit:
Lower
Name: HENRY'S LAWNMOWER SHOP
Actual: Address: 1294 E 9TH ST
1207 ft. City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0003748
Owner: CHOY, HENRY YOUNGTAE
Permit Number: PT0004353
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2008

Name: HENRY'S LAWNMOWER SHOP
Address: 1294 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0003748
Owner: CHOY, HENRY YOUNGTAE
Permit Number: PT0004352
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2008

G32 **TITAN CONSOLIDATED IND, INC** **San Bern. Co. Permit** **S108222848**
SW **1279 E 9TH ST** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.171 mi.
902 ft. **Site 2 of 3 in cluster G**

Relative: San Bern. Co. Permit:
Lower
Name: TITAN CONSOLIDATED IND, INC
Actual: Address: 1279 E 9TH ST
1210 ft. City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0010217
Owner: TITAN INDUSTRIAL METALS CORP.
Permit Number: PT0017595
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 02/28/2010

Name: TITAN CONSOLIDATED IND, INC
Address: 1279 E 9TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0010217
Owner: TITAN INDUSTRIAL METALS CORP.
Permit Number: PT0017594
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 02/28/2010

G33 **TITAN CONSOLIDATED INDUSTRIES INC** **RCRA NonGen / NLR** **1024876648**
SW **1279 E 9TH ST** **CAR000141143**
1/8-1/4 **UPLAND, CA 91786**
0.171 mi.
902 ft. **Site 3 of 3 in cluster G**

Relative: **Lower**

Actual: **1210 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2004-07-12 00:00:00.0
Handler Name:	TITAN CONSOLIDATED INDUSTRIES INC
Handler Address:	1279 E 9TH ST
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAR000141143
Contact Name:	GRANT M TUTTLE
Contact Address:	1279 E 9TH ST
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-579-0321
Contact Fax:	Not reported
Contact Email:	TCICONSOLIDATED@VERIZON.NET
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1279 E 9TH ST
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	MIKE HUFFMAN
Owner Type:	Private
Operator Name:	GRANT TUTTLE
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
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:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
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

TITAN CONSOLIDATED INDUSTRIES INC (Continued) **1024876648**

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:	2018-11-20 17:35:26.0
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:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GRANT TUTTLE
Legal Status:	Private
Date Became Current:	2003-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MIKE HUFFMAN
Legal Status:	Private
Date Became Current:	1977-02-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1257 E 9TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

TITAN CONSOLIDATED INDUSTRIES INC (Continued) **1024876648**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GRANT TUTTLE
Legal Status:	Private
Date Became Current:	2002-12-02 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DORIS COOK
Legal Status:	Private
Date Became Current:	2003-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2003-03-04 00:00:00.0
Handler Name:	TITAN CONSOLIDATED INDUSTRIES INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2004-07-12 00:00:00.0
Handler Name:	TITAN CONSOLIDATED INDUSTRIES INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	48411
NAICS Description:	GENERAL FREIGHT TRUCKING, LOCAL

NAICS Code:	562111

TITAN CONSOLIDATED INDUSTRIES INC (Continued) **1024876648**

NAICS Description: SOLID WASTE COLLECTION

NAICS Code: 562211
NAICS Description: HAZARDOUS WASTE TREATMENT AND DISPOSAL

NAICS Code: 562219
NAICS Description: OTHER NONHAZARDOUS WASTE TREATMENT AND DISPOSAL

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Transporters - Manifest and Recordkeeping
Date Violation was Determined:	2007-04-10 00:00:00.0
Actual Return to Compliance Date:	2007-04-21 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	2007-04-10 00:00:00.0

TITAN CONSOLIDATED INDUSTRIES INC (Continued) **1024876648**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Transporters - General
Date Violation was Determined: 2007-04-10 00:00:00.0
Actual Return to Compliance Date: 2007-04-21 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2007-04-10 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

TITAN CONSOLIDATED INDUSTRIES INC (Continued) **1024876648**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	2009-02-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-04-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-04-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-04-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-04-21 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

F34 **UPLAND ORTHOPEDIC MEDICAL GRP** **San Bern. Co. Permit** **S104771680**
WNW **1230 E ARROW HWY** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.183 mi.
965 ft. **Site 3 of 3 in cluster F**

Relative: **Higher**
Actual: **1241 ft.**

San Bern. Co. Permit:

Name:	UPLAND ORTHOPEDIC MEDICAL GRP
Address:	1230 E ARROW HWY
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006957
Owner:	UPLAND ORTHOPEDIC MED GRP
Permit Number:	PT0007429
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	07/31/2008

D35 **CITY OF RANCHO CUCAMONGA** **RCRA-SQG** **1001115441**
SSE **111 GROVE AVE** **FINDS** **CAR000013763**
1/8-1/4 **UPLAND, CA 91786** **ECHO**
0.186 mi. **HAZNET**
984 ft. **Site 3 of 4 in cluster D** **HWTS**

Relative: **Lower**
Actual: **1194 ft.**

RCRA-SQG:

Date Form Received by Agency:	1996-07-11 00:00:00.0
Handler Name:	CITY OF RANCHO CUCAMONGA
Handler Address:	111 GROVE AVE
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAR000013763
Contact Name:	ANTHONY ALVAREZ
Contact Address:	9153 9TH ST
Contact City,State,Zip:	RANCHO CUCAMONGA, CA 91786
Contact Telephone:	909-989-2813
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	County
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	9TH ST
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 91786
Owner Name:	CITY OF RANCHO CUCAMONGA
Owner Type:	County
Operator Name:	Not reported
Operator Type:	Not reported
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

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

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:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
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:	2000-09-15 17:30:55.0
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CITY OF RANCHO CUCAMONGA
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	9153 9TH ST
Owner/Operator City,State,Zip:	RANCHO CUCAMONGA, CA 91730

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Owner/Operator Telephone: 909-989-2813
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1996-07-11 00:00:00.0
Handler Name: CITY OF RANCHO CUCAMONGA
Federal Waste Generator Description: Small Quantity Generator
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 Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002913018

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1001115441
Registry ID: 110002913018
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002913018
Name: CITY OF RANCHO CUCAMONGA
Address: 111 GROVE AVE
City,State,Zip: UPLAND, CA 91786

HAZNET:
Name: CITY OF RANCHO CUCAMONGA

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Address:	111 GROVE AVE
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
Contact:	DAVE BLEVINS MAINT MGR
Telephone:	9099892813
Mailing Name:	Not reported
Mailing Address:	9153 9TH ST
Year:	1998
Gepaid:	CAR000013763
TSD EPA ID:	CAD099452708
CA Waste Code:	222 - Oil/water separation sludge
Disposal Method:	R01 - Recycler
Tons:	0.3336
Year:	1997
Gepaid:	CAR000013763
TSD EPA ID:	CAD008252405
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	R01 - Recycler
Tons:	2.023
Year:	1997
Gepaid:	CAR000013763
TSD EPA ID:	CAD008252405
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	0.3793
Year:	1997
Gepaid:	CAR000013763
TSD EPA ID:	CAD088504881
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H01 - Transfer Station
Tons:	0.0625
Year:	1997
Gepaid:	CAR000013763
TSD EPA ID:	CAD088504881
CA Waste Code:	121 - Alkaline solution (pH >= 12.5) with metals
Disposal Method:	R01 - Recycler
Tons:	0.0625
Year:	1996
Gepaid:	CAR000013763
TSD EPA ID:	CAD008252405
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	0.35
Year:	1996
Gepaid:	CAR000013763
TSD EPA ID:	CAD008252405
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	R01 - Recycler
Tons:	1.394

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Year: 1996
Gepaid: CAR000013763
TSD EPA ID: CAD088504881
CA Waste Code: 121 - Alkaline solution (pH >= 12.5) with metals
Disposal Method: R01 - Recycler
Tons: 0.05

Year: 1996
Gepaid: CAR000013763
TSD EPA ID: CAD088504881
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: R01 - Recycler
Tons: 0.125

Year: 1996
Gepaid: CAR000013763
TSD EPA ID: CAT080025711
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 0.418

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1997
Gen EPA ID: CAR000013763

Shipment Date: 19970619
Creation Date: 12/4/1997 0:00:00
Receipt Date: 19970620
Manifest ID: 96029555
Trans EPA ID: CAR000018168
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD088504881
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: D006
Meth Code: H01 - Transfer Station
Quantity Tons: 0.05
Waste Quantity: 100
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19970619
Creation Date: 12/4/1997 0:00:00
Receipt Date: 19970620
Manifest ID: 96029557

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Trans EPA ID:	CAR000018168
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.17
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970619
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970620
Manifest ID:	96029557
Trans EPA ID:	CAR000018168
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.51
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970619
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970620
Manifest ID:	96029557
Trans EPA ID:	CAR000018168
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970417
Creation Date:	7/17/1997 0:00:00
Receipt Date:	19970418
Manifest ID:	96882558
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970417
Creation Date:	7/17/1997 0:00:00
Receipt Date:	19970418
Manifest ID:	96882558
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Additional Code 5:	Not reported
Shipment Date:	19970417
Creation Date:	7/17/1997 0:00:00
Receipt Date:	19970418
Manifest ID:	96882558
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970129
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970129
Manifest ID:	96299867
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.595
Waste Quantity:	175
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970129
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970129
Manifest ID:	96299867
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970129
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970129
Manifest ID:	96299867
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAR000013763

Shipment Date:	19980417
Creation Date:	6/26/1998 0:00:00
Receipt Date:	19980423
Manifest ID:	96692583
Trans EPA ID:	CAR000018168
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3336
Waste Quantity:	80
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAR000013763
Shipment Date:	19961014
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961014
Manifest ID:	96299627
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD088504881
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961014
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961014
Manifest ID:	96299627
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD088504881
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.125
Waste Quantity:	250

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961014
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961014
Manifest ID:	96299627
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD088504881
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	121 - Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc
RCRA Code:	D002
Meth Code:	R01 - Recycler
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961011
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961011
Manifest ID:	96299620
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Shipment Date:	19961011
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961011
Manifest ID:	96299620
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.68
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19961011
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961011
Manifest ID:	96299620
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.34
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960716
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960719
Manifest ID:	96024307
Trans EPA ID:	CAD982403198
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960716
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960719
Manifest ID:	96024309
Trans EPA ID:	CAD982403198
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080025711
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	CITY OF RANCHO CUCAMONGA
Address:	111 GROVE AVE
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAR000013763
Inactive Date:	06/30/1999
Create Date:	02/26/1997
Last Act Date:	07/06/2010
Mailing Name:	Not reported
Mailing Address:	9153 9TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 917304406
Owner Name:	CITY OF RANCHO CUCAMONGA
Owner Address:	9153 9TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	RANCHO CUCAMONGA, CA 917304406
Contact Name:	DAVE BLEVINS MAINT MGR

CITY OF RANCHO CUCAMONGA (Continued) **1001115441**

Contact Address: INACTIVE PER VQ99 - BMI
Contact Address 2: Not reported
City,State,Zip: RANCHO CUCAMONGA, CA 917304406

D36 **MAINTENANCE YARD** **HIST UST** **U001570690**
SSE **111 GROVE AVE** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.186 mi.
984 ft. **Site 4 of 4 in cluster D**

Relative: **Lower**
Actual: **1194 ft.**

HIST UST:

Name:	MAINTENANCE YARD
Address:	111 GROVE AVE
City,State,Zip:	UPLAND, CA 91786
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000034402
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	7149891851
Owner Name:	CITY OF RANCHO CUCAMONGA
Owner Address:	9320 "C" BASELINE RD.
Owner City,St,Zip:	RANCHO CUCAMONGA, CA 91730
Total Tanks:	0003
Tank Num:	001
Container Num:	A
Year Installed:	1980
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	B
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	C
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

H37 **SAN ANTONIO MEDICAL PLAZA** **RCRA-SQG** **1000818331**
NW **685 N 13TH AVE** **FINDS** **CAD983641960**
1/8-1/4 **UPLAND, CA 91786** **ECHO**
0.206 mi. **San Bern. Co. Permit**
1086 ft. **Site 1 of 2 in cluster H**

Relative: **Higher**
Actual: **1259 ft.**

RCRA-SQG:

Date Form Received by Agency:	1996-09-01 00:00:00.0
Handler Name:	SAN ANTONIO MEDICAL PLAZA
Handler Address:	685 N 13TH AVE
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAD983641960
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	SAN BERNARDINO RD
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	SAN ANTONIO COMMUNITY HOSPITAL
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
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:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
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

SAN ANTONIO MEDICAL PLAZA (Continued) **1000818331**

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:	2000-09-15 17:30:43.0
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAN ANTONIO COMMUNITY HOSPITAL
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	999 SAN BERNARDINO RD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	714-985-2811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-09-01 00:00:00.0
Handler Name:	SAN ANTONIO MEDICAL PLAZA
Federal Waste Generator Description:	Small Quantity Generator
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

SAN ANTONIO MEDICAL PLAZA (Continued) **1000818331**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002880080

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000818331
Registry ID: 110002880080
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002880080
Name: SAN ANTONIO MEDICAL PLAZA
Address: 685 N 13TH AVE
City,State,Zip: UPLAND, CA 91786

San Bern. Co. Permit:
Name: SAN ANTONIO MEDICAL PLAZA
Address: 685 N 13TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005881
Owner: SAN ANTONIO REGIONAL HOSPITAL
Permit Number: PT0007432
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2012

H38 **PARKSIDE MEDICAL GROUP** **RCRA NonGen / NLR** **1024839202**
NNW **1310 SAN BERNARDINO RD STE 102** **CAL000386917**
1/8-1/4 **UPLAND, CA 91786**
0.207 mi.
1091 ft. **Site 2 of 2 in cluster H**

Relative: **Higher**

Actual: **1259 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2013-07-01 00:00:00.0
Handler Name:	PARKSIDE MEDICAL GROUP	
Handler Address:		1310 SAN BERNARDINO RD STE 102
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAL000386917
Contact Name:		ZEINAB ALI
Contact Address:		1310 SAN BERNARDINO RD STE 102
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-608-2008
Contact Fax:		909-608-7705
Contact Email:		ZEINABALI5@AOL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1310 SAN BERNARDINO RD STE 102
Mailing City,State,Zip:		UPLAND, CA 91786-0000
Owner Name:		MOHSEN ALI
Owner Type:		Other
Operator Name:		ZEINAB ALI
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
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
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

PARKSIDE MEDICAL GROUP (Continued) **1024839202**

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:	2018-09-06 17:02:39.0
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:	Owner
Owner/Operator Name:	MOHSEN ALI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1310 SAN BERNARDINO RD STE 102
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-608-2008
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ZEINAB ALI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1310 SAN BERNARDINO RD STE 102
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-608-2008
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

PARKSIDE MEDICAL GROUP (Continued) **1024839202**

Historic Generators:
Receive Date: 2013-07-01 00:00:00.0
Handler Name: PARKSIDE MEDICAL GROUP
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: 621493
NAICS Description: FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I39 **JIM'S TEXACO** **SWEEPS UST** **S101591488**
SE **8715 GROVE ST** **HIST UST** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730** **CA FID UST**
0.209 mi.
1101 ft. **Site 1 of 3 in cluster I**

Relative:
Lower

Actual:
1193 ft.

SWEEPS UST:
Name: JIM'S TEXACO
Address: 8715 GROVE ST
City: RANCHO CUCAMONGA
Status: Active
Comp Number: 136
Number: 2
Board Of Equalization: 44-019723
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-000136-000001
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 5

Name: JIM'S TEXACO
Address: 8715 GROVE ST
City: RANCHO CUCAMONGA
Status: Active

JIM'S TEXACO (Continued) **S101591488**

Comp Number: 136
Number: 2
Board Of Equalization: 44-019723
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-000136-000002
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: JIM'S TEXACO
Address: 8715 GROVE ST
City: RANCHO CUCAMONGA
Status: Active
Comp Number: 136
Number: 2
Board Of Equalization: 44-019723
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-000136-000003
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: JIM'S TEXACO
Address: 8715 GROVE ST
City: RANCHO CUCAMONGA
Status: Active
Comp Number: 136
Number: 2
Board Of Equalization: 44-019723
Referral Date: 07-28-92
Action Date: 07-28-92
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 36-000-000136-000004
Tank Status: A
Capacity: 3000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: JIM'S TEXACO

JIM'S TEXACO (Continued) **S101591488**

Address:	8715 GROVE ST
City:	RANCHO CUCAMONGA
Status:	Active
Comp Number:	136
Number:	2
Board Of Equalization:	44-019723
Referral Date:	07-28-92
Action Date:	07-28-92
Created Date:	02-29-88
Owner Tank Id:	5
SWRCB Tank Id:	36-000-000136-000005
Tank Status:	A
Capacity:	280
Active Date:	07-01-85
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported

HIST UST:

Name:	JIMS EXXON
Address:	8715 GROVE ST
City,State,Zip:	CUCAMONGA, CA 91730
File Number:	0002A065
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A065.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	36008249
Regulated By:	UTNKA
Regulated ID:	00000136
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	8715 GROVE ST

JIM'S TEXACO (Continued) **S101591488**

Mailing Address 2: Not reported
Mailing City,St,Zip: RANCHO CUCAMONGA 91730
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

I40 **JIM'S TEXACO** **LUST** **S103674787**
SE **8715 GROVE AVE** **Cortese** **N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730** **HIST CORTESE**
0.209 mi.
1101 ft. **Site 2 of 3 in cluster I**

Relative:
Lower

Actual:
1193 ft.

LUST:
Name: JIM'S TEXACO
Address: 8715 GROVE AVE
City,State,Zip: RANCHO CUCAMONGA, CA 91730
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100365
Global Id: T0607100365
Latitude: 34.095534
Longitude: -117.628159
Status: Completed - Case Closed
Status Date: 05/08/1996
Case Worker: JC
RB Case Number: 083602602T
Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency
Local Case Number: 94075
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0607100365
Contact Type: Local Agency Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

Global Id: T0607100365
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

LUST:
Global Id: T0607100365

JIM'S TEXACO (Continued) **S103674787**

Action Type: ENFORCEMENT
Date: 05/08/1996
Action: Closure/No Further Action Letter

Global Id: T0607100365
Action Type: Other
Date: 10/20/1994
Action: Leak Discovery

Global Id: T0607100365
Action Type: Other
Date: 10/20/1994
Action: Leak Stopped

Global Id: T0607100365
Action Type: Other
Date: 12/02/1994
Action: Leak Reported

LUST:
Global Id: T0607100365
Status: Open - Case Begin Date
Status Date: 10/20/1994

Global Id: T0607100365
Status: Open - Site Assessment
Status Date: 10/20/1994

Global Id: T0607100365
Status: Open - Site Assessment
Status Date: 12/13/1994

Global Id: T0607100365
Status: Open - Remediation
Status Date: 01/13/1995

Global Id: T0607100365
Status: Completed - Case Closed
Status Date: 05/08/1996

LUST REG 8:
Name: JIM'S TEXACO
Address: 8715 GROVE AVE
City: RANCHO CUCAMONGA
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083602602T
Local Case Num: 94075
Case Type: Soil only
Substance: Waste Oil
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: SANTA ANA

JIM'S TEXACO (Continued) **S103674787**

Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	UNK
Global ID:	T0607100365
How Stopped Date:	10/20/1994
Enter Date:	2/3/1995
Date Confirmation of Leak Began:	12/13/1994
Date Preliminary Assessment Began:	10/20/1994
Discover Date:	10/20/1994
Enforcement Date:	Not reported
Close Date:	5/8/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	12/13/1994
Date Remediation Plan Submitted:	1/13/1995
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	2/3/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0950592
Longitude:	-117.6286331
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CORTESE:

Name:	JIM'S TEXACO
Address:	8715 GROVE AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100365
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported

JIM'S TEXACO (Continued) **S103674787**

Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	JIM'S TEXACO
edr_fadd1:	8715 GROVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602602T

I41 **JIM'S TEXACO** **HIST UST U001569288**
SE **8715 GROVE AVE** **CERS N/A**
1/8-1/4 **RANCHO CUCAMONGA, CA 91730**
0.209 mi.
1101 ft. **Site 3 of 3 in cluster I**

Relative: HIST UST:
Lower

Name:	JIM'S EXXON
Address:	8715 GROVE AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91730
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000000136
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	JIM MCALEAR
Telephone:	7149817009
Owner Name:	JIM MCALEAR
Owner Address:	8715 GROVE
Owner City,St,Zip:	CUCAMONGA, CA 91730
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	1972
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002

Actual:
1193 ft.

JIM'S TEXACO (Continued) **U001569288**

Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00003000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	005
Container Num:	5
Year Installed:	1972
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

CERS:

Name:	JIM'S TEXACO
Address:	8715 GROVE AVE
City,State,Zip:	RANCHO CUCAMONGA, CA 91730
Site ID:	214566
CERS ID:	T0607100365
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title:	Not reported

JIM'S TEXACO (Continued) **U001569288**

Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

J42 **CALIFORNIA CONCRETE PRODUCTSI** **LUST** **U001570657**
SSW **1337 BOWEN ST** **HIST UST** **N/A**
1/8-1/4 **UPLAND, CA 91786** **HIST CORTESE**
0.232 mi. **San Bern. Co. Permit**
1223 ft. **Site 1 of 3 in cluster J** **CERS**

Relative:
Lower

Actual:
1191 ft.

LUST:
Name: PARAGON BUILDING PRODUCTS
Address: 1337 BOWEN ST
City,State,Zip: UPLAND, CA 91786
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100329
Global Id: T0607100329
Latitude: 34.0948572
Longitude: -117.6315552
Status: Completed - Case Closed
Status Date: 10/19/1994
Case Worker: CR2
RB Case Number: 083602457T
Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency
Local Case Number: 94021
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607100329
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607100329
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0607100329
Action Type: ENFORCEMENT
Date: 10/19/1994

CALIFORNIA CONCRETE PRODUCTSI (Continued) **U001570657**

Action: Closure/No Further Action Letter

Global Id: T0607100329
Action Type: Other
Date: 04/14/1994
Action: Leak Discovery

Global Id: T0607100329
Action Type: Other
Date: 04/14/1994
Action: Leak Stopped

Global Id: T0607100329
Action Type: Other
Date: 05/02/1994
Action: Leak Reported

Global Id: T0607100329
Action Type: REMEDIATION
Date: 04/14/1994
Action: Excavation

LUST:
Global Id: T0607100329
Status: Open - Case Begin Date
Status Date: 04/02/1994

Global Id: T0607100329
Status: Open - Site Assessment
Status Date: 04/02/1994

Global Id: T0607100329
Status: Open - Site Assessment
Status Date: 04/24/1994

Global Id: T0607100329
Status: Open - Remediation
Status Date: 05/27/1994

Global Id: T0607100329
Status: Completed - Case Closed
Status Date: 10/19/1994

HIST UST:
Name: CALIFORNIA CONCRETE PRODUCTSI
Address: 1337 BOWEN ST
City,State,Zip: UPLAND, CA 91786
File Number: 00029AD4
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029AD4.pdf
Region: STATE
Facility ID: 00000001706
Facility Type: Other
Other Type: MANUFACTURING PLANT
Contact Name: JOHN GUERRERO
Telephone: 7149469095

CALIFORNIA CONCRETE PRODUCTSI (Continued) **U001570657**

Owner Name: CALIFORNIA CONCRETE PRODUCTS,I
Owner Address: 1337 BOWEN ST.
Owner City,St,Zip: UPLAND, CA 91786
Total Tanks: 0003

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000280
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

HIST CORTESE:
edr_fname: PARAGON BUILDING PRODUCTS
edr_fadd1: 1337 BOWEN
City,State,Zip: UPLAND, CA 91786
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083602457T

San Bern. Co. Permit:
Name: CALIFORNIA CONCRETE PRODUCTS
Address: 1337 BOWEN ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0001706
Owner: PARAGON BUILDING PRODUCTS, INC
Permit Number: PT0002526
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 08/31/2013

Name: CALIFORNIA CONCRETE PRODUCTS

CALIFORNIA CONCRETE PRODUCTSI (Continued) **U001570657**

Address: 1337 BOWEN ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0001706
Owner: PARAGON BUILDING PRODUCTS, INC
Permit Number: PT0002525
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2010

CERS:
Name: PARAGON BUILDING PRODUCTS
Address: 1337 BOWEN ST
City,State,Zip: UPLAND, CA 91786
Site ID: 247321
CERS ID: T0607100329
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9093868419

Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

J43 **CALIFORNIA CONCRETE PRODUCTS,I** **CA FID UST** **S101619057**
SSW **1337 BOWEN ST** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.232 mi.
1223 ft. **Site 2 of 3 in cluster J**

Relative:
Lower

Actual:
1191 ft.

CA FID UST:
Facility ID: 36008317
Regulated By: UTNKA
Regulated ID: 00001706
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149469095
Mail To: Not reported
Mailing Address: 1337 BOWEN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: UPLAND 91786
Contact: Not reported

CALIFORNIA CONCRETE PRODUCTS,I (Continued) **S101619057**

Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

J44 **PARAGON BUILDING PRODUCTS** **LUST** **S105032479**
SSW **1337 BOWEN ST** **SWEEPS UST** **N/A**
1/8-1/4 **UPLAND, CA 91786** **Cortese**
0.232 mi.
1223 ft. **Site 3 of 3 in cluster J**

Relative:
Lower

Actual:
1191 ft.

LUST REG 8:

Name:	PARAGON BUILDING PRODUCTS
Address:	1337 BOWEN ST
City:	UPLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602457T
Local Case Num:	94021
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Overfill
Leak Source:	Other Source
Global ID:	T0607100329
How Stopped Date:	4/14/1994
Enter Date:	6/16/1994
Date Confirmation of Leak Began:	4/24/1994
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/14/1994
Enforcement Date:	Not reported
Close Date:	10/19/1994
Date Prelim Assessment Workplan Submitted:	4/2/1994
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	5/27/1994
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/16/1994
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0948572
Longitude:	-117.6315552
MTBE Date:	Not reported
Max MTBE GW:	Not reported

PARAGON BUILDING PRODUCTS (Continued) **S105032479**

MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	CR2
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

SWEEPS UST:

Name:	PARAGON PRODUCTS
Address:	1337 BOWEN ST
City:	UPLAND
Status:	Not reported
Comp Number:	9380
Number:	Not reported
Board Of Equalization:	44-019818
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-009380-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	3

Name:	PARAGON PRODUCTS
Address:	1337 BOWEN ST
City:	UPLAND
Status:	Not reported
Comp Number:	9380
Number:	Not reported
Board Of Equalization:	44-019818
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-009380-000002
Tank Status:	Not reported
Capacity:	280
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

PARAGON BUILDING PRODUCTS (Continued) **S105032479**

Name:	PARAGON PRODUCTS
Address:	1337 BOWEN ST
City:	UPLAND
Status:	Not reported
Comp Number:	9380
Number:	Not reported
Board Of Equalization:	44-019818
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-009380-000003
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

CORTESE:

Name:	PARAGON BUILDING PRODUCTS
Address:	1337 BOWEN ST
City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100329
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

K45 **EDWARD H PARK MD A MEDICAL CORPORATION** **RCRA NonGen / NLR** **1024872121**
NNW **1330 SAN BERNARDINO RD STE C** **CAL000440768**
1/8-1/4 **UPLAND, CA 91786**
0.241 mi.
1272 ft. **Site 1 of 3 in cluster K**

Relative: **Higher**

Actual: **1265 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-11-15 00:00:00.0
Handler Name:	EDWARD H PARK MD A MEDICAL CORPORATION
Handler Address:	1330 SAN BERNARDINO RD STE C
Handler City,State,Zip:	UPLAND, CA 91786

EDWARD H PARK MD A MEDICAL CORPORATION (Continued) **1024872121**

EPA ID:	CAL000440768
Contact Name:	AUTUMN SZARZYNSKI
Contact Address:	1330 SAN BERNARDINO RD STE C
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-981-8985
Contact Fax:	909-949-4550
Contact Email:	AUTUMNS@FACENBODY.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1330 SAN BERNARDINO RD STE C
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	EDWARD H PARK MD
Owner Type:	Other
Operator Name:	AUTUMN SZARZYNSKI
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
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
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

EDWARD H PARK MD A MEDICAL CORPORATION (Continued) **1024872121**

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:	2018-11-20 16:32:15.0
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:	AUTUMN SZARZYNSKI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1330 SAN BERNARDINO RD STE C
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-981-8985
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EDWARD H PARK MD
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1330 SAN BERNARDINO RD STE C
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-981-8985
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-11-15 00:00:00.0
Handler Name:	EDWARD H PARK MD A MEDICAL CORPORATION
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

EDWARD H PARK MD A MEDICAL CORPORATION (Continued) **1024872121**

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: 621493
NAICS Description: FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

K46 **GREGORY SUELZLE MD A MEDICAL CORP** **RCRA NonGen / NLR** **1025867831**
NNW **1330 SAN BERNARDINO RD STE B** **CAL000336265**
1/8-1/4 **UPLAND, CA 91786**
0.241 mi.
1272 ft. **Site 2 of 3 in cluster K**

Relative: **Higher**
Actual: **1265 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2008-09-12 00:00:00.0
Handler Name: GREGORY SUELZLE MD A MEDICAL CORP
Handler Address: 1330 SAN BERNARDINO RD STE B
Handler City,State,Zip: UPLAND, CA 91786-4980
EPA ID: CAL000336265
Contact Name: GREGORY SUELZLE
Contact Address: 1330 SAN BERNARDINO RD STE B
Contact City,State,Zip: UPLAND, CA 91786
Contact Telephone: 909-981-0608
Contact Fax: 909-982-5327
Contact Email: KJC.88@AOL.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: 1330 SAN BERNARDINO RD STE B
Mailing City,State,Zip: UPLAND, CA 91786-4980
Owner Name: GREGORY SUELZLE MD A MEDICAL CORP
Owner Type: Other
Operator Name: GREGORY SUELZLE
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No

GREGORY SUELZLE MD A MEDICAL CORP (Continued) **1025867831**

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
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:	2019-09-13 17:13:53.0
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:	GREGORY SUELZLE
Legal Status:	Other
Date Became Current:	Not reported

GREGORY SUELZLE MD A MEDICAL CORP (Continued) **1025867831**

Date Ended Current:	Not reported
Owner/Operator Address:	1330 SAN BERNARDINO RD STE B
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-981-0608
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GREGORY SUELZLE MD A MEDICAL CORP
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	10808 GALA AVE
Owner/Operator City,State,Zip:	RANCHO CUCAMONGA, CA 91701-7515
Owner/Operator Telephone:	909-981-0608
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2008-09-12 00:00:00.0
Handler Name:	GREGORY SUELZLE MD A MEDICAL CORP
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	621493
NAICS Description:	FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

K47 **JAMES C HO MD MEDICAL CORP** **RCRA NonGen / NLR** **1026490334**
NNW **1330 SAN BERNARDINO RD STE G** **CAL000455057**
1/8-1/4 **UPLAND, CA 91786**
0.241 mi.
1272 ft. **Site 3 of 3 in cluster K**

Relative: **Higher**
Actual: **1265 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-06-12 00:00:00.0
Handler Name:	JAMES C HO MD MEDICAL CORP
Handler Address:	1330 SAN BERNARDINO RD STE G
Handler City,State,Zip:	UPLAND, CA 91786

JAMES C HO MD MEDICAL CORP (Continued) **1026490334**

EPA ID:	CAL000455057
Contact Name:	ISABEL VALENCIA
Contact Address:	1330 SAN BERNARDINO RD STE G
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-972-0055
Contact Fax:	Not reported
Contact Email:	ISAVAL.07@HOTMAIL.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:	1330 SAN BERNARDINO RD STE G
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	JAMES HO MD
Owner Type:	Other
Operator Name:	ISABEL VALENCIA
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
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

JAMES C HO MD MEDICAL CORP (Continued) **1026490334**

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:	2020-07-10 18:45:27.0
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:	Owner
Owner/Operator Name:	JAMES HO MD
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	500 N BELRIDGE TERRACE
Owner/Operator City,State,Zip:	BREA, CA 92821
Owner/Operator Telephone:	714-290-7089
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ISABEL VALENCIA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1330 SAN BERNARDINO RD STE G
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-972-0055
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-06-12 00:00:00.0
Handler Name:	JAMES C HO MD MEDICAL CORP
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

JAMES C HO MD MEDICAL CORP (Continued) **1026490334**

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: 621493
NAICS Description: FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

48
WNW
1/4-1/2
0.361 mi.
1908 ft.

Relative:
Higher

Actual:
1258 ft.

SAN ANTONIO REGIONAL HOSPITAL
999 SAN BERNARDINO RD
UPLAND, CA 91786

RCRA-LQG **1000102220**
ENVIROSTOR **CAD072514060**
UST
AST
SWEEPS UST
CA FID UST
ICIS
US AIRS
FINDS
EMI
NPDES
CIWQS

RCRA-LQG:
Date Form Received by Agency: 2020-02-28 00:00:00.0
Handler Name: SAN ANTONIO REGIONAL HOSPITAL
Handler Address: 999 SAN BERNARDINO RD
Handler City,State,Zip: UPLAND, CA 91786-0000
EPA ID: CAD072514060
Contact Name: GENE SANTILLI
Contact Address: SAN BERNARDINO RD
Contact City,State,Zip: UPLAND, CA 91786-0000
Contact Telephone: 909-920-0484
Contact Fax: Not reported
Contact Email: GSANTILLI@SARH.ORG
Contact Title: DIRECTOR OF FACILITIES MANAGEMENT
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2019
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: SAN BERNARDINO RD
Mailing City,State,Zip: UPLAND, CA 91786-0000
Owner Name: SAN ANTONIO REGIONAL HOSPITAL
Owner Type: Private

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Operator Name:	SAN ANTONIO REGIONAL HOSPITAL
Operator Type:	Private
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
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:	2020-10-06 14:08:31.0
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

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Biennial: List of Years
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D018
Waste Description: BENZENE

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Handler - Owner Operator:
Owner/Operator Indicator: Owner

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Owner/Operator Name:	SAN ANTONIO REGIONAL HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 SAN BERNARDINO RD
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-920-0486
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	GSANTILLI@SARH.ORG

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAN ANTONIO COMMUNITY HOSPITAL
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAN ANTONIO COMMUNITY HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAN ANTONIO COMMUNITY HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 SAN BERNARDINO RD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-920-4832
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAN ANTONIO REGIONAL HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 SAN BERNARDINO RD
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-920-4846
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Owner/Operator Email:	GSANTILLI@SARH.ORG
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAN ANTONIO REGIONAL HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 SAN BERNARDINO ROAD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-920-4832
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAN ANTONIO COMMUNITY HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 SAN BERNARDINO ROAD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-920-4832
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAN ANTONIO COMMUNITY HOSPITAL
Legal Status:	Private
Date Became Current:	1970-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAN ANTONIO REGIONAL HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAN ANTONIO REGIONAL HOSPITAL
Legal Status:	Private
Date Became Current:	1907-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	999 SAN BERNARDINO RD
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Owner/Operator Telephone: 909-092-0486
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: GSANTILLI@SARH.ORG

Owner/Operator Indicator: Operator
Owner/Operator Name: SAN ANTONIO REGIONAL HOSPITAL
Legal Status: Private
Date Became Current: 1907-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 999 SAN BERNARDINO RD
Owner/Operator City,State,Zip: UPLAND, CA 91786-0000
Owner/Operator Telephone: 909-920-4846
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: GSANTILLI@SARH.ORG

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2010-06-09 00:00:00.0
Handler Name: SAN ANTONIO COMMUNITY HOSPITAL
Federal Waste Generator Description: Large Quantity Generator
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2014-03-01 00:00:00.0
Handler Name: SAN ANTONIO COMMUNITY HOSPITAL
Federal Waste Generator Description: Large Quantity Generator
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-02-05 00:00:00.0

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Handler Name: SAN ANTONIO REGIONAL HOSPITAL
Federal Waste Generator Description: Large Quantity Generator
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-08-02 00:00:00.0
Handler Name: SAN ANTONIO REGIONAL HOSPITAL
Federal Waste Generator Description: Large Quantity Generator
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: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2020-02-28 00:00:00.0
Handler Name: SAN ANTONIO REGIONAL HOSPITAL
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2002-03-25 00:00:00.0
Handler Name: SAN ANTONIO COMMUNITY HOSPITAL
Federal Waste Generator Description: Small Quantity Generator
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1986-10-10 00:00:00.0
Handler Name: SAN ANTONIO COMMUNITY HOSPITAL
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2002-03-25 00:00:00.0
Handler Name: SAN ANTONIO COMMUNITY HOSPITAL
Federal Waste Generator Description: Large Quantity Generator
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 62211
NAICS Description: GENERAL MEDICAL AND SURGICAL HOSPITALS

NAICS Code: 622110
NAICS Description: GENERAL MEDICAL AND SURGICAL HOSPITALS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

ENVIROSTOR:
Name: SAN ANTONIO COMMUNITY HOSPITAL
Address: 999 SAN BERNARDINO ROAD
City,State,Zip: UPLAND, CA 91786
Facility ID: 71002559
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 41
Senate: 25
Special Program: Not reported
Restricted Use: NO

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.10051
Longitude: -117.6381
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD072514060
Alias Type: EPA Identification Number
Alias Name: 110001165818
Alias Type: EPA (FRS #)
Alias Name: 71002559
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

UST:
Name: SAN ANTONIO REGIONAL HOSPITAL
Address: 999 SAN BERNARDINO RD
City,State,Zip: UPLAND, CA 91786
Facility ID: FA0005879
Permitting Agency: San Bernardino County Fire Department
Latitude: 34.100824
Longitude: -117.637747

Name: SAN ANTONIO COMM HOSPITAL
Address: 999 SAN BERNARDINO RD
City,State,Zip: UPLAND, CA 91786
Facility ID: 86011300
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.103351
Longitude: -117.636567

AST:
Name: SAN ANTONIO COMM HOSPITAL
Address: 999 SAN BERNARDINO RD
City/Zip: UPLAND,91786
Certified Unified Program Agencies: Not reported
Owner: SAN ANTONIO REGIONAL HOSPITAL
Total Gallons: Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

CERSID:	10044118
Facility ID:	FA0005879
Business Name:	San Antonio Community Hospital
Phone:	(909) 920-4846
Fax:	(909) 982-5218
Mailing Address:	999 SAN BERNARDINO RD
Mailing Address City:	UPLAND
Mailing Address State:	CA
Mailing Address Zip Code:	91786
Operator Name:	Gene Santilli
Operator Phone:	(909) 920-4846
Owner Phone:	(909) 985-2811
Owner Mail Address:	999 SAN BERNARDINO RD
Owner State:	CA
Owner Zip Code:	91786
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAD072514060

SWEEPS UST:

Name:	SAN ANTONIO COMM HOSPITAL
Address:	999 SAN BERNARDINO AVE
City:	UPLAND
Status:	Active
Comp Number:	11279
Number:	1
Board Of Equalization:	44-020320
Referral Date:	09-11-91
Action Date:	09-11-91
Created Date:	09-23-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-011279-000001
Tank Status:	A
Capacity:	1
Active Date:	09-23-88
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	2

Name:	SAN ANTONIO COMM HOSPITAL
Address:	999 SAN BERNARDINO AVE
City:	UPLAND
Status:	Active
Comp Number:	11279
Number:	1
Board Of Equalization:	44-020320
Referral Date:	09-11-91
Action Date:	09-11-91
Created Date:	09-23-88
Owner Tank Id:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

SWRCB Tank Id: 36-000-011279-000002
Tank Status: A
Capacity: 1
Active Date: 09-23-88
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36003701
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 999 SAN BERNARDINO AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: UPLAND 91786
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

ICIS:
Enforcement Action ID: CASCAA200141473
FRS ID: 110001165818
Action Name: NOV P62049 FOR RULES 218(f)(1)&(2),1110.2(f)(1)(H)(iii),1146(d)(6)(A),1147(c)(3)(C)(i)(I),3002
Facility Name: SAN ANTONIO REGIONAL HOSPITAL
Facility Address: 999 SAN BERNARDINO RD
UPLAND, CA 917864992
Enforcement Action Type: Notice of Violation
Facility County: SAN BERNARDINO
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 8062
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.101111
Longitude in Decimal Degrees: -117.636778
Permit Type Desc: Not reported
Program System Acronym: CASCA00006071CA089
Facility NAICS Code: 622110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA200124097
FRS ID: 110001165818
Action Name: NOV P59273 RULES 1146, 3002
Facility Name: SAN ANTONIO REGIONAL HOSPITAL
Facility Address: 999 SAN BERNARDINO RD

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

	UPLAND, CA 917864992
Enforcement Action Type:	Notice of Violation
Facility County:	SAN BERNARDINO
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	8062
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.101111
Longitude in Decimal Degrees:	-117.636778
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006071CA089
Facility NAICS Code:	622110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006071CA08900031
FRS ID:	110001165818
Action Name:	SAN ANTONIO COMMUNITY HOSPITAL 06071CA08900031
Facility Name:	SAN ANTONIO REGIONAL HOSPITAL
Facility Address:	999 SAN BERNARDINO RD
	UPLAND, CA 917864992
Enforcement Action Type:	Administrative Order
Facility County:	SAN BERNARDINO
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	8062
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.101111
Longitude in Decimal Degrees:	-117.636778
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006071CA089
Facility NAICS Code:	622110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006071CA08900030
FRS ID:	110001165818
Action Name:	SAN ANTONIO COMMUNITY HOSPITAL 06071CA08900030
Facility Name:	SAN ANTONIO REGIONAL HOSPITAL
Facility Address:	999 SAN BERNARDINO RD
	UPLAND, CA 917864992
Enforcement Action Type:	Notice of Violation
Facility County:	SAN BERNARDINO
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	8062
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.101111
Longitude in Decimal Degrees:	-117.636778
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006071CA089
Facility NAICS Code:	622110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006071CA08900011
FRS ID:	110001165818

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Action Name:	SAN ANTONIO COMMUNITY HOSPITAL 06071CA08900011
Facility Name:	SAN ANTONIO REGIONAL HOSPITAL
Facility Address:	999 SAN BERNARDINO RD UPLAND, CA 917864992
Enforcement Action Type:	Administrative Order
Facility County:	SAN BERNARDINO
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	8062
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.101111
Longitude in Decimal Degrees:	-117.636778
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006071CA089
Facility NAICS Code:	622110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006071CA08900010
FRS ID:	110001165818
Action Name:	SAN ANTONIO COMMUNITY HOSPITAL 06071CA08900010
Facility Name:	SAN ANTONIO REGIONAL HOSPITAL
Facility Address:	999 SAN BERNARDINO RD UPLAND, CA 917864992
Enforcement Action Type:	Notice of Violation
Facility County:	SAN BERNARDINO
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	8062
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.101111
Longitude in Decimal Degrees:	-117.636778
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006071CA089
Facility NAICS Code:	622110
Tribal Land Code:	Not reported

US AIRS (AFS):

Envid:	1000102220
Region Code:	09
County Code:	CA071
Programmatic ID:	AIR CASCA00006071CA089
Facility Registry ID:	110001165818
D and B Number:	Not reported
Facility Site Name:	SAN ANTONIO REGIONAL HOSPITAL
Primary SIC Code:	8062
NAICS Code:	622110
Default Air Classification Code:	MAJ
Facility Type of Ownership Code:	POF
Air CMS Category Code:	TVM
HPV Status:	Not reported

US AIRS (AFS):

Region Code:	09
Programmatic ID:	AIR CASCA00006071CA089

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-09-16 16:25:54
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2016-09-16 14:34:51
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2007-01-19 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-09-10 00:00:00
Activity Status Date: 2015-10-01 18:51:47
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-09-10 00:00:00
Activity Status Date: 2015-10-01 19:02:46
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-05-18 00:00:00
Activity Status Date: 2016-09-16 16:25:54
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-09-15 00:00:00
Activity Status Date: 2016-09-16 16:27:24
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-08-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-12-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Date: 2004-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-01-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-04-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-07-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-03-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Date: 2010-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-04-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-08-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-11-30 00:00:00
Activity Status Date: 2006-11-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-06-20 00:00:00
Activity Status Date: 2006-06-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2016-09-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Date: Not reported
Activity Status Date: 2015-06-25 17:09:58
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2016-09-16 14:34:51
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2002-12-19 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2007-01-19 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-04-23 00:00:00
Activity Status Date: 2015-10-01 18:59:59
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-01-30 00:00:00
Activity Status Date: 2015-10-01 18:55:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-17 00:00:00
Activity Status Date: 2015-10-01 18:57:59
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-04-18 00:00:00
Activity Status Date: 2015-10-01 19:01:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-09-10 00:00:00
Activity Status Date: 2015-10-01 18:51:47
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-09-10 00:00:00
Activity Status Date: 2015-10-01 19:02:46
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-03-28 00:00:00
Activity Status Date: 2016-09-16 16:24:32
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-03-29 00:00:00
Activity Status Date: 2016-09-16 16:21:47
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-03-30 00:00:00
Activity Status Date: 2016-09-16 16:23:03
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-09-15 00:00:00
Activity Status Date: 2016-09-16 16:27:24
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-12-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-03-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Date: 2003-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-01-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-03-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-07-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Date: 2009-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-04-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-08-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Activity Date: 2016-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-10-25 00:00:00
Activity Status Date: 2002-10-25 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-11-30 00:00:00
Activity Status Date: 2006-11-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-08-09 00:00:00
Activity Status Date: 2002-08-09 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-06-20 00:00:00
Activity Status Date: 2006-06-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006071CA089
Facility Registry ID: 110001165818

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	Not reported
Activity Status Date:	2015-03-31 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	09
Programmatic ID:	AIR CASCA00006071CA089
Facility Registry ID:	110001165818
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	Not reported
Activity Status Date:	2016-09-15 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

FINDS:
Registry ID: 110001165818

Click Here:

Environmental Interest/Information System:
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
AIR PROGRAM
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
HAZARDOUS AIR POLLUTANT MAJOR
US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.
RCRAInfo is a national information system that supports the Resource

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER
HAZARDOUS WASTE BIENNIAL REPORTER
AIR MAJOR
ELECTRIC GENERATOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

EMI:

Name:	SAN ANTONIO COMMUNITY HOSP
Address:	999 SAN BERNARDINO
City,State,Zip:	UPLAND, CA 91786
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	10
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSP
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	11
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	1995

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	15
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	1996
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	31
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	34
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	1997
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	33
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	17
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSPITAL

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	1998
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	40
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	17
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	1999
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	33
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	17
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2000
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	33
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	17
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO ROAD
City,State,Zip:	UPLAND, CA 91786
Year:	2001
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	49
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	12
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2002
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	55
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2003
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	55
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	6

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

NOX - Oxides of Nitrogen Tons/Yr: 2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: SAN ANTONIO COMMUNITY HOSPITAL
Address: 999 SAN BERNARDINO RD
City,State,Zip: UPLAND, CA 91786
Year: 2004
County Code: 36
Air Basin: SC
Facility ID: 14437
Air District Name: SC
SIC Code: 8062
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 55.4066
Reactive Organic Gases Tons/Yr: 5.89
Carbon Monoxide Emissions Tons/Yr: 5.833
NOX - Oxides of Nitrogen Tons/Yr: 2.074
SOX - Oxides of Sulphur Tons/Yr: 0.06656
Particulate Matter Tons/Yr: 0.0589
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.05

Name: SAN ANTONIO COMMUNITY HOSPITAL
Address: 999 SAN BERNARDINO RD
City,State,Zip: UPLAND, CA 91786
Year: 2005
County Code: 36
Air Basin: SC
Facility ID: 14437
Air District Name: SC
SIC Code: 8062
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 5.133435
Reactive Organic Gases Tons/Yr: .8582748065
Carbon Monoxide Emissions Tons/Yr: 7.9282
NOX - Oxides of Nitrogen Tons/Yr: 2.006
SOX - Oxides of Sulphur Tons/Yr: 3.38133
Particulate Matter Tons/Yr: .0947
Part. Matter 10 Micrometers and Smllr Tons/Yr: .094004

Name: SAN ANTONIO COMMUNITY HOSPITAL
Address: 999 SAN BERNARDINO RD
City,State,Zip: UPLAND, CA 91786
Year: 2006
County Code: 36
Air Basin: SC
Facility ID: 14437
Air District Name: SC
SIC Code: 8062
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Total Organic Hydrocarbon Gases Tons/Yr:	47.69735947894657496
Reactive Organic Gases Tons/Yr:	4.849
Carbon Monoxide Emissions Tons/Yr:	9.095
NOX - Oxides of Nitrogen Tons/Yr:	2.233
SOX - Oxides of Sulphur Tons/Yr:	3.41
Particulate Matter Tons/Yr:	.13
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.13

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2007
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47.69735947894657496
Reactive Organic Gases Tons/Yr:	4.849
Carbon Monoxide Emissions Tons/Yr:	9.095
NOX - Oxides of Nitrogen Tons/Yr:	2.233
SOX - Oxides of Sulphur Tons/Yr:	3.41
Particulate Matter Tons/Yr:	.13
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.13

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2008
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	55.96889088770732317
Reactive Organic Gases Tons/Yr:	5.44368775
Carbon Monoxide Emissions Tons/Yr:	6.61
NOX - Oxides of Nitrogen Tons/Yr:	1.93
SOX - Oxides of Sulphur Tons/Yr:	3.859684
Particulate Matter Tons/Yr:	.2
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.1628

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2009
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	25.517697757810701
Reactive Organic Gases Tons/Yr:	2.7926299999999999
Carbon Monoxide Emissions Tons/Yr:	4.8300000000000001
NOX - Oxides of Nitrogen Tons/Yr:	1.76
SOX - Oxides of Sulphur Tons/Yr:	1.64368
Particulate Matter Tons/Yr:	0.25045400000000001
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.21181127599999999

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2010
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	49.001603039571798
Reactive Organic Gases Tons/Yr:	4.7608300000000003
Carbon Monoxide Emissions Tons/Yr:	6.5224799999999998
NOX - Oxides of Nitrogen Tons/Yr:	2.6326800000000001
SOX - Oxides of Sulphur Tons/Yr:	3.3942299999999999
Particulate Matter Tons/Yr:	0.28441
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.24935953999999999

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2011
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17.498656839
Reactive Organic Gases Tons/Yr:	1.91209
Carbon Monoxide Emissions Tons/Yr:	4.16345
NOX - Oxides of Nitrogen Tons/Yr:	2.2557
SOX - Oxides of Sulphur Tons/Yr:	1.1862
Particulate Matter Tons/Yr:	0.351
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.32772398

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2012
County Code:	36
Air Basin:	SC

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	19.810240111
Reactive Organic Gases Tons/Yr:	2.16036
Carbon Monoxide Emissions Tons/Yr:	6.58084
NOX - Oxides of Nitrogen Tons/Yr:	3.44337
SOX - Oxides of Sulphur Tons/Yr:	1.37714
Particulate Matter Tons/Yr:	0.58855
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.5436239

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2013
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	36.34338451
Reactive Organic Gases Tons/Yr:	3.6092
Carbon Monoxide Emissions Tons/Yr:	5.65059
NOX - Oxides of Nitrogen Tons/Yr:	2.82915
SOX - Oxides of Sulphur Tons/Yr:	2.23038
Particulate Matter Tons/Yr:	0.41448
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.37346596

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2014
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	30.723975967
Reactive Organic Gases Tons/Yr:	3.18282
Carbon Monoxide Emissions Tons/Yr:	30.29334
NOX - Oxides of Nitrogen Tons/Yr:	5.08758
SOX - Oxides of Sulphur Tons/Yr:	0.05291
Particulate Matter Tons/Yr:	3.71204
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3.65937138

Name:	SAN ANTONIO REGIONAL HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Year:	2015
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	31.790725003
Reactive Organic Gases Tons/Yr:	3.45035717
Carbon Monoxide Emissions Tons/Yr:	38.76374708
NOX - Oxides of Nitrogen Tons/Yr:	3.32253092
SOX - Oxides of Sulphur Tons/Yr:	0.066976707
Particulate Matter Tons/Yr:	1.29324276
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.23923812

Name:	SAN ANTONIO REGIONAL HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2016
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	36.099080067
Reactive Organic Gases Tons/Yr:	3.66549
Carbon Monoxide Emissions Tons/Yr:	46.8
NOX - Oxides of Nitrogen Tons/Yr:	3.28
SOX - Oxides of Sulphur Tons/Yr:	0.060988
Particulate Matter Tons/Yr:	1.4920589
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.439932784

Name:	SAN ANTONIO REGIONAL HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2017
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	34.877265257
Reactive Organic Gases Tons/Yr:	3.64308
Carbon Monoxide Emissions Tons/Yr:	57.24
NOX - Oxides of Nitrogen Tons/Yr:	3.27
SOX - Oxides of Sulphur Tons/Yr:	0.0709116
Particulate Matter Tons/Yr:	1.62236
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.57064194

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Name:	SAN ANTONIO REGIONAL HOSPITAL
Address:	999 SAN BERNARDINO RD
City,State,Zip:	UPLAND, CA 91786
Year:	2018
County Code:	36
Air Basin:	SC
Facility ID:	14437
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12.607370925
Reactive Organic Gases Tons/Yr:	1.39426295
Carbon Monoxide Emissions Tons/Yr:	16.6815415
NOX - Oxides of Nitrogen Tons/Yr:	1.8321915
SOX - Oxides of Sulphur Tons/Yr:	0.039188335
Particulate Matter Tons/Yr:	0.815649
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.7570258005

NPDES:

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO ROAD
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	408367
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C385140
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/05/2018
Termination Date Of Regulatory Measure:	10/18/2019
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	999 San Bernardino Road
Discharge Name:	San Antonio Community Hospital
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO ROAD
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	8

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Agency Number:	0
Regulatory Measure ID:	409743
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C359952
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/29/2010
Termination Date Of Regulatory Measure:	01/22/2019
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	999 San Bernardino Road
Discharge Name:	San Antonio Community Hospital
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	409743
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36C359952
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/29/2010
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	San Antonio Community Hospital
Discharge Address:	999 San Bernardino Road
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	409743
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 36C359952
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/29/2010
Processed Date:	11/29/2010
Status:	Active
Status Date:	11/29/2010
Place Size:	29.7
Place Size Unit:	Acres
Contact:	Chris Lipke
Contact Title:	Not reported
Contact Phone:	314-567-9000
Contact Phone Ext:	693
Contact Email:	clipke@hbecorp.com
Operator Name:	San Antonio Community Hospital
Operator Address:	999 San Bernardino Road
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Gene Santilli
Operator Contact Title:	Director of Facilities Health Care Const
Operator Contact Phone:	909-920-4846
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	GSantilli@sach.com
Operator Type:	Other
Developer:	HBE INC
Developer Address:	11330 Olive Street
Developer City:	Saint Louis
Developer State:	California
Developer Zip:	63141
Developer Contact:	Chris Lipike
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	Gene Santilli
Certifier Title:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Certification Date:	29-NOV-10
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO ROAD
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C359952
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	02/13/2019
Operator Name:	San Antonio Community Hospital
Operator Address:	999 San Bernardino Road
Operator City:	Upland
Operator State:	California
Operator Zip:	91786

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	409743
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36C359952
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/29/2010
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	San Antonio Community Hospital
Discharge Address:	999 San Bernardino Road
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Received Date:	Not reported
Processed Date:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	409743
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 36C359952
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/29/2010
Processed Date:	11/29/2010
Status:	Active
Status Date:	11/29/2010
Place Size:	29.7
Place Size Unit:	Acres
Contact:	Chris Lipke
Contact Title:	Not reported
Contact Phone:	314-567-9000
Contact Phone Ext:	693
Contact Email:	clipke@hbecorp.com
Operator Name:	San Antonio Community Hospital
Operator Address:	999 San Bernardino Road
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Gene Santilli
Operator Contact Title:	Director of Facilities Health Care Const
Operator Contact Phone:	909-920-4846
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	GSantilli@sach.com
Operator Type:	Other
Developer:	HBE INC
Developer Address:	11330 Olive Street
Developer City:	Saint Louis
Developer State:	California
Developer Zip:	63141
Developer Contact:	Chris Lipike
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	Gene Santilli
Certifier Title:	Not reported
Certification Date:	29-NOV-10
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO ROAD
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36C385140
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/31/2019
Operator Name:	San Antonio Community Hospital
Operator Address:	999 San Bernardino Road
Operator City:	Upland
Operator State:	California
Operator Zip:	91786

CIWQS:

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO ROAD
City,State,Zip:	UPLAND, CA 91786
Agency:	San Antonio Community Hospital
Agency Address:	999 San Bernardino Road, Upland, CA 91786
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8

SAN ANTONIO REGIONAL HOSPITAL (Continued) **1000102220**

Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C359952
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	11/29/2010
Termination Date:	01/22/2019
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	2
Violations within 5 years:	2
Latitude:	34.10191
Longitude:	-117.63772

Name:	SAN ANTONIO COMMUNITY HOSPITAL
Address:	999 SAN BERNARDINO ROAD
City,State,Zip:	UPLAND, CA 91786
Agency:	San Antonio Community Hospital
Agency Address:	999 San Bernardino Road, Upland, CA 91786
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C385140
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	11/05/2018
Termination Date:	10/18/2019
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	34.1025
Longitude:	-117.63632

---

49 **INLAND CONTAINER CORPORATION** **CPS-SLIC** **S108542989**
SSE **N/A** **CERS** **N/A**
1/4-1/2 **ONTARIO, CA**
0.419 mi.
2214 ft.

Relative:
Lower

Actual:
1168 ft.

SLIC REG 8:

Name:	INLAND CONTAINER CORPORATION
Address:	N/A
City:	ONTARIO
Type:	Soil
Facility Status:	Closed

INLAND CONTAINER CORPORATION (Continued) **S108542989**

Staff: Kamron Saremi, Tel 909-782-4303, SLIC
Substance: UNKNOWN
Lead Agency: Regional Board
Location Code: Not reported
Thomas Bros Code: Not reported

CERS:
Name: INLAND CONTAINER CORPORATION
Address: N/A
City,State,Zip: ONTARIO, CA
Site ID: 252798
CERS ID: SLT8R1404165
CERS Description: Cleanup Program Site

---

50 SW 1/4-1/2 0.443 mi. 2340 ft. **WESTERN MOLDINGS, INC.** **ENVIROSTOR** **S101481928**
1111 EAST 8TH STREET **N/A**
UPLAND, CA 91786

Relative: Lower

Actual: 1187 ft.

ENVIROSTOR:
Name: WESTERN MOLDINGS, INC.
Address: 1111 EAST 8TH STREET
City,State,Zip: UPLAND, CA 91786
Facility ID: 36340063
Status: Active
Status Date: 09/17/2008
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 5.4
NPL: NO
Regulatory Agencies: SAN BERNARDINO COUNTY
Lead Agency: SAN BERNARDINO COUNTY
Program Manager: Eileen Mananian
Supervisor: Eileen Mananian
Division Branch: Cleanup Cypress
Assembly: 41
Senate: 25
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.09277
Longitude: -117.6366
APN: 104652116
Past Use: MANUFACTURING - METAL
Potential COC: * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: WESTERN MOLDINGS, INC.
Alias Type: Alternate Name
Alias Name: 104652116
Alias Type: APN
Alias Name: 36340063

WESTERN MOLDINGS, INC. (Continued) **S101481928**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/24/1995
Comments: Site was identified from a letter from the RP regarding a non-emergency release at their old site. RP has not submit- ted the Non-emergency Hazardous Substance Release form, but a follow-up letter requesting the necessary information. Due to the evidence of a release of comtamination, a PEA will be required, and on 1-24-95, the RP was thus notified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/16/2002
Comments: Site Screening Completed

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

---

51 **UPLAND THRALL HALL USAR** **ENVIROSTOR** **S103393802**
SSE **1284 E. SEVENTH STREET** **N/A**
1/2-1 **UPLAND, CA 91764**
0.618 mi.
3265 ft.

Relative:
Lower

Actual:
1144 ft.

ENVIROSTOR:
Name: UPLAND THRALL HALL USAR
Address: 1284 E. SEVENTH STREET
City,State,Zip: UPLAND, CA 91764
Facility ID: 36970010
Status: No Further Action
Status Date: 12/10/2018
Site Code: 400688
Site Type: Military Evaluation
Site Type Detailed: Open Base
Acres: 0
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Patrick Hsieh
Division Branch: Cleanup Cypress
Assembly: 41
Senate: 25
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED

UPLAND THRALL HALL USAR (Continued) **S103393802**

Funding: DERA
Latitude: 34.08791
Longitude: -117.6338
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: USARC UPLAND
Alias Type: Alternate Name
Alias Name: 400688
Alias Type: Project Code (Site Code)
Alias Name: 36970010
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/15/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 02/08/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Delisting Document
Completed Date: 05/07/2001
Comments: DLIST - SITE 1 (TRANSFORMER): The purpose of the decision document is to present the selected action for the Site 1 - transformer in accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). It has been determined that the selected remedy of No Further Action (NFA) is protective of human health and the environment. The decision document describes the selected action based on the results of the Preliminary Assessment (PA) and other subsequent investigations conducted under the Installation Restoration Program (IRP). DTSC concurred with the decision document's NFA recommendation in a letter dated April 2, 2001. DTSC's agreement to remove this site from the IRP list does not represent certification or validation that the entire facility does not have any hazardous substance releases. Should DTSC become aware of potential hazardous substance releases, it will initiate appropriate action to correct the problem.

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

52
SSW
1/2-1
0.705 mi.
3721 ft.

Relative:
Lower

Actual:
1153 ft.

REBEL BRANDS INC
420 S 11TH AVE
UPLAND, CA 91786

Database(s): ENVIROSTOR, LUST, VCP, CERS HAZ WASTE, HIST UST, Cortese, EMI, NPDES, San Bern. Co. Permit, CERS

EDR ID Number: U001569531
EPA ID Number: N/A

ENVIROSTOR:

Name:	SOUTH 11TH AVENUE PROPERTY
Address:	420 S. 11TH AVENUE
City,State,Zip:	UPLAND, CA 91786
Facility ID:	60002930
Status:	Active
Status Date:	01/17/2020
Site Code:	401908
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	7.05
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Aslam Shareef
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	, 41
Senate:	, 25
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.08851
Longitude:	-117.6356
APN:	1047-181-07, 1047-181-08
Past Use:	PAINT MANUFACTURING
Potential COC:	Lead Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Lead Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	SOIL, SV
Alias Name:	1047-181-07
Alias Type:	APN
Alias Name:	1047-181-08
Alias Type:	APN
Alias Name:	401908
Alias Type:	Project Code (Site Code)
Alias Name:	60002930
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	01/21/2020
Comments:	SVA Application processed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report

REBEL BRANDS INC (Continued) **U001569531**

Completed Date: 07/22/2020
Comments: On July 22, 2020, a Scoping Meeting (via conference call) was conducted. DTSC understands the next step is that the Proponent will contact DTSC with a plan to proceed regarding DTSC s preliminary list of data gaps/notes and a site visit, if appropriate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 05/28/2020
Comments: In a letter, dated May 28, 2020, DTSC transmitted the Standard Voluntary Agreement (SVA), fully executed on May 28, 2020, to the Proponent. The purpose of the SVA is for the Proponent to investigate, remediate, and/or evaluate a release, a threatened release, or a potential release of any hazardous substance at or from the Site under the oversight of DTSC. The standard advance deposit requirement was waived per BF coordinator, $5,000 advance payment was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/01/2020
Comments: In a letter, dated October 1, 2020, DTSC transmitted the annual cost estimate for regulatory oversight pertaining to fiscal year 2020 - 2021.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/08/2020
Comments: In a letter, dated October 8, 2020, DTSC determined that further action at the Site is necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/08/2020
Comments: In a letter, dated October 8, 2020, DTSC provided notification of a change in the DTSC Project Manager.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2021
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

LUST:
Name: PACTRA COATINGS
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Type: LUST Cleanup Site

REBEL BRANDS INC (Continued) **U001569531**

Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100174
Global Id:	T0607100174
Latitude:	34.088228
Longitude:	-117.635823
Status:	Completed - Case Closed
Status Date:	07/26/1994
Case Worker:	CAB
RB Case Number:	083601462T
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	92001
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

LUST:

Global Id:	T0607100174
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	carl.bernhardt@waterboards.ca.gov
Phone Number:	9517824495

LUST:

Global Id:	T0607100174
Action Type:	Other
Date:	02/01/1990
Action:	Leak Discovery
Global Id:	T0607100174
Action Type:	Other
Date:	03/30/1990
Action:	Leak Reported
Global Id:	T0607100174
Action Type:	ENFORCEMENT
Date:	07/24/1994
Action:	Closure/No Further Action Letter

LUST:

Global Id:	T0607100174
Status:	Open - Case Begin Date
Status Date:	02/01/1990
Global Id:	T0607100174
Status:	Open - Site Assessment
Status Date:	04/06/1990
Global Id:	T0607100174
Status:	Open - Site Assessment
Status Date:	05/13/1990
Global Id:	T0607100174
Status:	Open - Remediation
Status Date:	09/07/1990

REBEL BRANDS INC (Continued) **U001569531**

Global Id: T0607100174
Status: Open - Remediation
Status Date: 03/08/1991

Global Id: T0607100174
Status: Completed - Case Closed
Status Date: 07/26/1994

VCP:
Name: SOUTH 11TH AVENUE PROPERTY
Address: 420 S. 11TH AVENUE
City,State,Zip: UPLAND, CA 91786
Facility ID: 60002930
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7.05
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Aslam Shareef
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 401908
Assembly: , 41
Senate: , 25
Special Programs Code: Voluntary Cleanup Program
Status: Active
Status Date: 01/17/2020
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 34.08851 / -117.6356
APN: 1047-181-07, 1047-181-08
Past Use: PAINT MANUFACTURING
Potential COC: 30013, 30022, 30027
Confirmed COC: 30013,30022,30027
Potential Description: SOIL, SV
Alias Name: 1047-181-07
Alias Type: APN
Alias Name: 1047-181-08
Alias Type: APN
Alias Name: 401908
Alias Type: Project Code (Site Code)
Alias Name: 60002930
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 01/21/2020
Comments: SVA Application processed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

REBEL BRANDS INC (Continued) **U001569531**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/22/2020
Comments: On July 22, 2020, a Scoping Meeting (via conference call) was conducted. DTSC understands the next step is that the Proponent will contact DTSC with a plan to proceed regarding DTSC s preliminary list of data gaps/notes and a site visit, if appropriate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 05/28/2020
Comments: In a letter, dated May 28, 2020, DTSC transmitted the Standard Voluntary Agreement (SVA), fully executed on May 28, 2020, to the Proponent. The purpose of the SVA is for the Proponent to investigate, remediate, and/or evaluate a release, a threatened release, or a potential release of any hazardous substance at or from the Site under the oversight of DTSC. The standard advance deposit requirement was waived per BF coordinator, $5,000 advance payment was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/01/2020
Comments: In a letter, dated October 1, 2020, DTSC transmitted the annual cost estimate for regulatory oversight pertaining to fiscal year 2020 - 2021.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/08/2020
Comments: In a letter, dated October 8, 2020, DTSC determined that further action at the Site is necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/08/2020
Comments: In a letter, dated October 8, 2020, DTSC provided notification of a change in the DTSC Project Manager.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2021
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: SQL TRANSPORTATION, INC.
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786-1150
Site ID: 382588

REBEL BRANDS INC (Continued) **U001569531**

CERS ID: 10035199
CERS Description: Hazardous Waste Generator

HIST UST:
Name: PACTRA COATINGS INC
Address: 420 S 11TH AVENUE
City,State,Zip: UPLAND, CA 91736
File Number: 0002A42D
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A42D.pdf
Region: STATE
Facility ID: 00000029756
Facility Type: Other
Other Type: PACKAGING
Contact Name: DON CLUTTER
Telephone: 7149463871
Owner Name: PLASTI-KOTE COMPANY, INC.
Owner Address: 1000 LAKE ROAD
Owner City,St,Zip: MEDINA, OH 44256
Total Tanks: 0009

Tank Num: 001
Container Num: 4
Year Installed: 1977
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 5
Year Installed: 1977
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 6
Year Installed: 1977
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 7
Year Installed: 1977
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 005

REBEL BRANDS INC (Continued) **U001569531**

Container Num:	8
Year Installed:	1962
Tank Capacity:	00002500
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	006
Container Num:	11
Year Installed:	1962
Tank Capacity:	00002500
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	007
Container Num:	12
Year Installed:	1962
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	008
Container Num:	13
Year Installed:	1962
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	009
Container Num:	14
Year Installed:	1962
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

CORTESE:

Name:	PACTRA COATINGS
Address:	420 S 11TH AVE
City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100174
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported

REBEL BRANDS INC (Continued) **U001569531**

Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

Name:	PACTRA COATINGS INC
Address:	420 S 11TH AV
City,State,Zip:	UPLAND, CA 91736
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	41145
Air District Name:	SC
SIC Code:	3479
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	24
Reactive Organic Gases Tons/Yr:	20
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	PACTRA COATINGS INC
Address:	420 S 11TH AV
City,State,Zip:	UPLAND, CA 91736
Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	41145
Air District Name:	SC
SIC Code:	3479
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

REBEL BRANDS INC (Continued) **U001569531**

NPDES:

Name:	REBEL BRANDS INC
Address:	420 S 11TH AVE
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	425649
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I023579
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/29/2012
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	420 S 11th Ave
Discharge Name:	Rebel Brands Inc
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	425649
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I023579
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/29/2012
Processed Date:	03/29/2012
Status:	Active
Status Date:	06/16/2014
Place Size:	25000
Place Size Unit:	SqFt

REBEL BRANDS INC (Continued) **U001569531**

Contact:	Loren Miles
Contact Title:	CEO
Contact Phone:	909-985-8880
Contact Phone Ext:	Not reported
Contact Email:	lmiles@healthandbeautyusa.com
Operator Name:	Rebel Brands Inc
Operator Address:	420 S 11th Ave
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Loren Miles
Operator Contact Title:	Not reported
Operator Contact Phone:	909-985-8880
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lmiles@healthandbeautyusa.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	West Cucamonga Channel
Certifier:	Loren Miles
Certifier Title:	CEO
Certification Date:	18-JUN-15
Primary Sic:	2899-Chemicals and Chemical Preparations, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	425649
Order Number:	97-03-DWQ

REBEL BRANDS INC (Continued) **U001569531**

Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I023579
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/29/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Rebel Brands Inc
Discharge Address:	420 S 11th Ave
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported

REBEL BRANDS INC (Continued) **U001569531**

Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	REBEL BRANDS INC
Address:	420 S 11TH AVE
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I023579
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	06/16/2014
Operator Name:	Rebel Brands Inc
Operator Address:	420 S 11th Ave
Operator City:	Upland
Operator State:	California
Operator Zip:	91786

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	425649
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I023579
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

REBEL BRANDS INC (Continued) **U001569531**

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	03/29/2012
Processed Date:	03/29/2012
Status:	Active
Status Date:	06/16/2014
Place Size:	25000
Place Size Unit:	SqFt
Contact:	Loren Miles
Contact Title:	CEO
Contact Phone:	909-985-8880
Contact Phone Ext:	Not reported
Contact Email:	lmiles@healthandbeautyusa.com
Operator Name:	Rebel Brands Inc
Operator Address:	420 S 11th Ave
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Loren Miles
Operator Contact Title:	Not reported
Operator Contact Phone:	909-985-8880
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lmiles@healthandbeautyusa.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	West Cucamonga Channel
Certifier:	Loren Miles

REBEL BRANDS INC (Continued) **U001569531**

Certifier Title:	CEO
Certification Date:	18-JUN-15
Primary Sic:	2899-Chemicals and Chemical Preparations, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	425649
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I023579
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/29/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Rebel Brands Inc
Discharge Address:	420 S 11th Ave
Discharge City:	Upland
Discharge State:	California
Discharge Zip:	91786
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported

REBEL BRANDS INC (Continued) **U001569531**

Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	PAL LOGISTIC, INC.
Address:	420 S 11TH AVE # D
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0018274
Owner:	SHUAI QU
Permit Number:	PT0039502
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	05/31/2021

Name:	GABYAK CORP
Address:	420 S 11TH AVE UNIT F
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0018267
Owner:	GABYAK, MIKHAIL
Permit Number:	PT0039492
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	05/31/2021

Name:	SQL TRANSPORTATION, INC.
Address:	420 S 11TH AVE
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0016561
Owner:	SQL Transportation, Inc.
Permit Number:	PT0035664
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS

REBEL BRANDS INC (Continued) **U001569531**

Facility Status: ACTIVE
Expiration Date: 01/31/2021

Name: SQL TRANSPORTATION, INC.
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0016561
Owner: SQL Transportation, Inc.
Permit Number: PT0035663
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 01/31/2021

Name: ZEN PRO INC/ PRO CIRCLE INC.
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0016562
Owner: SINGH, HARRY
Permit Number: PT0035665
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 01/31/2017

Name: ZEN PRO INC/ PRO CIRCLE INC.
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0016562
Owner: SINGH, HARRY
Permit Number: PT0035666
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 01/31/2017

Name: REBEL BRANDS, INC
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000869
Owner: HEG TRUST
Permit Number: PT0016985
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2014

Name: REBEL BRANDS, INC
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000869
Owner: HEG TRUST
Permit Number: PT0005458
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 09/30/2014

REBEL BRANDS INC (Continued) **U001569531**

Name: FOUR STAR CHEMICAL
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91785
Region: SAN BERNARDINO
Facility ID: FA0014991
Owner: FOUR STAR CHEMICAL
Permit Number: PT0026091
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 03/31/2014

Name: REBEL BRANDS, INC
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000869
Owner: HEG TRUST
Permit Number: PT0005461
Permit Category: CALARP FACILITY PERMIT
Facility Status: INACTIVE
Expiration Date: 09/30/2013

Name: REBEL BRANDS, INC
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000869
Owner: HEG TRUST
Permit Number: PT0005459
Permit Category: HAZARDOUS WASTE GENERATOR - 11-25 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2013

Name: REBEL BRANDS, INC
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000869
Owner: HEG TRUST
Permit Number: PT0017109
Permit Category: RMP INSPECTION - PROGRAM 3
Facility Status: INACTIVE
Expiration Date: 09/30/2013

CERS:
Name: ALTAWOOD INC
Address: 420 S. 11TH AVE.
City,State,Zip: UPLAND, CA 91786
Site ID: 450731
CERS ID: 110000478377
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: LOREN MILES
Entity Title: AGENT
Affiliation Address: 420 S 11TH AVESTE A

REBEL BRANDS INC (Continued) **U001569531**

Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Public Contact
Entity Name:	JEFF BAERENWALD
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
Name:	REBEL BRANDS INC
Address:	420 S 11TH AVE
City,State,Zip:	UPLAND, CA 91786
Site ID:	540484
CERS ID:	815940
CERS Description:	Industrial Facility Storm Water

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-29-2014
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	Facility is a satellite distribution facility. Third party trucking companies come in, receive packaged shipment for distribution, and depart. No manufacturing activities on site. The site has no storage outside, beside empty 55-gal containers, used as buffered space for the trailer storage. No vehicle washing on site. However, one observed truck was under total engine mechanical overhaul by a third party, and not the business owner. The business owner depended on the property manager to take care of permitting needs. Permit was requested by Frog's Environmental to obtain permit exemption request. However, with maintenance on site, I denied the request.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Rebel Brands Inc
Entity Title:	Operator
Affiliation Address:	420 S 11th Ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Name:	PAL LOGISTIC, INC
Address:	420 S 11TH AVE STE D

REBEL BRANDS INC (Continued) **U001569531**

City,State,Zip: UPLAND, CA 91786
Site ID: 519243
CERS ID: 10785070
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 519243
Site Name: PAL LOGISTIC, INC
Violation Date: 05-21-2019
Citation: Un-Specified
Violation Description: Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes: Returned to compliance on 09/06/2019. OBSERVATION: At time of inspection, CUPA permits have not been obtained with this Division. CORRECTIVE ACTION: Pay all applicable permit fees upon receipt of invoice.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-21-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: shuai QU
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: Identification Signer
Entity Name: SHUAI QU
Entity Title: CEO
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: PAL LOGISTIC,INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

REBEL BRANDS INC (Continued) **U001569531**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(626) 510-5892
Affiliation Type Desc:	Environmental Contact
Entity Name:	JIMMY HAN
Entity Title:	Not reported
Affiliation Address:	420 S 11th Ave Ste D
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	420 S 11TH AVE, #D
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Legal Owner
Entity Name:	SHUAI QU
Entity Title:	Not reported
Affiliation Address:	420 S 11TH AVE #D
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(626) 510-5892
Affiliation Type Desc:	Parent Corporation
Entity Name:	PAL LOGISTIC, 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:	Property Owner
Entity Name:	shuai QU
Entity Title:	Not reported

REBEL BRANDS INC (Continued) **U001569531**

Affiliation Address: 420 S 11th Ave Ste D
Affiliation City: Upland
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786
Affiliation Phone: (626) 510-5892

Name: PACTRA COATINGS
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 255572
CERS ID: T0607100174
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824495

Name: SQL TRANSPORTATION, INC.
Address: 420 S 11TH AVE
City,State,Zip: UPLAND, CA 91786-1150
Site ID: 382588
CERS ID: 10035199
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 382588
Site Name: SQL Transportation, Inc.
Violation Date: 01-13-2016
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 09/07/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 382588
Site Name: SQL Transportation, Inc.
Violation Date: 01-13-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/31/2016. Failure to obtain a CUPA Hazardous Materials Handler permit (SBCC 23.0602(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP

REBEL BRANDS INC (Continued) **U001569531**

Violation Source:	CERS
Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-14-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	OBSERVATION: At time of inspection, (1) 275 gal container of used oil was missing the contents information along with the accumulation start date on the hazardous waste label. CORRECTIVE ACTION: Properly label all hazardous waste containers.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-13-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/31/2016. Failure to obtain a CUPA Hazardous Waste Generator Permit (SBCC 23.0602(b)(1))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-14-2019
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	OBSERVATION: At time of inspection (2) 55 gal drums of drained used oil filters were missing the accumulation start date. CORRECTIVE ACTION: Properly label all filter containers.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-13-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 09/07/2017. Failure to establish a Contingency Plan (CCR 66265.51(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

REBEL BRANDS INC (Continued) **U001569531**

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	04-02-2008
Citation:	HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description:	RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes:	Not reported
Violation Division:	San Bernardino County Fire Department
Violation Program:	HWRecycler
Violation Source:	CERS

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-13-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 09/06/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-14-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 04/19/2019. OBSERVATION: The last complete Business Plan was submitted to CERS on 9/27/17. An incomplete Business Plan was submitted to CERS on 2/14/18. CORRECTIVE ACTION: Review and certify the business plan annually.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-13-2016
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/07/2017.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Violation Date:	01-14-2019
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5,

REBEL BRANDS INC (Continued) **U001569531**

Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes: OBSERVATION: At time of inspection, 3 years worth of manifests were not made available for review. Only the most recent manifest documenting a 11/21/18 pickup was made available for review. CORRECTIVE ACTION: Submit 3 years worth of hazardous waste manifests to this office for review. Keep 3 years worth of manifests readily available for review.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 382588
Site Name: SQL Transportation, Inc.
Violation Date: 04-02-2008
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Not reported
Violation Division: San Bernardino County Fire Department
Violation Program: HWLQG
Violation Source: CERS

Site ID: 382588
Site Name: SQL Transportation, Inc.
Violation Date: 04-02-2008
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Not reported
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-02-2008
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector Name: sb134
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

REBEL BRANDS INC (Continued) **U001569531**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-02-2008
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: sb134
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-02-2008
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: sb134
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-02-2008
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: sb134
Eval Division:	San Bernardino County Fire Department
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-02-2008
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: sb134
Eval Division:	San Bernardino County Fire Department
Eval Program:	HWRecycler
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2013
Violations Found:	No

REBEL BRANDS INC (Continued) **U001569531**

Eval Type:	Routine done by local agency
Eval Notes:	ATTEMPT ASSIGNED CLOSURE INSPECTION - FACILITY NOT CLOSED - REFERRED TO BECHEL
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ATTEMPT ASSIGNED CLOSURE INSPECTION - FACILITY NOT CLOSED - REFERRED TO BECHEL
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-01-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	REBEL BRANDS CLOSURE
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-01-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	REBEL BRANDS CLOSURE
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-13-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-13-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency

REBEL BRANDS INC (Continued) **U001569531**

Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HWRecycler

REBEL BRANDS INC (Continued) **U001569531**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - BP
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - HW
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - WASTE RECYCLER
Eval Division: San Bernardino County Fire Department
Eval Program: HWRecycler
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

REBEL BRANDS INC (Continued) **U001569531**

Enforcement Action:

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Site Address:	420 S 11TH AVE
Site City:	UPLAND
Site Zip:	91786-1150
Enf Action Date:	01-13-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Site Address:	420 S 11TH AVE
Site City:	UPLAND
Site Zip:	91786-1150
Enf Action Date:	01-13-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Site ID:	382588
Site Name:	SQL Transportation, Inc.
Site Address:	420 S 11TH AVE
Site City:	UPLAND
Site Zip:	91786-1150
Enf Action Date:	08-10-2017
Enf Action Type:	AEO - Unified Program
Enf Action Description:	Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes:	Fines/Penalties Assessed: $500.00. FACILITY FAILED TO ELECTRONICALLY SUBMIT / UPDATE BUSINESS PLAN INFORMATION ANNUALLY USING THE STATEWIDE INFORMATION MANAGEMENT SYSTEM.
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Shuwan Wang
Entity Title:	Shuwan Wang
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:	Legal Owner
Entity Name:	SQL Transportation, Inc.
Entity Title:	Not reported

REBEL BRANDS INC (Continued) **U001569531**

Affiliation Address:	420 S. 11th Ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 985-7600
Affiliation Type Desc:	Document Preparer
Entity Name:	Teresa Doyle
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:	Environmental Contact
Entity Name:	Shuwan Wang
Entity Title:	Not reported
Affiliation Address:	420 S. 11th ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91785
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	420 S. 11th ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	SQL Transportation
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:	(909) 985-7600

REBEL BRANDS INC (Continued) **U001569531**

Affiliation Type Desc:	Parent Corporation
Entity Name:	SQL Transportation, 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

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53 **NEW MIDDLE SCHOOL NO. 35** **ENVIROSTOR** **S105754272**
SSE **SIXTH STREET/AMADOR AVENUE** **SCH** **N/A**
1/2-1 **ONTARIO, CA 91764**
0.880 mi.
4644 ft.

Relative:
Lower

Actual:
1117 ft.

ENVIROSTOR:

Name:	NEW MIDDLE SCHOOL NO. 35
Address:	SIXTH STREET/AMADOR AVENUE
City,State,Zip:	ONTARIO, CA 91764
Facility ID:	36070009
Status:	No Further Action
Status Date:	12/23/2002
Site Code:	404410
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	13
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	52
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.08508
Longitude:	-117.6279
APN:	NONE SPECIFIED
Past Use:	* AGRICULTURAL SERVICES
Potential COC:	Barium and compounds Zinc Chlordane Endrin DDT Heptachlor epoxide Endosulfan DDE DDD Dieldrin
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV
Alias Name:	NEW MIDDLE SCHOOL NO. 35
Alias Type:	Alternate Name
Alias Name:	ONTARIO MONTCLAIR SD-PROPOSED NEW MS #35
Alias Type:	Alternate Name
Alias Name:	ONTARIO-MONTCLAIR SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	404410
Alias Type:	Project Code (Site Code)
Alias Name:	36070009
Alias Type:	Envirostor ID Number

NEW MIDDLE SCHOOL NO. 35 (Continued) **S105754272**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/23/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	12/06/2004
Comments:	accepted
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	03/11/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	10/24/2002
Comments:	Focused Phase I Site Assessment
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	11/06/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/06/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	12/23/2002
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	NEW MIDDLE SCHOOL NO. 35

NEW MIDDLE SCHOOL NO. 35 (Continued) **S105754272**

Address:	SIXTH STREET/AMADOR AVENUE
City,State,Zip:	ONTARIO, CA 91764
Facility ID:	36070009
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	13
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404410
Assembly:	52
Senate:	20
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	12/23/2002
Restricted Use:	NO
Funding:	School District
Latitude:	34.08508
Longitude:	-117.6279
APN:	NONE SPECIFIED
Past Use:	* AGRICULTURAL SERVICES
Potential COC:	Barium and compounds, Barium and compounds, Zinc, Chlordane, Endrin, DDT, Heptachlor epoxide, Endosulfan, DDE, DDD, Dieldrin
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV
Alias Name:	NEW MIDDLE SCHOOL NO. 35
Alias Type:	Alternate Name
Alias Name:	ONTARIO MONTCLAIR SD-PROPOSED NEW MS #35
Alias Type:	Alternate Name
Alias Name:	ONTARIO-MONTCLAIR SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	404410
Alias Type:	Project Code (Site Code)
Alias Name:	36070009
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/23/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	12/06/2004
Comments:	accepted
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	03/11/2003

NEW MIDDLE SCHOOL NO. 35 (Continued) **S105754272**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/24/2002
Comments: Focused Phase I Site Assessment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 11/06/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/06/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/23/2002
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

Count: 8 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ONTARIO	S108985930	CALIF. AIR NATIONAL GUARD	N/A ONT. INTL. AIRPORT		CPS-SLIC
ONTARIO	S108985929	G E ENGINE SERVICE	N/A ONT. INTL. AIRPORT		CPS-SLIC
ONTARIO	S108543038	NORTHROP (O)	N/A ONT. INTL. AIRPORT		CPS-SLIC
ONTARIO	S108543020	LOCKHEED (O)	N/A ONT. INTL. AIRPORT		CPS-SLIC
ONTARIO	S108542946	DOUGLAS AIRCRAFT CO	N/A ONT. INTL. AIRPORT		CPS-SLIC
UPLAND	S106166895	UPLAND LAUNDRY & CLEANERS	271 E 9TH ST	91786	DRYCLEANERS, EMI, HWTS
UPLAND	1007443891	CITY OF UPLAND SANITARY LANDFILL S	BETWEEN 14TH AND 15TH STREETS		ODI
UPLAND	S108985943	ATSF RIGHT-OF-WAY	N/A FMR. ATFS UPLAND STA		CPS-SLIC

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
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/30/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

Federal 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
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/23/2021
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
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
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
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
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
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
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
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
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
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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
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: see region list
Last EDR Contact: 03/09/2021
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
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN 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
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: 404-562-8677
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN 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
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
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

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

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.

Date of Government Version: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

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 Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 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

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/09/2021
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
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/22/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/24/2020
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: 05/03/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 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: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/03/2021
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
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/24/2021
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
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
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 Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
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
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: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
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
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/17/2021
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
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/16/2021
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
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2021
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.

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: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 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

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/09/2021
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
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2021
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/16/2021
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
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/05/2021
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
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/02/2021
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
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/25/2021
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
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/28/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/18/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

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

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
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/06/2021
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
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

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

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
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2021
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
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/09/2021
Number of Days to Update: 82
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/23/2021
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
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/12/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 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

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 SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/09/2021
Number of Days to Update: 79

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 82

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

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: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/07/2021
Number of Days to Update: 79

Source: Department of Toxic Subsances 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

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

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: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/09/2021
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
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/04/2021
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/09/2021
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
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/03/2021
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
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/09/2021
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
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/12/2021
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
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/09/2021
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
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

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

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 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:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 80

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2020
Date Data Arrived at EDR: 11/19/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 77

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 72

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 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

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/16/2021
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
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/26/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2021
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
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/14/2021
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
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 77

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/16/2021
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
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/25/2021
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
Date Data Arrived at EDR: 12/21/2020
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021
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.

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/02/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/01/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/16/2021
Number of Days to Update: 77

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/20/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/05/2021
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 12/03/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2021
Date Data Arrived at EDR: 01/06/2021
Date Made Active in Reports: 03/18/2021
Number of Days to Update: 71

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/21/2021
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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: 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: 12/28/2020
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/22/2021
Number of Days to Update: 83

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: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

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:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 12

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/26/2021
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
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 02/03/2021
Number of Days to Update: 6

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/24/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2021
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
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

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

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

1400 EAST ARROW HIGHWAY
1400 EAST ARROW HIGHWAY
UPLAND, CA 91786

TARGET PROPERTY COORDINATES

Latitude (North):	34.098573 - 34° 5' 54.86''
Longitude (West):	117.631375 - 117° 37' 52.95''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	441759.6
UTM Y (Meters):	3773070.8
Elevation:	1225 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5619074 ONTARIO, CA
Version Date:	2012
Southeast Map:	5620426 GUASTI, 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).

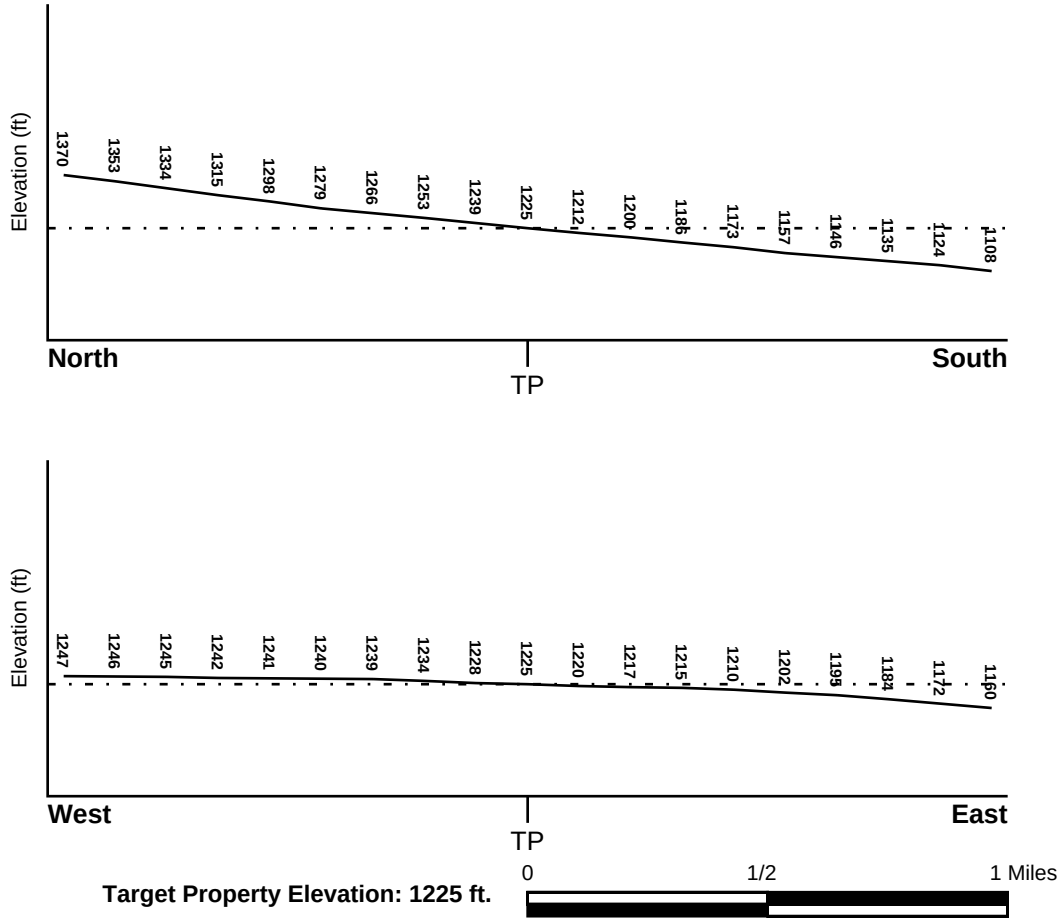
TOPOGRAPHIC INFORMATION

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 SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1750F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8607H	FEMA FIRM Flood data
06071C8630J	FEMA FIRM Flood data
06071C8609J	FEMA FIRM Flood data
06071C8628J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
ONTARIO	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

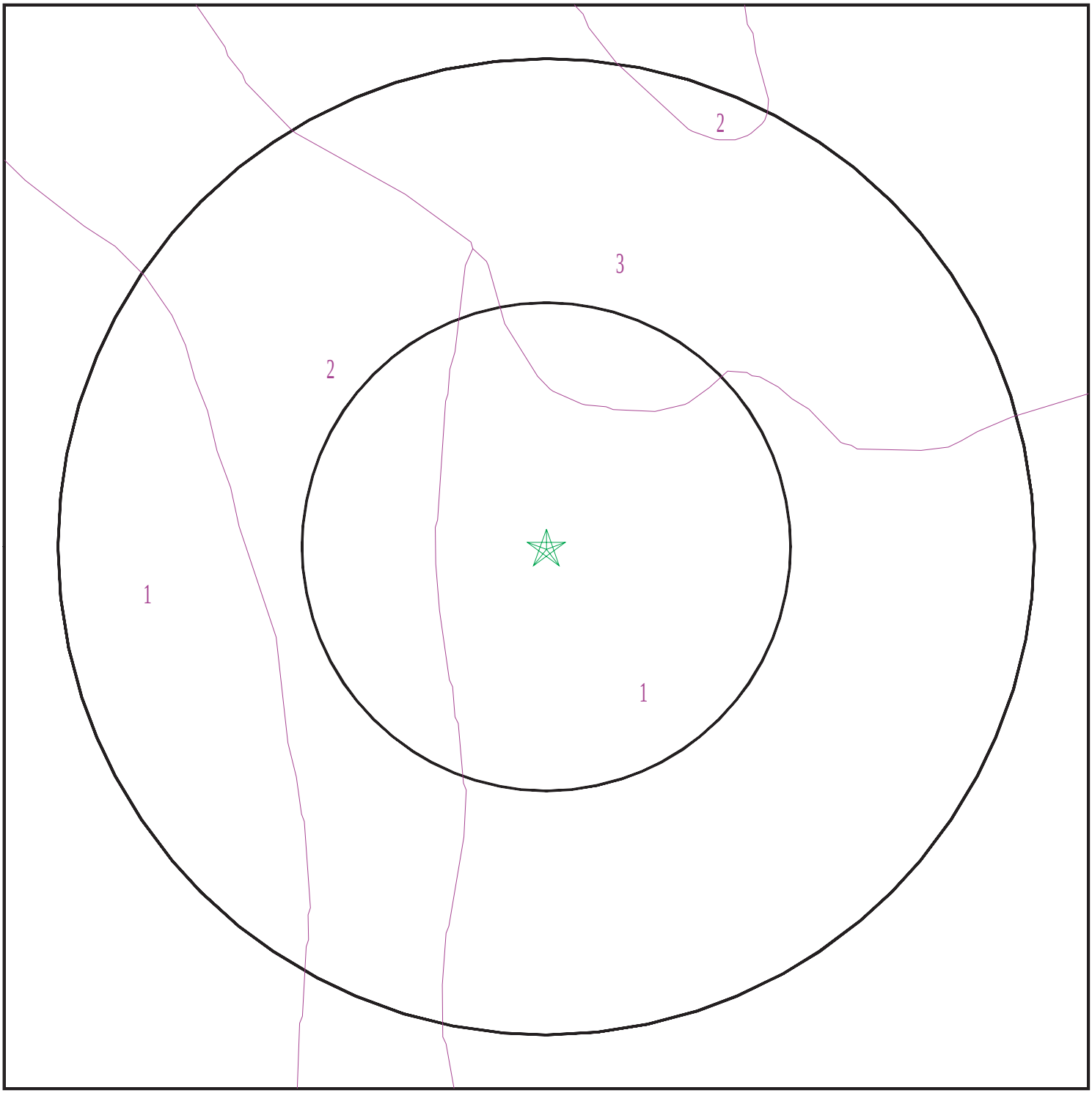
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

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 - 06485192.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	1400 East Arrow Highway	CLIENT:	Hillmann Environmental Co.
ADDRESS:	1400 East Arrow Highway Upland CA 91786	CONTACT:	Davis Tang
LAT/LONG:	34.098573 / 117.631375	INQUIRY #:	06485192.2r
		DATE:	May 10, 2021 8:35 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: Soboba

Soil Surface Texture: very stony loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	very stony loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.8 Min: 6.6
2	9 inches	59 inches	very stony sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.8 Min: 6.6

Soil Map ID: 3

Soil Component Name: SOBOBA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.3 Min: 6.6
2	11 inches	35 inches	very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.3 Min: 6.6
3	35 inches	59 inches	very stony sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.3 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000140967	1/2 - 1 Mile WSW
C5	USGS40000140838	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

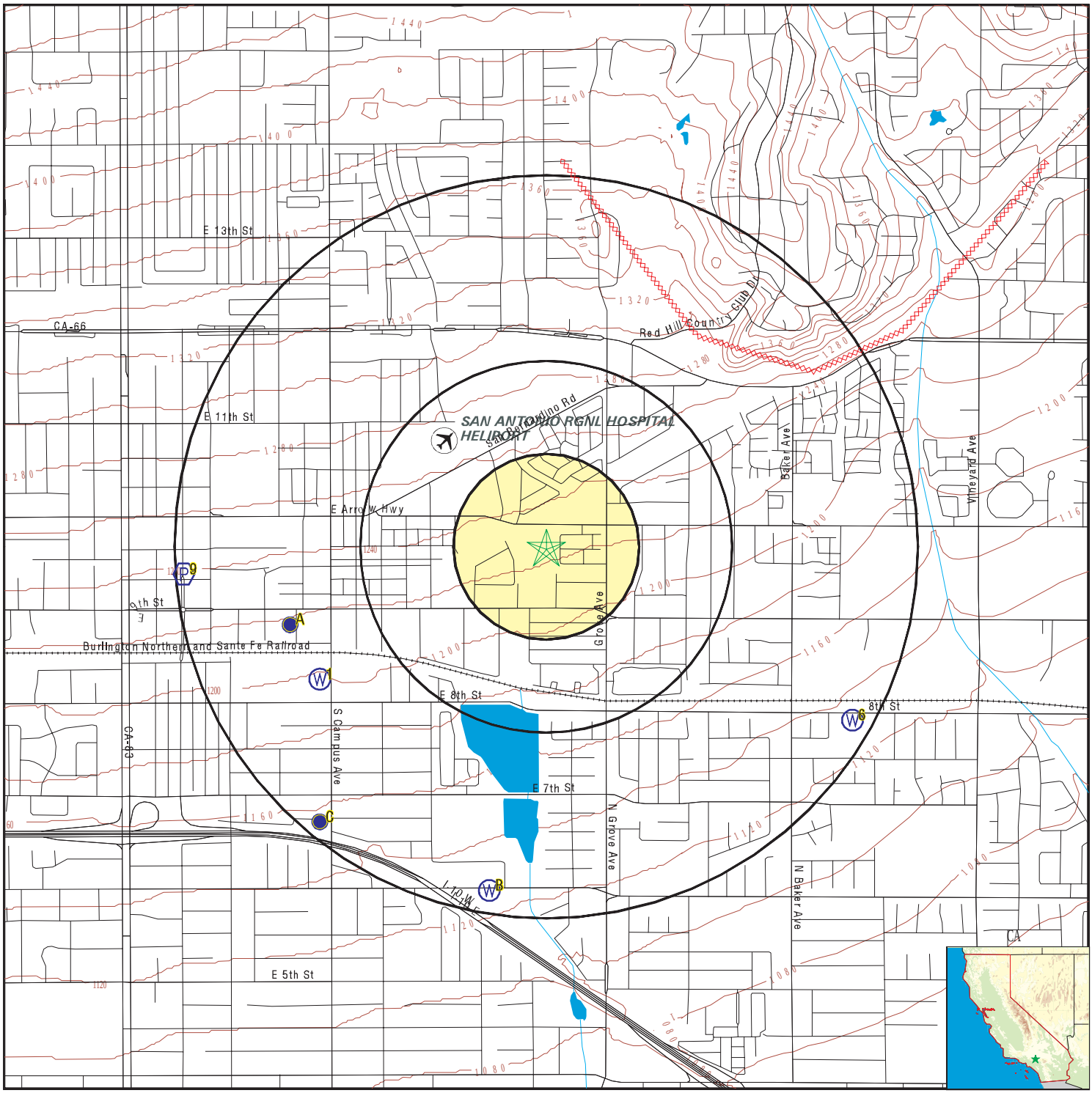
MAP ID	WELL ID	LOCATION FROM TP
9	CA3610086	1/2 - 1 Mile West

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADWR0000026578	1/2 - 1 Mile WSW
A3	CADDW0000007755	1/2 - 1 Mile WSW
B4	1074	1/2 - 1 Mile South
6	CADDW0000012726	1/2 - 1 Mile ESE
B7	CADDW0000017558	1/2 - 1 Mile South
C8	CADWR8000006712	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 06485192.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 1400 East Arrow Highway	CLIENT: Hillmann Environmental Co.
ADDRESS: 1400 East Arrow Highway Upland CA 91786	CONTACT: Davis Tang INQUIRY #: 06485192.2r
LAT/LONG: 34.098573 / 117.631375	DATE: May 10, 2021 8:35 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000026578**

Well ID:	01S07W08N001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S07W08N001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S07W08N001S&store_num=		
GeoTracker Data:	Not Reported		

A2
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140967**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007W08N001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	901
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A3
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000007755**

Well ID:	3610050-040	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 07A	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610050-040&store_num=		
GeoTracker Data:	Not Reported		

B4
South
1/2 - 1 Mile
Lower

CA WELLS **1074**

Seq:	1074	Prim sta c:	01S/07W-17G01 S
Frds no:	3610085006	County:	36
District:	13	User id:	TAN
System no:	3610085	Water type:	G
Source nam:	SAN ANTONIO WELL 12 - INACTIVE	Station ty:	WELL/AMBNT
Latitude:	340507.0	Longitude:	1173758.0
Precision:	3	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610085	System nam:	San Antonio Water Company
Hqname:	SAN ANTONIO WATER CO	Address:	139 N EUCLID AVE
City:	UPLAND	State:	CA
Zip:	91786	Zip ext:	Not Reported
Pop serv:	2927	Connection:	1108
Area serve:	SAN ANTONIO HEIGHTS		

C5
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140838**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007W17E001S	Type:	Well
Description:	Not Reported	HUC:	18070203
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:	1003
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

6
ESE
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000012726**

Well ID:	3610034-046	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL NO. 46	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610034-046&store_num=		
GeoTracker Data:	Not Reported		

B7
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000017558**

Well ID:	3610085-006	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	SAN ANTONIO WELL 12 - INACTIVE		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610085-006&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C8
SW
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000006712**

State Well #:	01S07W17E001S	Station ID:	48059
Well Name:	CHINO-1002313	Well Use:	Residential
Well Type:	Single Well	Well Depth:	1003
Basin Name:	Chino	Well Completion Rpt #:	129

9
West
1/2 - 1 Mile
Higher

FRDS PWS **CA3610086**

Epa region:	09	State:	CA
Pwsid:	CA3610086	Pwsname:	WEST END CONSOLIDATED WATER COM
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06071
Status:	Active	Retpopsrvd:	0
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	WILEY, MARK	Contactorgname:	WILEY, MARK
Contactphone:	909-291-2945	Contactaddress1:	1370 N. Benson Ave.
Contactaddress2:	Not Reported	Contactcity:	UPLAND
Contactstate:	CA	Contactzip:	91786
Pwsactivitycode:	A		

Pwsid:	CA3610086	Facid:	45534
Facname:	CENTRAL CHLORINATION TREATED CL2		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, post
Factypecode:	TP		

Pwsid:	CA3610086	Facid:	54040
Facname:	UPLAND FOOTHILL WELL NO. 3 - TREATED CL2		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

PWS ID:	CA3610086	PWS name:	WEST END CONSOLIDATED WATER COM
Address:	Not Reported	Care of:	Not Reported
City:	UPLAND	State:	CA
Zip:	917850460	Owner:	WEST END CONSOLIDATED WATER COM
Source code:	Ground water	Population:	100

PWS ID:	CA3610086	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	CA3610086
Activity status:	Active	Date system activated:	9305
Date system deactivated:	Not Reported	Retail population:	00000100
System name:	WEST END CONSOLIDATED WATER COMPANY		
System address:	Not Reported	System city:	UPLAND
System state:	CA	System zip:	91786

County FIPS:	Not Reported	City served:	WOODCREST & VIC

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	340551	Longitude:	1173851

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91786	23	2

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91786

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX F

OTHER DOCUMENTS

HILLMANN
CONSULTING

May 7, 2021

State of California
Regional Water Quality Control Board
Santa Ana – Region 8
3737 Main Street, Suite #500
Riverside, CA 92501-3339
Phone (951) 782-4130
Fax (951) 781-6288
FileReview8@waterboards.ca.gov

RE: Environmental Files:

1400 East Arrow Highway,
Upland, CA 91786

Dear RWQCB:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we are requesting any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you.

Sincerely,

Davis Tang
Environmental Scientist
Hillmann Consulting, LLC
dtang@hillmanngroup.com

Davis Tang

From: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Sent: Friday, May 7, 2021 3:40 PM
To: Davis Tang
Subject: RE: Records Request

Good afternoon,

After careful review of our records, we show we have no files for the following site:

- **1400 East Arrow Highway Upland, Ca.91786**

If we can be of further assistance, please do not hesitate to contact us again.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

From: Davis Tang <dtang@hillmannconsulting.com>
Sent: Friday, May 7, 2021 1:55 PM
To: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Subject: Records Request

EXTERNAL:

Hello,

Please conduct a records search of the attached, thank you!

1400 East Arrow Highway,
Upland, CA 91786

Regards,

Davis Tang
Environmental Scientist

Hillmann Consulting, LLC
1745 W. Orangewood Avenue, Suite #201
Orange, CA 92868
Cell: (714) 393-8186
Office: (714) 634-9500
Fax: (714) 634-9507

dtang@hillmannconsulting.com
www.HillmannConsulting.com

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Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Gavin Newsom
Governor

May 10, 2021

Davis Tang
Hillmann Consulting, LLC
dtang@hillmanngroup.com

Public Records Request Number: 1-050721-07
Location(s): 1400 East Arrow Highway, Upland, CA 91786

Dear Requestor:

On May 7, 2021 the Department of Toxic Substances Control (DTSC) received your email of the same date requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to this request. This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS unit by email at hwtsreports@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 916-255-4159 or via email at PubReqAct@dtsc.ca.gov.

Sincerely,
Choua Her
Choua Her
Regional Records Coordinator

HILLMANN
CONSULTING

May 7, 2021

State of California
Department of Toxic Substances Control
Region 4 – Cypress Regional Office
5796 Corporate Avenue
Cypress, CA 90630-4732
Phone (714) 484-5337
FAX (714) 484-5318
PubReqAct@dtsc.ca.gov

RE: Environmental Files:

1400 East Arrow Highway,
Upland, CA 91786

Dear Sir/Madam:

Hillmann Consulting, LLC is conducting an environmental investigation of the above referenced property. Under the Freedom of Information Act, we would like to request any information your office has regarding this property. If any records are located, we would like to obtain copies or schedule a file review. If no records are available, please contact me to confirm. Thank you for your assistance.

Sincerely,

Davis Tang
Environmental Scientist
Hillmann Consulting, LLC
dtang@hillmanngroup.com

SOUTH COAST AQMD

PUBLIC RECORDS REQUEST FORM

Request Information (For Office Use Only)

Date Stored

Time Stored

Public Record Request Nbr

Public Record Request Tracking Nbr
114105

Attention Requestor

Please fill out this form completely. You may include an attachment to the form, if necessary.

Requestor Information

Requestor Name
Davis Tang

Requestor Address
1745 W. Orangewood Ave, Suite 201

Requestor Company
Hillmann Consulting

Requestor City
Orange

Requestor Email*
DTANG@HILLMANNGROUP.COM

Requestor State
CA

Requestor Phone

Requestor Zip Code
92868

Type of Requested Record(s).

REQUESTED RECORDS. **Please be as specific as possible in describing the records you are seeking.** The more specific you are, the easier it will be to determine if such records exist in District files. Please contact the Public Records Unit if you need assistance in identifying District records.

Note: Permits to Operate, Equipment Lists, Notices of Violation, Notices to Comply, and Emissions Summaries are available through SCAQMD's FIND page at http://www3.aqmd.gov/webappl/fim/prog/search.aspx (you need to copy and paste this link into your browser).

Please Enter a description of the records you are requesting here:*
Notices of violation, notices to comply, complaints, site inspection records, asbestos notification/records.

Time Period of Documents Requested

Start Date*
1/1/1900

End Date*
5/7/2021

Requested Facility or Site Information (if applicable)

Note: You may only include one Facility or Site per Form.

Facility ID (if known)

Address
1400 East Arrow Highway

Facility Name (if known)

City
Upland

Zip Code
91786

Requested Application or Permit List. (if applicable)

Please click the Add Button to the right to enter a Application/Permit Number

Authorization Letter Attachment (0)

Authorization Letter

Note: Please use the above button for attaching an Authorization Letter from the facility to release confidential information for your public records request.

Supplemental Attachments (0)

Supplemental Documents

Note: Please use the above button for attaching additional documents that will help define your public records request.

INSTRUCTIONS FOR REQUESTING RECORDS

(California Public Records Act, Govt. Code Sections 6250-6276.48)

1. In order to expedite your request, please fill out the form completely. Requests may also be submitted by phone at (909) 396-3700, by facsimile to (909) 396-3330, or by email to PublicRecordsRequests@aqmd.gov.

2. Requests must be for records prepared, owned, used, or retained by the District (Gov. Code Sec. 6252(e)). Requests should be for clearly identifiable records. The District is not required to create a new record in response to a request. The District will assist the requestor in making a request that describes reasonably identifiable records (Gov. Code Sec. 6253.1). Documents will not be provided if disclosure would infringe upon a copyright, trade secret, or is otherwise exempt in accordance with state law.

3. A search for facility records can only be conducted by one or all of the following:

-- a) Facility Name, Address, or Identification Number

-- b) Facility Application Number, or Permit to Operate Number; or

-- c) Facility Notice of Violation/Notice to Comply Number.

4. You will be notified within ten (10) days whether your request seeks copies of disclosable public records prepared, owned, used, or retained by this agency. In some cases, the District may need an additional 14 days to respond. If so, you will be notified in writing. You will also be provided an estimated date of when the records will be made available.

5. Communications regarding your request, and any records, will be provided by email, unless specified otherwise.

6. If the search for records finds the records voluminous, you will be notified of the approximate number of pages and/or length of time it will take to process your request.

7. If the records you requested have been marked confidential by the source of the record, you will be notified and given the option of continuing with the District's Trade Secret process.

8. If your request is to review records, rather than receive copies, the District will notify you once the records are gathered, and arrangements will be made for your review.

9. The charge for the direct cost of duplication is as follows: Paper Copies, $0.15/page each over 10 pages (first 10 pages are free); Copied CD's or flash drives, no charge; and Copied Audio Tapes, $5.00 each. After a preliminary estimate, advance payment may be required.

10. If the request is for information in an electronic format, the requestor shall bear the cost of producing a copy of the record, including the cost to construct the record and the cost of programming and computer services necessary to produce a copy of the record, when either of the following applies: (1) the District would be required to produce a copy of an electronic record and the record is one that is produced only at otherwise regularly scheduled intervals, or (2) the request would require data compilation, extraction, or programming to produce the record. (Gov. Code Sec. 6253.9(b)). The transfer of gathered electronic records onto CD, DVD or flash drive typically costs $10.00 each. An invoice will accompany your records when completed.

Note: For further information, please refer to the District's Guidelines for Implementing the California Public Records Act. The Guidelines are available in the lobby of the District Headquarters or on the District's web site at www.aqmd.gov.

Note: If you have questions pertaining to the submittal of a Public Records Act request, you may contact the Public Records Unit, (909) 396-3700, Tuesday through Friday, 7:00 a.m. to 5:30 p.m. Our Fax number is (909) 396-3330. Our email address is PublicRecordsRequests@aqmd.gov.

Cucamonga Basin #6 | Upland, CA

Dear Consumer:

The annual Consumer Confidence Report (CCR) describing the features and quality of our drinking water supply is contained in this document. State law requires that all water retailers inform their customers about the quality of water delivered. The Mayor and City Council are pleased to provide this information.

The City of Upland remains in a Level High Water Shortage Stage, which in simple terms means the call for water savings must continue. The City of Upland Water Division is dedicated to providing you with a safe and reliable supply of high quality drinking water. **The water delivered to you meets all State and Federal Drinking Water Standards for quality and safety.** We continually test our water using the most sophisticated equipment and advanced procedures. A summary of our 2019 laboratory test results, which demonstrate detection of trace contaminants in the water supply, is included in the Test Results Table of this report.

For Information on City of Upland Consumer Confidence Report in Spanish, contact Michelle Madriz (909) 291-2935.

Para obtener información sobre el Informe de confianza del consumidor de la ciudad de Upland en español, comuníquese con Michelle Madriz (909) 291-2935.

I. WATER SOURCES

To better understand how the City of Upland supplies water to its customers, the following summary of water sources may be helpful. Each of these sources may be impacted by drought conditions. Over the past five years the City of Upland, along with the rest of California, has grappled with significant water challenges from aging infrastructure, water quality, and ultimately water scarcity, mostly driven by persistent drought conditions.

The City of Upland remains in a Level High Water Shortage Stage, which in simple terms means the call for water savings must continue. Understanding our local water supply provides clarity to the question of why are we still in a High Level Water Shortage Stage when other areas of the state are not. Upland gets its water from three primary sources: groundwater, local surface water from San Antonio Creek, and imported water. All our groundwater and local surface water depend on rainfall for replenishment. Our groundwater basins are still at historically low levels and will need several years of above normal precipitation to return the groundwater to pre-drought levels. To protect this valuable resource, the City asks customers to continue using water as efficiently as possible. We as a community must embrace "conservation as a California way of life." Conserving water saves money, allows us to avoid buying costly imported supplies, and helps to ensure we can maintain the resiliency we have long benefited from. The City is committed to encouraging efficient water use with programs, incentives, and by providing informational assistance to customers to help our customers implement water conserving measures at home or place of business. The City is proud to showcase our Drought Tolerant Landscape Demonstration Garden at City Hall where customers can obtain free educational materials to help them in their conservation efforts. These services remain an important part of fulfilling the City of Upland's promise to maintain a robust and resilient water system for our community. For more ways to save water, please call (909) 291-2935 or visit https://www.uplandca.gov/water-conservation.

The City of Upland used **5.7 billion gallons** of water in 2019.

1. GROUNDWATER ~ About **3.86 billion gallons** of groundwater was pumped from nine City of Upland wells, seven San Antonio Water Company wells, and four West End Consolidated Water Company wells, fulfilling **67.7%** of our customer's needs. Groundwater produced by the water wells mentioned above was extracted from the Chino, Claremont Heights, and Cucamonga Aquifers.

2. SURFACE WATER ~ Due to the local rain and snow fall, the City was able to receive approximately **655.8 million gallons** of surface water that was processed through the City's San Antonio Canyon Water Treatment Plant fulfilling **11.6%** of our customer's needs.

3. IMPORTED WATER ~ About **1.25 billion gallons, or 21.9%** of our water, originated from high mountain streams in Northern Sierra Nevada. It flows via the State Water Project to Lake Silverwood, north of the City of San Bernardino. The journey to the City of Upland is completed through a 120-inch diameter pipeline that crosses Upland beneath 18th Street. The imported water is purchased from the Metropolitan Water District of Southern California (MWD), and treated at the Water Facilities Authority (WFA - JPA), Agua de Lejos Water Treatment Plant located on Benson Avenue, north of 17th Street.

4. RECYCLED WATER ~ The City utilized **214.3 million gallons** of recycled water for green belts and various sites, using a valuable asset to maintain the City of Upland's motto, "The City of Gracious Living".

II. WATER PERMIT

The permits to operate the City of Upland and the West End Consolidated Water Company water systems were issued by the State Water Resources Control Board (State Board), Division of Drinking Water. The permit for the City of Upland and West End Consolidated Water Company was last issued in 1993, but has been amended to include new water facilities as they are constructed. This regulatory

agency also completes yearly inspections of both the City of Upland and the West End Consolidated Water Company systems. This same regulatory aagency also completes yearly inspections of both the City of Upland and the West End Consolidated gency also receives laboratory analyses directly via Electronic Data Transfer (EDT) from the State certified laboratory and monitors all laboratory analyses on a continual basis. This assures you, the consumer, that all mandatory monitoring is performed as required.

III. WATER QUALITY ~ DRINKING WATER STANDARDS

Individual water suppliers do not decide what constitutes "safe" water. As required by the Federal Safe Drinking Water Act, all public water suppliers in California must meet stringent quality standards set by the United States Environmental Agency (USEPA) and regulated by the State Water Resources Control Board (SWRCB) - Division of Drinking Water. These two organizations set standards to protect the public from potential health risks. In California, drinking water standards (also called Maximum Contaminant Levels or MCL's) are set in two categories. Primary Standards relate to public health, and Secondary Standards relate to aesthetic qualities such as taste, color, and odor. A comprehensive list of sampling results for all Upland water sources is listed in the Test Result Section of the Consumer Confidence Report (CCR).

Before the water reaches your tap, samples from wells, water treatment plants, and the distribution system have been collected and tested in State-certified laboratories. Last year, as in years past, your water met all Environmental Protection Agency and State drinking water health standards. The Public Works Department conducts more than **3,000 tests** on the water delivered to its consumers each year, which includes sampling for over **300 different contaminants**. This regular program of water analysis and system inspection assures safe water is provided to you and your family.

IV. FINAL AND CURRENT WATER QUALITY SAMPLING

GROUNDWATER DISINFECTION RULE (GDR)

The United States Environmental Protection Agency (USEPA) issued a rule to further protect America's drinking water by requiring action to protect groundwater sources of public drinking water supplies from disease causing viruses and bacteria. The rule will protect more than 100 million Americans by requiring identification of deficiencies in water systems that could lead to contamination and corrective actions to reduce risk from any identified deficiencies. The rule includes provisions for monitoring for systems with sources at risk, and actions to remove or inactivate contaminants, if found, to prevent them from reaching drinking water consumers. The compliance date for triggered monitoring was December 1, 2009.

UNREGULATED CONTAMINANTS MONITORING RULE (UCMR 4)

The California Department of Health Services selected the City of Upland to participate in the **Unregulated Contaminants Monitoring Rule (UCMR 4)** study. The study requires each water system to provide data of special sampling for specific contaminants that could potentially be regarded as a health risk. SWRCB compiles and reviews the water systems results data for all contaminants listed in the UCMR sampling program. The monitoring plan was utilized with sampling beginning in May 2019 and completed in December 2020.

STAGE 2 DISINFECTANTS BY-PRODUCT / DBP RULE

The Stage 2 Disinfectant By-Product (DBP) Rule focuses on public health protection by limiting exposure to DBPs, specifically Total Trihalomethanes (TTHM) and five Haloacetic Acids (HAA5), which can form through disinfectants used to control microbial pathogens. In order to comply with the Stage 2 DBP Rule, the City of Upland devised a monitoring plan that required additional sampling points throughout the system. The City's proposed monitoring plan for sampling was approved by SWRCB. The compliance schedule and compliance monitoring was implemented in April 2012. Analyses results are presented in the Test Table Result portion of the Consumer Confidence Report.

LEAD AND COPPER SAMPLING

Lead and Copper Sampling will be completed by 2020.

LONG TERM ENHANCED SURFACE WATER TREATMENT RULE (LTESWTR)

The purpose of the Long Term Enhanced Surface Water Treatment Rule **(LTESWTR)** is to reduce illness linked with the contaminant Cryptosporidium and other microbial pathogens in drinking water. The rule will supplement existing regulations for surface water systems by targeting additional Cryptosporidium treatment requirements for systems with higher risk sources. It is important to note that the rule does not require additional Cryptosporidium treatment for Public Water Systems. Additional treatment is required only for systems with higher risk sources found during the monitoring phase of the rule. The rule also contains provisions to reduce risks resulting from uncovered finished water reservoirs and to ensure that systems maintain microbial protection as they take steps to decrease the formation of disinfection byproducts that result from chemical water treatment. The City monitored for Cryptosporidium from October 2006 through October of 2008. The monitoring resulted in a Bin 2 classification for the City's San Antonio Canyon Water Treatment Plant (SACWTP). To comply with the Bin 2 classification, stricter guidelines for turbidity are required. Turbidity limits will be reduced from 0.30 NTU's to 0.15 NTU's for treatment plant finished water. Individual filter limits will be reduced to 0.10 NTU's. The City's water treatment facility has been using multi-barrier protection for the source water which consists of watershed protection, chlorination, coagulation, sedimentation, and filtration. The results of the **LTESWTR** monitoring are included in the **TEST RESULT TABLES** and an explanation of the City's treatment requirements under the rule.

SAN ANTONIO CANYON WATERSHED SURVEY

Every fifth-year, the City of Upland, City of Pomona, and San Antonio Water Company prepare and submit a Watershed Survey of the San Antonio Canyon Water Flow to the SWRCB. This report requires water quality sampling and monitoring of the watershed to enhance the protection of our local watershed flow from potential contamination. The first report was submitted to the CDPH in March 2001. The 2016 report was completed and filed, the next report is due in March 2021.

V. TREATMENT

The City of Upland receives imported water from the Metropolitan Water District of Southern California (MWD) via the Water Facilities Authority - Agua de Lejos Water Treatment Plant after it undergoes a four-stage treatment process. The first process is coagulation/flocculation that allows particles suspended in the water to cluster together and form larger particles called "floc". The second process is sedimentation, where the "floc" is allowed to settle out of the water. Filtration removes any remaining fine particles by passing the water through a filter bed. The last process is where chemicals are added to ensure the safety of the water in the distribution system. The treated water is then delivered to Upland's reservoir at 17th Street and Benson Avenue.

The surface water we receive from San Antonio Creek flows to the San Antonio Canyon Water Treatment Plant (SACWTP). This surface water goes through several treatment processes, which removes impurities and disinfects the water. First, chemicals are mixed into the water to help the suspended impurities (particles) cluster together. Next, the water flows into filter modules, initially upward through the first stage filters, which trap some particles. Then the water flows downward through the final filters to remove any remaining particles. The final step consists of disinfection and storage in a large reservoir. From the reservoir the treated water flows into the distribution system and then into your home.

Water that the City receives from local groundwater wells is of such good quality that it is only treated with chlorine and then pumped into reservoirs, and in some instances blended with other water sources. This water then flows into the distribution system and then into your home.

VI. WATER QUALITY PARAMETERS AND IMPORTANT REMINDERS

Filtration and disinfection of surface water supplies are necessary for the protection of public health. The Water Facilities Authority – Agua de Lejos Water Treatment Plant, supplies a portion of the water delivered by the City of Upland. Water is filtered and disinfected with **Chloramines** (a combination of chlorine and ammonia). **All of our customers should be aware that their water might sometimes contain Chloramines.** Except for a slight chlorine taste or odor, Chloramines will not cause any problems for the general public. However, **Chloramines must be removed before the water can be used in aquariums or kidney dialysis machines.**

VII. REPORTING PERIOD

The City of Upland routinely monitors for contaminants in your drinking water according to Federal and State Law. The City's Test Results table shows the results of our monitoring for the period of January 1 through December 31, 2019. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at 1-800-426-4791.

VIII. SOURCE WATER ASSESSMENTS

An assessment of the City of Upland's drinking water sources was completed in 2014. The San Antonio Creek water source assessment was completed in 2016.

***A copy of the complete assessment may be viewed at the City of Upland Public Works Department or at the Department of Water Resources, San Bernardino District Office, 464 West 4th Street, Suite 437, San Bernardino, Ca. 92401. You may request a summary of the assessment be sent to you by contacting the SWRCB District Engineer at (909) 383-4328.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Este informe contiene información muy importante sobre su agua potable.
Tradúzcalo o hable con alguien que lo entienda bien.

Monitoring Requirements Not Met for the City of Upland

Our water system failed to monitor as required for drinking water standards during the past year and, therefore, was in violation of the regulations. Even though this failure was not an emergency, as our customers, you have a right to know what you should do, what happened, and what we did to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2017 - 2019, we did not complete all monitoring for lead and copper and therefore, cannot be sure of the quality of your drinking water during that time.

- There is nothing you need to do at this time.
- The table below lists the contaminant(s) we did not properly test for during the last year, how many samples we are required to take and how often, how many samples we took, when samples should have been taken, and the date on which follow-up samples were (or will be) taken.

Contaminant	*Required Sampling Frequency*	*Number of Samples Taken*	*When All Samples Should Have Been Taken*	*When Samples Were or Will Be Taken*
Lead and Copper	Minimum of 30 samples during sampling period every 3rd year	0	June 1st, 2019 to September 30th,2019	June 1st, 2020 to September 30th 2020

• If you have health issues concerning the consumption of this water, you may wish to consult your doctor.

What is being done?

We plan to take the required samples soon, as described in the last column of the table above.

For more information, please contact Mr. John Robles, Chief Water Treatment Operator at (909) 291-2930 or 460 N Euclid Ave, Upland, CA 91786

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail.

Secondary Notification Requirements

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:

- *SCHOOLS: Must notify school employees, students, and parents (if the students are minors).*
- *RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS (including nursing homes and care facilities): Must notify tenants.*
- *BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS: Must notify employees of businesses located on the property.*

This notice is being sent to you by the City of Upland.

State Water System ID#: 3610050. Date distributed: July 1, 2020.

IX. DEFINITIONS AND ABBREVIATIONS

Less Than Number Shown (<)

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Nephelometric Turbidity Unit (NTU): Nephelometric Turbidity Unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Non-Detects (ND): Laboratory analysis indicates that the contaminant is below detection level.

No Standards (NS)

Parts per billion (ppb) or Micrograms per liter (ug/l): One part per billion corresponds to one minute in 2,000 years, or a single penny in $10 million.

Parts per million (ppm) or Milligrams per liter (mg/l): One part per million corresponds to one minute in two years, or a single penny in $10,000.

Parts per Trillion (PPT): One part per trillion corresponds to one minute in 2,000,000 years or a single penny in $10 billion.

Picocuries per liter (pCi/L): Picocuries per liter is a measurement of the radioactivity in water.

Primary Drinking Water Standard (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Regulatory Action Levels (AL): The concentration of a contaminant which, when exceeded, triggers treatment or other requirements that a water system must follow.

Treatment Technique (TT): A treatment technique is a required process intended to reduce the level of contaminants in drinking water.

X. SYMBOLS

(a) = Results are based on distribution system sampling of approximately 1,000 samples.

(b) = Sources are blended to meet state MCL.

(c) = 1,2,3-trichloropropane (1,2,3-TCP) had a notification level (NL) of 5 ppt until December 14, 2017, when the MCL of 5 ppt became effective.

(d) = There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.

(e) = Negative values occur when the background count, as part of the analytical result, exceeds the count in the actual count.

(f) = Standard is for Radium 226 & 228 combined.

(g) = No schools requested lead sampling during 2018.

(h) = State level is dependent upon air temperature.

XI. TEST RESULT TABLE HEALTH EFFECT LANGUAGE

The following health effect language is required for this report if any contaminant has been detected in the water supply. The City's domestic water supply meets all State and Federal Drinking Water Quality Standards.

The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

Aluminum

Some people who drink water containing Aluminum in excess of the MCL over many years may experience short-term gastrointestinal tract effects.

Bromate

Some people who drink water containing Bromate in excess of the MCL over many years may have an increased risk of getting cancer.

Chloramines
Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort.

Chlorine
Some people who use water-containing chlorine well in excess of MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Chlorine Dioxide
Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink the water.

Chlorite
Some infants and young children who drink water containing chlorite in excess of MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of MCL. Some people may experience anemia.

Chromium
Some people who use water containing chromium in excess of the MCL over many years may experience allergic dermatitis.

Combined Radium 226/228
Some people who drink water containing Radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.

Cryptosporidium
Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes Cryptosporidium, the most commonly used treatment methods cannot guarantee 100 percent removal. Ingestion of Cryptosporidium may cause Cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However immuno-compromised people, infants, small children, and the elderly are at a greater risk of developing life threatening illness. Individuals at risk should consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

Dibromochloropropane (DBCP)
Some people who use water containing Dibromochloropropane (DBCP) in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.

Fluoride
Some people who drink water containing Fluoride in excess of the Federal MCL of 4 mg/L over many years may get bone disease, including pain and tenderness of the bones. Children who drink water-containing fluoride in excess of the state's MCL of 2 mg/L may get mottled teeth.

Gross Beta Particle Activity
Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Haloacetic Acids
Some people who drink water containing Haloacetic Acids in excess of the MCL over many years may have an increased risk of getting cancer.

Hexavalent Chromium
Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer.

Lead
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Upland is responsible for providing high quality drinking water, but the City cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may wish to have your water tested. Information on lead in drinking water testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Microbiological Contaminants – Total Coliform bacteria, Fecal coliform and E. coli
Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

Fecal coliforms and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.

Nitrate
Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Tetrachloroethylene (PCE)
Some people who use water containing Tetrachloroethylene (PCE) in excess of the MCL over many years may experience liver problems, and may have an increased risk of getting cancer.

Total Organic Carbon
Total Organic Carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include Trihalomethanes (THM's) and Haloacetic Acids, (HAA's). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of cancer.

Total Trihalomethanes (TTHMs)
Some people who drink water containing Trihalomethanes (THM's) in excess of the MCL over many years may experience liver, kidney or central nervous system problems and may have an increased cancer risk.

1,2,3-Trichloropropane
Some people who drink water containing 1,2,3-trichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.

Turbidity
Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Uranium
Some people who drink water-containing Uranium in excess of the MCL over many years may have kidney problems and an increased risk of getting cancer.

XII. Public Health Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material; it also can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- **Microbial contaminants,** such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants,** such as salt and metals, which can be natural-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and herbicides,** which may come from a variety of sources such as agricultural, urban storm water runoff, and residential use.
- **Organic chemical contaminants**, includes synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- **Radioactive contaminants,** which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791). Additional information on bottled water is available on the California Department of Public Health website (https://www.cdph.ca.gov/Programs/CEH/DFDCS/Pages/FDBPrograms/FoodSafetyProgram/Water.aspx).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

2019 CONSUMER CONFIDENCE REPORT

IS OUR WATER SAFE TO DRINK?

The water provided by the City of Upland meets all State and Federal standards and regulations for domestic drinking water. The City will continue to strive to provide the citizens of Upland with the highest quality of water that they have come to expect from "The City of Gracious Living."

If you have any questions or concerns regarding this report or your water utility, please contact Mr. John Robles, Chief Water Treatment Operator, at (909) 291-2930. It is the City's goal for you, our valued customers, to be informed about their water quality.

City Council meetings are held on the second and fourth Monday of every month, and Public Works Committee meetings are held quarterly, on the second Tuesday of January, April, July, and October. All items that are heard by the City Council or the Public Works Committee are placed on the required agendas and posted at City Hall located at 460 North Euclid Avenue, Upland, California. The City of Upland Consumer Confidence Report can also be found on the **City's Web Site www.uplandca.gov**.

Thank you for allowing the City to continue providing you, your family, friends and neighbors with clean, quality water this year; and for your effort to conserve our precious water supply. In order to maintain a safe and dependable water supply, the City sometimes needs to make improvements that will benefit all customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

The City works around the clock to provide top quality water to every tap and requests that all of our customers help protect and preserve our water sources, which are the heart of our community, our way of life, and our children's future.

Sincerely,

Rosemary Hoerning, PE, PLS, MPA
City Manager

2019 TEST RESULTS
TABLE 1

CONTAMINANT	VIOLATION	UNITS	STATE MCL	STATE PHG	GROUNDWATER SUPPLY	SURFACE WATER SUPPLY	LIKELY CONTAMINATION
				(MCLG)	RANGE	RANGE	SOURCE
CLARITY: TURBIDITY	No Violation	NTU	TT	TT	ND - 7.90	0.038 - 0.10 Highest	Soil runoff
Weighted Avg.	0.90					% ≤ 0.3 100%	
MICROBIOLOGICAL CONTAMINANTS							
TOTAL COLIFORM BACTERIA (a)	No Violation	% Positive	5%	No State PHG	0 - 0	0 - 0	Naturally present in the environment
FECAL COLIFORM AND E. COLI							Human and animal fecal waste
			A routine sample and repeat sample are total positive , and one is also Fecal Coliform or E. Coli positive.				
SYNTHETIC ORGANIC CONTAMINANTS INCLUDING PESTICIDES AND HERBICIDES							
DIBROMOCHLOROPROPANE (b)	No Violation	ppt	200	1.7	ND - 40.00	ND - ND	Banned Nematocide that may still be present in soils
Weighted Avg.	0.026						due to runoff/leaching from former use on soybeans
							cotton, vineyards, tomatoes, and tree fruit.
1,2,3-TRICHLOROPROPANE (c)	No Violation	ppt	0.005	0.0007	ND - ND	ND - ND	Discharge from industrial and agricultural chemical factories;
Weighted Avg.	ND						leaching from hazardous waste sites; used as cleaning and
							maintenance solvent, paint and varnish remover, and cleaning
							and degreasing agent; byproduct during the production of other
							compounds and pesticides.
VOLITAILE ORGANIC CONTAMINANTS							
PCE	No Violation	ppb	5	0.06	ND - 4.24	ND - ND	Discharge from factories, dry cleaners,
Weighted Avg.	0.287						and auto shops (metal degreaser)
UNREGULATED INORGANICS							
VANADIUM	No Violation	ppb	NOTIFICATION LEVEL	NS	ND - 4.90	ND - ND	Naturally-occurring; the primary PCA is steel
Weighted Avg.	0.06		50				manufacturing, also used in the manufacturing of
							phthalic anhydride, sulfuric acid, pesticides, dyes,
							inks, pigments, and other chemicals; has been found
							in association with hazardous waste sites.
CHROMIUM, HEXAVALENT (d)	No Violation	ppb	10	0.02	ND - 5	ND - ND	Discharge from electroplating factories, leather tanneries,
(Chr. VI)							wood preservation, chemical synthesis, refractory production,
Weighted Avg.	0.62						and textile manufacturing facilities; erosion of natural deposits.
Radioactive Contaminants							
ALPHA ACTIVE, GROSS (e)	No Violation	pCi/L	15	0	ND - 5.80	ND - 1	Decay of natural and man-made
Weighted Avg.	0.643						deposits
BETA ACTIVITY, GROSS	No Violation	pCi/L	50	0	ND - 0.17	ND - ND	Erosion of natural deposits
Weighted Avg.	0.243						
RADIUM 226	No Violation	pCi/L	See Below	0.05	ND - ND	ND - ND	Erosion of natural deposits
RADIUM 228	No Violation	pCi/L	See Below	0.019	ND - ND	ND - ND	Erosion of natural deposits
RADIUM 226 & 228 COMBINED (f)			5				
Weighted Avg.	ND						
URANIUM	No Violation	pCi/L	20	0.43	ND - .92	ND - ND	Erosion of natural deposits
Weighted Avg.	1.567						

2019 TEST RESULTS
TABLE 2

CONTAMINANT	VIOLATION	UNITS	STATE MCL	STATE PHG	GROUNDWATER SUPPLY	SURFACE WATER SUPPLY	LIKELY CONTAMINATION
				(MCLG)	RANGE	RANGE	SOURCE
SECONDARY STANDARDS							
ALUMINUM	No Violation	µg/L	200	NS	ND - 0.56	ND - 0.13	Erosion of natural deposits; residue from surface
Weighted Avg.	69.03						water treatment processes
CHLORIDE	No Violation	mg/L	500	NS	3.30 - 16	1.30 - 48	Runoff and leaching from natural deposits.
Weighted Avg.	16.27						
COLOR	No Violation	Units	15	NS	< 3 - 10	< 3	Natural occurring organic materials.
Weighted Avg.	< 3						
COPPER	No Violation	mg/L	1	NS	ND - 0.038	ND - ND	Wood preservatives.
Weighted Avg.	43.17						
ODOR THRESHOLD	No Violation	Units	3	NS	ND - .42	0.12 - 0.34	Natural occurring organic materials.
Weighted Avg.	0.98						
pH	No Violation	Units	NS	NS	7.60 - 8.20	7.50 - 8.10	
Weighted Avg.	N/A						
SPECIFIC CONDUCTANCE	No Violation	µS/cm	1600	NS	370 - 660	330 - 343	Substances that form ions when in water.
Weighted Avg.	389.05						
SULFATE	No Violation	mg/L	500	NS	24 - 66	24 - 35	Runoff and leaching from natural deposits;
Weighted Avg.	28.41						Industrial wastes.
TOTAL DISOLVED SOLIDS	No Violation	mg/L	1000	NS	240 - 450	200 - 203	Runoff and leaching from natural deposits.
Weighted Avg.	253.57						

2019 TEST RESULTS
TABLE 3

CONTAMINANT	VIOLATION	UNITS	STATE MCL	STATE PHG (MCLG)	GROUNDWATER SUPPLY RANGE	SURFACE WATER SUPPLY RANGE	LIKELY CONTAMINATION SOURCE
STATE REGULATED CONTAMINANTS WITH NO MCLs							
DICHLORODIFLUORMETHANE	No Violation	ppb	NOTIFICATION LEVEL	NS	ND - 0.10	ND - ND	Discharge from industries, factories,
FREON 12			1 ppm				propellants, and refrigerants
Weighted Ave.	0.098						
CHROMIUM, TOTAL (d)	No Violation	ppb	NOTIFICATION LEVEL	NS	ND - 5	ND - ND	Discharge from electroplating factories, leather tanneries,
Weighted Ave.	0.49		n/a				wood preservation, chemical synthesis, refractory production,
							and textile manufacturing facilities; erosion of natural deposits.
1,2,3-TRICHLOROPROPANE (e)	No Violation	ppb	NOTIFICATION LEVEL	NS	ND - ND	ND - ND	Discharge from industrial and agricultural chemical factories;
Weighted Ave.	ND		5 ppt				leaching from hazardous waste sites; used as cleaning and
							maintenance solvent, paint and varnish remover, and cleaning
							and degreasing agent; byproduct during the production of other
							compounds and pesticides.
LEAD AND COPPER 2016							
LEAD (g)	No Violation	ppb	ACTION LEVEL	2	ND - 5.7	ND - ND	Internal corrosion of household plumbing systems;
Weighted Avg.	N/A		15 ppb		90th Percentile (2.8 ppb)		erosion of natural deposits; leaching from
Number of Schools Requesting Lead Sampling in 2019: 1							wood preservatives.
COPPER	No Violation	ppm	ACTION LEVEL	0.3	ND - 0.56	ND - ND	Internal corrosion of household plumbing systems;
Weighted Avg.	N/A		1.3		90th Percentile (0.40 ppm)		erosion of natural deposits; leaching from
							wood preservatives.
INORGANIC CONTAMINANTS							
ALUMINUM	No Violation	ppb	1000	60	ND - 560	ND - 13	Erosion of natural deposits; residue from surface
Weighted Avg.	69.03						water treatment processes
FLOURIDE (h)	No Violation	ppm	2	1	0.15 - 0.42	ND - .37	Erosion of natural deposits; water additives which
Weighted Avg.	0.28						promote strong teeth, discharges from fertilizer,
							and aluminum factories.
NITRATE	No Violation	ppb	10	10	ND - 6.8	0.20 - 0.90	Runoff and leaching from fertilizer use; leaching
Weighted Avg.	3.01						from septic tanks; erosion of natural deposits.
NITRITE	No Violation	ppm	1	1	ND - ND	ND -0.02	Runoff and leaching from fertilizer use; leaching
Weighted Avg.	0.06						from septic tanks; erosion of natural deposits.
PERCHLORATE	No Violation	ppb	6.2	NS	ND - 2.70	ND - ND	Perchlorate is an inorganic chemcal used in solid
Weighted Avg.	0.71						rocket propellant; fireworks, explosives, flares,
							matches, and a variety of industries. It usually gets
							into drinking water as a result of environmental
							contamination from historic aerospace or other
							industrial operations that used or use, store, or
							dispose of perchlorate and its salts.
ARSENIC	No Violation	ppb	10	0.004	ND - 4.30	ND - 1.0	Erosion of natural deposits; runoff from orchards
Weighted Avg.	3.17						glass and electronic production wastes.
BARIUM	No Violation	ppm	1	2	ND - 0.064	ND - 0.043	
Weighted Avg.	0.02						Some people who drink water containing barium in
							excess of the MCL over many years may experience an
							increase in blood pressure.

2019 TEST RESULTS
TABLE 4

CONTAMINANT	VIOLATION	UNITS	STATE MCL	STATE PHG (MCLG)	GROUNDWATER SUPPLY RANGE	SURFACE WATER SUPPLY RANGE	LIKELY CONTAMINATION SOURCE
BROMATE	No Violation	ppb	10	0.1	ND	ND	By-product of drinking water disinfection.
Weighted Avg.	ND						
CHLORINE (MRDL)	No Violation	ppm	MRDL	MRDL	0.14 - 1.51 SYSTEM RANGE		Drinking water disinfectant added for treatment.
Weighted Avg.	N/A		4	4			
CHLORINE RESIDUAL					0.964 SYSTEM AVERAGE		
CHLORAMINES	No Violation	ppm	MRDL	MRDL	N/A	N/A	Drinking water disinfectant added for treatment.
Weighted Avg.	N/A		4	4			
TOTAL ORGANIC CARBONS	No Violation	ppm	MRDL	MRDL	N/A	ND - ND	Various natural and man-made sources.
Weighted Avg.	ND		TT	TT			

WATER BORN PATHOGENS							
CRYPTOSPORIDIUM	YES, BIN 2	BIN 1,2,3,4,	TT	TT	ND	ND	The findings for Cryptosporidium placed the City's water treatment
Weighted Avg.	ND						facility into a Bin 2 classification. This required the City to decrease the
							the finished water turbidity requirement from 0.30 NTU's to 0.15 NTU's .

DISINFECTANT BYPRODUCTS					SYSTEM RANGE		
TOTAL TRIHALOMETHANES	No Violation	ppb	80	0	0 - 74		By-product of drinking water disinfection.
Highest LRRA	61						
HALOACETIC ACIDS	No Violation	ppb	60	0	0 - 27		By-product of drinking water disinfection.
Highest LRRA	13						

2019 TEST RESULTS
TABLE 5

		UNITS	STATE MCL	STATE PHG (MCLG)	GROUNDWATER SUPPLY RANGE	SURFACE WATER SUPPLY RANGE	LIKELY CONTAMINATION SOURCE
ADDITIONAL INFORMATION							
CALCIUM		ppm	NS	NS	38 - 89	14.3 - 52	Leaching from natural deposits.
Weighted Avg.	48.55						
HARDNESS		ppm	NS	NS	100 - 300	61 - 160	Leaching from natural deposits.
Weighted Avg.	166.14						
MAGNESIUM		ppm	NS	NS	2.40 - 22.0	6.10 - 8.10	Leaching from natural deposits.
Weighted Avg.	10.1						
POTASSIUM		ppm	NS	NS	ND - 2.60	1.50 - 1.80	Leaching from natural deposits.
Weighted Avg.	1.8						
SODIUM		ppm	NS	NS	8.90 - 39.0	5.30 - 25.0	Leaching from natural deposits.
Weighted Avg.	17.1						
TOTAL ALKALINITY		ppm	NS	NS	130 - 270	50 - 150	Leaching from natural deposits.
Weighted Avg.	134.22						
CARBONATE		ppm	NS	NS	ND - ND	ND - 2.90	Leaching from natural deposits.
Weighted Avg.	0.33						
BICARBONATE		ppm	NS	NS	160 - 330	61 - 180	Leaching from natural deposits.
Weighted Avg.	164.19						

2019 UNREGULATED CONTAMINANT MONITORING
RULE 3 RESULTS

CONTAMINANT	UNITS	NOTIFICATION LEVEL	GROUNDWATER SAMPLE	SURFACE WATER SAMPLE	DISTRIBUTION SYSTEM SAMPLE	LIKELY CONTAMINATION SOURCE
DICLHOROETHANE	ppt	NS	55	ND	ND	Halogenated alkene; used as solvent
CHLORATE	ppb	800	53	94	49	Agricultural defoliant or desiccant; disinfection byproduct; and used in production of chloride dioxide
CHLORODIFLUOROMETHANE	ppt	NS	120	ND	ND	Chlorofluorocarbon; occurs as a gas, and used as a refrigerant, as a low temperature solvent, and in fluorocarbon resins, especially tetrafluoroethylene polymers
CHROMIUM (total)	ppb	NS	1.5	0.51	1.3	Naturally occurring element; used in making steel and other alloys
HEXAVALENT CHROMIUM	ppb	NS	1.6	0.3	1.4	Naturally occurring element; used in making steel and other alloys; chromium III or VI forms are used for chrome plating, dyes and pigments, leather tanning, and wood preservation
MOLYBDENUM	ppm	NS	3.6	3.4	3.6	Naturally occurring element found in ores and present in plants, animals, and bacteria; commonly used form molybdenum trioxide used as a chemical reagent
STRONTIUM	ppb	NS	300	270	310	Naturally occurring element; historically, commercial use of strontium has been in the faceplate glass of cathode ray tube televisions to block x-ray emissions
VANADIUM	ppb	50	4.3	1.4	4.5	Naturally-occurring; the primary PCA is steel manufacturing, also used in the manufacturing of phthalic anhydride, sulfuric acid, pesticides, dyes, inks, pigments, and other chemicals; has been found in association with hazardous waste sites.

2019 DISINFECTANT BY-PRODUCT RULE, PHASE 2 RESULTS

DISINFECTANT BYPRODUCTS STAGE 2 TTHM'S

TTHM MCL	0.080 PPM
MCL IN CCR UNITS	80 PPB

2018 TTHM RESULTS (PPB) STAGE 2					
LOCATION	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	ANNUAL AVERAGE
SITE 1	28	10	36	3.1	19.28
SITE 2	40	10	6.2	5.1	15.33
SITE 3	5.1	3.3	18	0.68	6.77
SITE 4	74	29	47	24	43.50
SITE 5	4.5	12	19	18	13.38
SITE 6	35	30	24	30	29.75
SITE 7	0.57	3.2	12	0	3.94
SITE 8	60	15	17	13	26.25
SITE 9	10	25	26	29	22.50

*Results are based on a quarterly sample point average.

TYPICAL SOURCE

Byproduct of drinking water disinfection

DISINFECTANT BYPRODUCTS STAGE 2 HAA5'S

HAA5 MCL	0.060 PPM
MCL IN CCR UNITS	60 PPB

2018 HAA5's RESULTS (PPB) STAGE 2					
LOCATION	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	ANNUAL AVERAGE
SITE 1	13	3	8.5	0	6.13
SITE 2	10	2.8	0	0	3.20
SITE 3	2	0	17	0	4.75
SITE 4	17	15	10	5.3	11.83
SITE 5	0	11	18	27	14.00
SITE 6	12	12	4.2	8.3	9.13
SITE 7	0	0	0	0	0.00
SITE 8	15	6	3.4	4	7.10
SITE 9	2	6.2	4.3	8	5.13

*Results are based on a quarterly sample point average.

TYPICAL SOURCE

Byproduct of drinking water disinfection

2019 CONSUMER CONFIDENCE REPORT

Certification Form

Water System Name: City of Upland
PWS I.D. No.: CA3610050
Water System Name: West End Consolidated Water Company
PWS I.D. No.: CA3610086

The water systems named above hereby confirm that its Consumer Confidence Report has been distributed to customers (and appropriate notices of availability have been given). Further, the systems certify that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primacy agency.

Certified By: Rosemary Hoerning, P.E., P.L.S., M.P.A.
City Manager
Phone No. (909) 931-4102 Date: July, 2020

"Good Faith" efforts were used to reach non-bill-paying consumers. Those efforts include the following methods as recommended by the primacy agency:

The City of Upland Consumer Confidence Report notification was mailed to customers by the City of Upland stating that the Consumer Confidence Report would be available online at www.uplandca.gov. Customers that do not have internet access were notified they could call Public Works at (909) 291-2930 or (909) 291-2933 to have a copy mailed to them.

You can depend on us to keep your drinking water safe, and you informed!

1370 N Benson Avenue, Upland, CA 91786
Phone: (909) 291-2930 • Website: www.uplandca.gov

APPENDIX G

PROJECT PERSONNEL QUALIFICATIONS

HILLMANN CONSULTING

Davis Tang

Industrial Hygienist

EDUCATION:

B.S. Environmental Science, University of Riverside, California

CERTIFICATIONS:

OSHA 40-Hour HAZWOPER Training

EPA/ AHERA Accredited Asbestos Building Inspector

EPA/ AHERA Certified Site Surveillance Technician

Lead-Related Construction Sampling Technician

YEARS OF EXPERIENCE:

With Hillmann: 3 years

Total: 7 years

PROFESSIONAL EXPERIENCE:

As an environmental technician in our Orange, CA office, Mr. Tang provides technical consulting for asbestos investigation and sampling, environmental site assessments, and mold investigations. Mr. Tang also conducts hazard evaluations, compliance inspections, and prepares technical reports recommending management plans, hazard remediation, and abatement cost estimates for government, manufacturing, healthcare, educational, and public utility clients.

Mr. Tang performs various inspections including industrial hygiene, indoor air quality, and microbial delineation according to OSHA and government regulations.

Mr. Tang is well-versed in the requirements of the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the National Institute for Occupational Safety and Health (NIOSH), and numerous other federal, state, and local regulations and guidelines which affect environmental health and safety.

Representative experience includes:

Warmington Residential, Various locations: Hillmann has been providing Warmington Residential with Phase I environmental site assessments involving multiple residential redevelopment projects. Mr. Tang is an Environmental Scientist and has been involved with providing site assessments of various Warmington projects.

CapRock Partners, Various locations: Hillmann has provided Phase I site assessments, hazardous materials surveys, asbestos surveys, and lead surveys for a variety of projects. Mr. Tang is an Environmental Scientist on this contract performing surveys and environmental site assessments.

Westfield – Environmental Program, Various locations: Since 2000, Hillmann has been providing an environmental program encompassing environmental health and safety, Phase I environmental site assessments, asbestos and lead surveys, air monitoring, bid administration and O&M programs, industrial hygiene and indoor air quality programs, and hazardous materials assessments on their mall properties throughout the county. Mr. Tang is an Environmental Scientist on this contract performing industrial hygiene services that include indoor air quality monitoring, Phase I environmental site assessments, asbestos and lead surveys.

Tishman Speyer Properties, Various locations: Hillmann has provided the complete environmental program for Tishman Speyer's properties since 1987. Our services include environmental health and safety, industrial hygiene, phase I environmental site assessments, asbestos surveys, air monitoring, bid administration, O&M programs and indoor air quality programs on various commercial, industrial and multi-family residential properties. Mr. Tang is an Environmental Scientist on this contract, conducting on-site environmental services including quarterly indoor air-quality testing and NPDES water quality testing.

CorePower Yoga, Various locations: CorePower Yoga has provided Hillmann with a variety of microbial investigative projects. Mr. Tang is an Environmental Scientist and has provided industrial hygiene services conducted microbial investigations at CorePower Yoga studios and prepared remediation plans.

J. Ryan Terwilliger

Operational Manager, West Coast

EDUCATION:

B.S. Environmental Science, University of Southern California, Los Angeles, CA

CERTIFICATION:

Cal-OSHA Certified Asbestos Consultant
CDPH Accredited Lead Inspector/Assessor/ Project Monitor

CA Certified Site Surveillance Technician

OSHA 40 - Hr HAZWOPER

YEARS OF EXPERIENCE:

With Hillmann: 4 years

Total: 8 years

PROFESSIONAL EXPERIENCE:

Mr. Terwilliger is responsible for business operations, fiscal management and field staff management for Hillmann's California Office. He also performs asbestos surveys and investigations to identify asbestos and lead materials associated with occupational hazards. He supervises work practices and controls in accordance with job specifications, current EPA, OSHA and State Regulations for Asbestos remediation projects in commercial, industrial and multi-family residential buildings. Mr. Terwilliger performs IAQ, mold and moisture investigations in commercial, industrial and residential facilities nationwide. He also performs awareness training for asbestos, lead and microbial agents. Mr. Terwilliger provides litigation support consultation.

Representative Experience Includes:

Tishman Speyer Properties, Various locations: Hillmann has provided the complete environmental program for Tishman Speyer's properties since 1987. Our services include environmental health and safety, industrial hygiene, phase I environmental site assessments, asbestos surveys, air monitoring, bid administration, O&M programs and indoor air quality programs on various commercial, industrial and multi-family residential properties. Mr. Terwilliger is an Environmental Scientist on this contract, conducting on-site environmental services including phase I site assessments and NPDES water quality testing.

Westfield – Environmental Program, Various locations: Since 2000, Hillmann has been providing an environmental program encompassing environmental health and safety, Phase I environmental site assessments, asbestos and lead surveys, air monitoring, bid administration and O&M programs, industrial hygiene and indoor air quality programs, and hazardous materials assessments on their mall properties throughout the county. Mr. Terwilliger is an Environmental Scientist on this contract performing industrial hygiene services that include indoor air quality monitoring, Phase I environmental site assessments, asbestos and lead surveys.

Brookfield Office Properties, Various sites, CA: Hillmann has been providing hazardous materials surveys, development abatement specifications, and managing the oversight activities during the abatement at various Brookfield owned sites throughout California. Mr. Terwilliger functions as a Project Manager for this contract.

California Department of Transportation, Central Valley and Northern CA: Hillmann has been performing asbestos and Lead-based Paint Surveys for the California Department of Transportation. Performed comprehensive asbestos containing materials and lead-based paint surveys of residential and commercial buildings that were slated for demolition and generated report of findings in order to aid the Department of Transportation (DOT) in facilitating the road improvement programs and building renovations throughout the

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Central Valley area. Also during the abatement of asbestos from DOT owned buildings, provided contractor oversight and air monitoring services for regulatory compliance.

Verizon, Various Sites, CA. Hillmann conducted hazardous materials surveys, development abatement specifications, and project monitoring during abatement at various Verizon owned sites throughout California. Mr. Terwilliger functioned as the Project Manager.

Public Storage, Los Angeles, CA: Hillman preformed comprehensive asbestos, lead-based paint and universal waste materials survey of commercial and industrial buildings throughout Southern California. Hazardous materials surveys were conducted prior to renovation for the storage units. Mr. Terwilliger developed abatement specifications and managed the abatement activities during the renovations of the buildings. He functioned as the Project Manager on this contract.

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David H. Rutherford

Quality Management Director

EDUCATION:

B.S. Environmental Sciences, Cook College, New Brunswick, NJ

CERTIFICATIONS:

40-hr HAZWOPER 29 CFR 1910.120

Certified Hazardous Materials Manager 1992-2003

10-hr OSHA Construction Safety & Health

Construction Procedures, Materials and Costs – a ten-week course at Rutgers Center for Continuing Professional Development

YEARS OF EXPERIENCE:

With Hillmann: 31 years

Total: 31 years

PROFESSIONAL EXPERIENCE:

Mr. Rutherford has currently functions as Hillman's Quality Management Director and has served as the Director of Due Diligence as well. He has more than 30 years of experience in the environmental consulting industry, and over 26 years in managing and performing environmental property assessments including USEPA and NJDEP Preliminary Assessments.

As the Quality Management Director, Mr. Rutherford is responsible for overseeing the quality of all environmental and due diligence services across the company, including development of standard protocols, report content/templates, and account management strategies. He has managed large national accounts for real estate due diligence services including a desktop review service that handled nearly 500 properties per year. Mr. Rutherford is also the program manager for Hillmann's NJDOH approved "Indoor Environmental Health Assessment of Child Care and Educational Facilities."

Additionally, Mr. Rutherford performs and/or manages Phase II Environmental Site Assessments (ESAs), Underground Storage Tank (UST) investigations/closures, Property Condition Assessments (PCA), Construction Monitoring inspections, Asbestos surveys, Asbestos Abatement Project Monitoring services, Indoor Air Quality (IAQ) surveys, NPDES Discharge Monitoring, Community Right-to-Know surveys, and Environmental Risk Analysis for compliance with the Sarbanes-Oxley act.

Representative experience includes:

Tishman Speyer Properties, various locations nationwide: Hillmann has provided the complete environmental program for Tishman Speyer's properties since 1987. Our services include phase I ESAs, asbestos surveys, air monitoring, bid administration, O&M programs, industrial hygiene, and indoor air quality programs. Mr. Rutherford is a Project Manager on this contract. This contract is ongoing.

Citigroup, various locations nationwide: Since 1995, Hillmann has provided the complete environmental program including phase I ESAs, asbestos and lead surveys, air monitoring, bid administration, O&M programs, industrial hygiene, indoor air quality programs, geology services, radon testing, and hazardous materials assessments. Mr. Rutherford is an Account Manager on this contract. This project is ongoing.

TD Bank, N.A., various locations: Hillmann has performed phase I ESAs at several properties on behalf of TD Bank, N.A. Mr. Rutherford manages the group that conducts the assessments for this contract, which is ongoing.

HSBC Bank, various locations nationwide/NYC Metro: Hillmann is providing the complete environmental program including phase I ESAs, asbestos surveys, air monitoring, bid administration, O&M programs, industrial hygiene, and indoor air quality programs. Mr. Rutherford is a Project Manager on this contract, which is ongoing.

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Peapack Gladstone Bank, various locations in NY, NJ, and PA: Hillmann has performed phase I ESAs at numerous properties on behalf of Peapack Gladstone Bank since 2013. Mr. Rutherford manages the staff that conducts the assessments for this contract, which is ongoing.

The Davis Companies, Norwalk, CT: On behalf of The Davis Companies, Hillmann provided an Advisory Report of analysis and opinion regarding the potential electromagnetic fields (EMF) health risks that may be associated with a newly constructed sub-station on an adjacent property.

Multi-Family Portfolio, New York, NY: Hillmann conducted environmental due diligence services and construction plan and cost review for a rehabilitation project of 45 low income multi-family apartment buildings in upper Manhattan. Mr. Rutherford coordinated and oversaw the completion of 45 phase I ESA reports and 5 phase II site investigations.

MBD Community Housing Corporation, Bronx, NY: Mr. Rutherford's staff has conducted environmental due diligence services for various multi-family apartment buildings located throughout New York City; including a portfolio of 11 buildings in Bronx, NY. Various projects have been completed between 2009 and 2016.

International Portfolio of Industrial Properties: Completed in 2012, Mr. Rutherford was the Project Manager for a multi-level environmental due diligence assessment for a portfolio of 113 light industrial properties located throughout the United States and Mexico.

Confidential client, various locations nationwide: Between 2008 and 2013, as a Project Manager, Mr. Rutherford was responsible for conducting multiple Risk Assessments. The purpose for conducting the assessments was to project a cost estimate for potential environmental liabilities associated with over 3,700 former drug store facilities in compliance with the Sarbanes-Oxley act.

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LIMITED PHASE II SUBSURFACE INVESTIGATION REPORT

1400 EAST ARROW HIGHWAY, UPLAND, CALIFORNIA

Prepared For:

Century Communities
4695 MacArthur Blvd, Suite 300
Newport Beach, CA 92660

Hillmann Project Number C3-8487
July 14, 2021

Written By:
Hillmann Consulting, LLC

Dan Louks
Professional Geologist 4883

PROFESSIONAL GEOLOGIST
DANIEL R. LOUKS
NO. 4883
EXP. NOV. 30, 2021
STATE OF CALIFORNIA

Your Property. Our Priority.
1745 W. Orangewood Avenue, Suite 201, Orange, CA 92868
Telephone (714) 634-9500 Fax: (714) 634-9507 Toll free: (800) 232-4326
www.HillmannConsulting.com

HILLMANN
CONSULTING

July 14, 2021

Brian Taylor
Director of Forward Planning
Century Communities
4695 MacArthur Blvd, Suite 300
Newport Beach, CA 92660

RE: Limited Phase II Subsurface Investigation Report
1400 East Arrow Highway
Upland, California
Hillmann Project Number: C3-8487

Dear Mr. Taylor:

Hillmann Consulting, LLC, is pleased to provide this Limited Phase II Subsurface Investigation Report prepared for the above referenced property.

This report is for the exclusive use of the entities named on the front cover, its affiliates, designates and assignees, rating agencies, prospective bond holders and bond holders, and no other party shall have any right to rely on any service provided by Hillmann Consulting, LLC, without prior written consent.

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

Very Truly Yours,
Hillmann Consulting, LLC

Brandon Clements
Partner; Western Regional Director

TABLE OF CONTENTS

1.0 INTRODUCTION / BACKGROUND 1
2.0 GEOLOGY/HYDROGEOLOGY 1
3.0 SITE INVESTIGATION 2
3.1 Laboratory Results 3
4.0 CONCLUSIONS AND RECOMMENDATIONS 3
5.0 LIMITATIONS 4

LIST OF TABLES

TABLE 1 - Summary of Soil Sampling Results
TABLE 1A - Summary of Heavy Metal Results

TABLE 2 - Summary of Soil Gas Sampling Results

LIST OF FIGURES

FIGURE 1 - Site Vicinity Map

FIGURE 2 - General Site Plan

LIST OF APPENDICES

APPENDIX A - Site Photos

APPENDIX B - Laboratory Reports

APPENDIX C - Drilling Logs

APPENDIX D - Soil Gas Monitoring Data

APPENDIX E – GPR Report

1.0 INTRODUCTION / BACKGROUND

Hillmann Consulting, LLC (Hillmann) conducted a Limited Phase II Subsurface Investigation at 1400 East Arrow Highway, Upland, California. The Property occupies 4.93 acres and is located on the south side of East Arrow Highway about 725 feet west of Grove Avenue in a mixed used commercial/residential area of Upland (**Figure 1**). The Property is developed with four structures and multiple equipment canopies and storage sheds. The Property is occupied by Arrow Truss Company, a wooden truss manufacturer. The Property is being considered for redevelopment into residential use.

In May 2021, Hillmann conducted a Phase I Environmental Site Assessment at the site. Records indicate the site formerly maintained two 1,000 gallon underground storage tanks (USTs) that were used to store gasoline and diesel. The USTs were removed in the 1980s but no documentation of soil sampling after removal was identified. In addition, a railroad spur transects the northern portion of the Property. Railroad spurs can often be associated with the use of pesticides for weed control, which may have accumulated in rail bed area. In addition, historical and current operations of various machinery associated with the sawmill equipment utilize various oils, lubricants, and transmission fluids, and have contributed to stained pavement throughout the Property. These concerns were identified as recognized environmental conditions that justified preliminary subsurface investigation. Results of this investigation are presented in Hillmann's *"Phase I Environmental Site Assessment Report"* dated May 24, 2021.

In June 2021, Hillmann completed a Limited Phase II Subsurface Investigation at the Property that included soil and soil gas sampling in targeted locations across the site. The objective of this work was to determine if the recognized environmental conditions caused significant subsurface contamination that might impact the proposed change to a more sensitive residential use. The current investigation is an independent assessment of the site that was constrained by time and cost factors as part of a self-directed effort. The investigation included installation of 14 soil borings, 10 of them completed as soil gas sampling probes in targeted locations as well as a limited ground penetrating radar (GPR) investigation in the former tank areas. This investigation was not intended to meet the more stringent requirements of a regulatory driven assessment.

2.0 GEOLOGY/HYDROGEOLOGY

Based on the drilling logs, shallow soils beneath the site consist primarily of silty and sand with varying fractions of gravel in the upper 17 feet of section, the maximum depth of exploration. Deeper drilling was prevented by gravel and cobbles creating an adverse drilling condition. Groundwater was not encountered during drilling at the site. Groundwater is not expected in the upper 100 feet in this area of San Bernardino County. Descriptions of the sediments encountered during drilling are presented in the drilling logs (**Appendix C**).

3.0 SITE INVESTIGATION

On June 26, 2021, Hillmann installed 10 soil borings (HB1-HB10) to total depths ranging from 5 to 15 feet below grade in targeted positions across the site. Four additional soil borings (HB11-HB14) were also installed along the railroad spur to 1 foot below grade for soil sampling. The borings were installed using a direct hydraulic push GeoProbe type drilling rig. The locations of the borings are indicated on **Figure 2**.

During drilling, a California Professional Geologist described the soil using the Unified Soil Classification System. Soil samples were obtained at select intervals from each boring and were preserved for analysis in the acetate sleeves that were retrieved from the soil sampling tool and sealed with Teflon tape and plastic end caps. The samples from borings HB1-HB10 (installed in targeted positions across the Property) were analyzed for select potential contaminants of concern including carbon chain hydrocarbons corresponding to gasoline, diesel fuel, and oil weights (C4-C12, C13-C22, and C23-C40 ranges, respectively) by EPA Method 8015M, VOC by EPA Method 8260B, and heavy metals by EPA Method 6010B. The samples from borings HB11-HB14 (railroad spur) were analyzed for OCP by EPA Method 8081A and heavy metals. The soil samples were analyzed by A&R Laboratories of Ontario, California.

Borings HB1-HB10 were completed as soil gas sampling probes SG1-SG10 with sampling tips installed near maximum depth (5-15 feet below grade). The soil gas sampling probes consists of a plastic micro-porous vapor implants that are approximately 2 inches long with a 0.5-inch outside diameter, connected to 0.25-inch outside diameter Nylaflow tubing that extended above the surface. The annulus around each vapor implant was backfilled with approximately 1 foot of screen-washed #3 sand. Six inches of dry bentonite was placed immediately above the sand pack, followed by one-foot of bentonite that was hydrated during placement. The bentonite was further sealed with hydrated bentonite to grade to provide a secure borehole seal. The probes were finished with gas-tight fittings at the surface pending vapor purging and sampling.

The soil gas sampling probes were allowed to equilibrate for at least 48 hours before collecting vapor samples. Prior to vapor sampling, shut-in and leak tests were conducted on the probes. The probe head was attached to the sampling train assembly of Nylaflow tubing, valves, and fittings and connected to a purge pump. The pump was used to evacuate the sealed system using an applied vacuum of 100 inches of water column (in. WC). The vacuum on each probe was monitored for 90 seconds with the sampling train system sealed. After the shut-in test was validated, the sampling train was leak tested. Liquid isopropyl alcohol was applied around all connections in the sampling train to evaluate whether the system was sealed from ambient air leaks. A detection of 10 times the reporting limit of this compound might suggest that ambient air leakage had occurred.

The purpose of purging is to remove stagnant air from the vapor sampling train to ensure representative samples are obtained. The probes were purged using an adjustable vacuum pump set at 200 mL/minute. During purging, the soil gas was monitored for VOC, oxygen, and carbon dioxide content using a Mini-Rae 2000 multi gas detector to ensure that non-atmospheric formation air was being sampled (**Appendix D**).

After purging three volumes through the system, vapor samples were collected from the probes on June 29, 2021. During sampling, the purge pump was operated at 200 mL/minute, and the vacuum was monitored to ensure it was below 100 in. WC. Vacuum applied below this level helps ensure chemical partitioning from pore water to soil gas and the stress on the air seals are both minimized. The samples were containerized in Tedlar bags which were delivered to the laboratory for analysis. Fresh tubing was used on each sampling train between holes. The soil gas samples were tested for VOC using EPA Method 8260B by A&R Laboratories of Ontario, California.

A limited GPR investigation was conducted in the areas of the former tanks by SoCal Locators in an attempt to determine whether any underground storage tanks were still present at the Property.

3.1 Laboratory Results

Results from soil sampling indicated just one of the 15 samples analyzed had detectable concentrations of petroleum hydrocarbons with 2.1 mg/Kg gasoline range hydrocarbons detected in sample HB7-1. The detected concentration was compared to the Regional Screening Levels (RSLs) for soil which are based on human health risk factors for residential and commercial settings and are commonly used as screening tools. This detection does not approach the most conservative residential screening level for petroleum hydrocarbons in soil (82 mg/Kg). The results from VOC analysis (UST samples) and OCP analysis (railroad spur) indicated none was detected. The results from heavy metal analysis indicated low concentrations of heavy metals, none greater than current residential screening levels. The soil sampling results are summarized in **Table 1**, and in **Table 1A** (heavy metals). The laboratory report from soil sampling is included in **Appendix B**.

Results from soil gas sampling indicated five samples had detectable VOC with very low concentrations of PCE and toluene detected. The maximum concentrations were 0.0067 ug/L for PCE in sample SG9, and 0.010 ug/L toluene in sample SG1. The detected concentrations were compared to the Regional Screening Levels (RSLs) for soil gas which are based on human health risk factors for residential and commercial settings and are commonly used as screening tools. The screening criteria uses defined indoor air concentrations based on human health risk factors that are modified using attenuation factors provided by EPA (0.03) and DTSC (0.002). DTSC policy on which attenuation factor to use is currently under review, but our understanding is that the current accepted screening levels for residential applications for PCE is 0.23 ug/L and for toluene is 155 ug/L. The more stringent screening levels if applied would be 0.015 ug/L for PCE and 10.33 ug/L for toluene. None of the detected concentrations approaches these very conservative screening criteria indicating no significant vapor intrusion threat for residential applications. These results are summarized in **Table 2**. The laboratory report from soil gas sampling is included in **Appendix B**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The subject site is operated by a wooden truss manufacturer that utilizes heavy equipment and machinery and formerly maintained USTs. In addition, the site maintains a railroad spur that transects the northern portion of the Property. The site is being considered for redevelopment

with residential use. Given these site features and the proposed change to a more sensitive use, a preliminary subsurface investigation was recommended.

In June 2021, Hillmann installed 14 soil borings, 10 of them completed as soil gas sampling probes in targeted locations across the site including immediately adjacent to the former UST, near heavy oil lubricated equipment zones and adjacent to a railroad spur along the northern portion of the Property. The results from soil sampling indicated one sample had insignificant concentrations of petroleum hydrocarbons with 2.1 ug/L gasoline-range hydrocarbons, well below the residential screening level of 82 mg/Kg for residential use. None of the soil samples had detectable concentrations of VOC or pesticides, and none had heavy metal concentrations greater than current residential screening levels. The results from soil gas sampling indicated 5 samples had very low concentrations of PCE or toluene, none greater than current or proposed residential screening levels, indicating no significant vapor intrusion threat.

A limited GPR investigation in the former tank areas indicated no evidence of USTs remaining at the Property.

Based on these results we recommend no further action.

5.0 LIMITATIONS

This Subsurface Investigation was performed in accordance with generally and currently accepted engineering practices and principles; however, the procedures and methodologies used in this investigation are not intended to meet all specific regulatory guidelines as this work was completed as a self-directed effort. Although the data in this report is indicative of subsurface conditions in areas investigated, no further conclusions regarding the absence or presence of subsurface contamination in other areas of the site should be construed or inferred other than those expressly stated in this report. The conclusions made are based on information obtained from field observations, independent laboratory analytical results, and from current and relevant Federal, State, regional, and local agencies.

TABLE 1
Summary of Soil Sampling Results (mg/Kg)

Sample ID	Heavy Metals Above Screening Levels	VOC	OCP	TPHg C4-C12	TPHd C13-C22	TPH-Oil C23-C40
Sampled June 26, 2021						
HB1-10	--	ND	--	ND<0.20	ND<10	ND<20
HB1-15	--	ND	--	ND<0.20	ND<10	ND<20
HB2-10	--	ND	--	ND<0.20	ND<10	ND<20
HB3-10	--	ND	--	ND<0.20	ND<10	ND<20
HB4-10	--	--	--	ND<0.20	ND<10	ND<20
HB5-1	None	--	--	ND<0.20	ND<10	ND<20
HB6-1	None	--	--	ND<0.20	ND<10	ND<20
HB7-1	None	--	--	2.1	ND<10	ND<20
HB8-1	None	--	--	ND<0.20	ND<10	ND<20
HB9-1	None	--	--	ND<0.20	ND<10	ND<20
HB10-1	None	--	--	--	--	--
HB11-1	None	--	ND	--	--	--
HB12-1	None	--	ND	--	--	--
HB13-1	None	--	ND	--	--	--
HB14-1	None	--	ND	--	--	--
Residential RSL	**--**	**--**	**--**	***82***	***82***	***82***
Commercial RSL	**--**	**--**	**--**	***420***	***420***	***420***

Notes: ND - Not Detected. EPA Regional Screening Levels (RSLs) are human health risk based screening levels used by EPA and DTSC in residential and commercial settings. The RSL levels for total petroleum hydrocarbons are divided into six non-descript categories that depend on the relative speciation of aromatic and aliphatic hydrocarbons in the source contaminant. The most conservative screening level for petroleum hydrocarbons used. Please refer to lab report for complete results.

TABLE 1A
Summary of Heavy Metal Results (mg/Kg)

Sample ID	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
HB5-1	ND<1	163	ND<0.5	26.6	8.75	15.4	1.83	10.0	74.4	44.9
HB6-1	ND<1	80.4	ND<0.5	14.9	4.75	7.26	1.03	5.01	40.6	23.0
HB7-1	ND<1	213	ND<0.5	23.7	7.59	26.2	ND<0.5	8.05	57.6	31.1
HB8-1	ND<1	154	ND<0.5	26.3	8.12	14.5	1.77	9.94	70.8	14.8
HB9-1	ND<1	143	ND<0.5	23.3	7.82	13.1	1.61	8.70	67.8	39.9
HB10-1	ND<1	40.3	ND<0.5	16.9	2.43	5.05	1.46	3.38	19.2	19.7
HB11-1	ND<1	119	ND<0.5	22.1	6.14	15.3	3.50	8.82	51.0	53.9
HB12-1	ND<1	56.3	ND<0.5	10.3	3.09	5.15	1.12	3.70	28.8	20.6
HB13-1	ND<1	67.9	ND<0.5	14.6	4.18	8.24	1.70	5.12	34.5	45.2
HB14-1	ND<1	134	ND<0.5	26.2	7.87	13.5	1.49	9.30	67.9	42.1
Residential RSL	***0.11***	***15,000***	***5.2****	***36,000***	***23***	***3,100***	***80****	***490****	***390****	***23,000***
Industrial RSL	***0.36***	***220,000***	***7.3****	***170,000***	***350***	***47,000***	***320****	***3,100****	***1,000****	***350,000***
DTSC Bkgrnd	***12***	*--*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	*--*

Notes: Some samples had detectable concentrations of molybdenum (maximum of 3.15 mg/Kg) or antimony (maximum of 1.30 mg/Kg), none above residential screening levels. ND - Not Detected. EPA Regional Screening Levels (RSLs) are human health risk based screening levels used by EPA and DTSC in residential and commercial settings. DTSC Background Concentration is based on statistical study of sites throughout southern California. This concentration may be used as a screening level for anthropogenic and naturally occurring levels of arsenic in soil in southern California. - Values modified by DTSC HERO Note 3. Please refer to lab report for complete results.*

TABLE 2
Summary of Soil Gas Sampling Results (ug/L)

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	TCE	PCE	Other VOC
Sampled June 29, 2021							
SG1-15	ND<0.005	0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
SG2-10	ND<0.005	0.0073	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
SG3-10	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
SG4-8	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
SG5-5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
SG6-5	ND<0.005	0.0056	ND<0.005	ND<0.005	ND<0.005	0.005	ND
SG7-5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
SG8-5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
SG9-5	ND<0.005	0.0067	ND<0.005	ND<0.005	ND<0.005	0.0067	ND
SG10-5	ND<0.005	0.0057	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
Residential RSL AF=0.03	***0.003****	***10.33****	***0.037***	***3.33***	***0.016***	***0.015****	*--*
Residential RSL AF=0.002	***0.0485****	***155****	***0.55***	***50***	***0.24***	***0.23****	*--*

*Notes: ND - Not Detected. EPA Regional Screening Levels (RSLs) are human health risk based screening levels used by EPA and DTSC to determine Health Risk in residential and commercial settings. *-Values modified for California by DTSC HERO Note 3. Screening levels for soil gas calculated using indoor air values and attenuation factor provided by EPA (0.03) and DTSC (0.002). Please refer to lab report for complete results.*

FIGURES

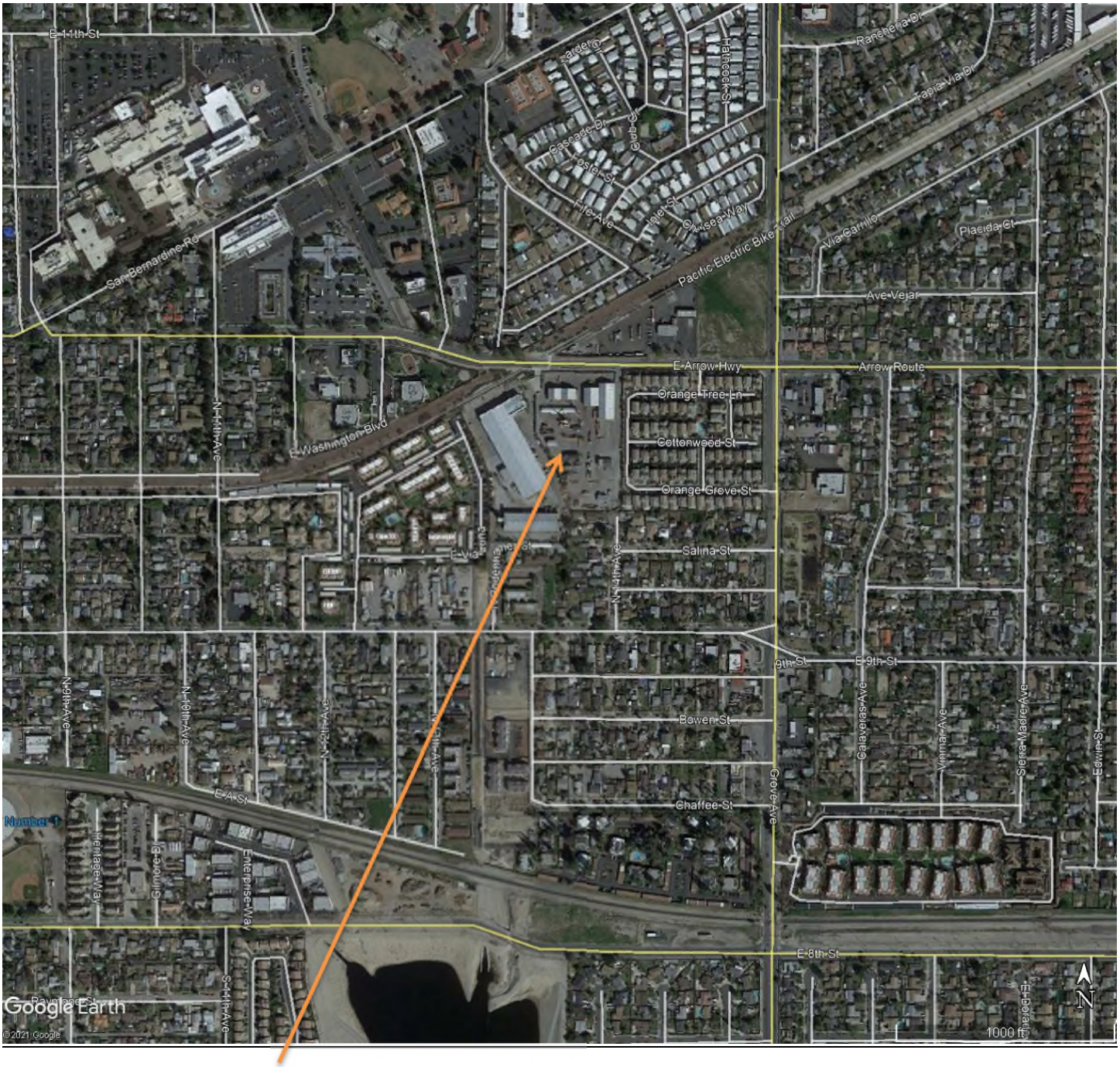


FIGURE 1

SITE VICINITY MAP
COMMERCIAL PROPERTY
1400 East Arrow Highway
Upland, California

HILLMANN
CONSULTING

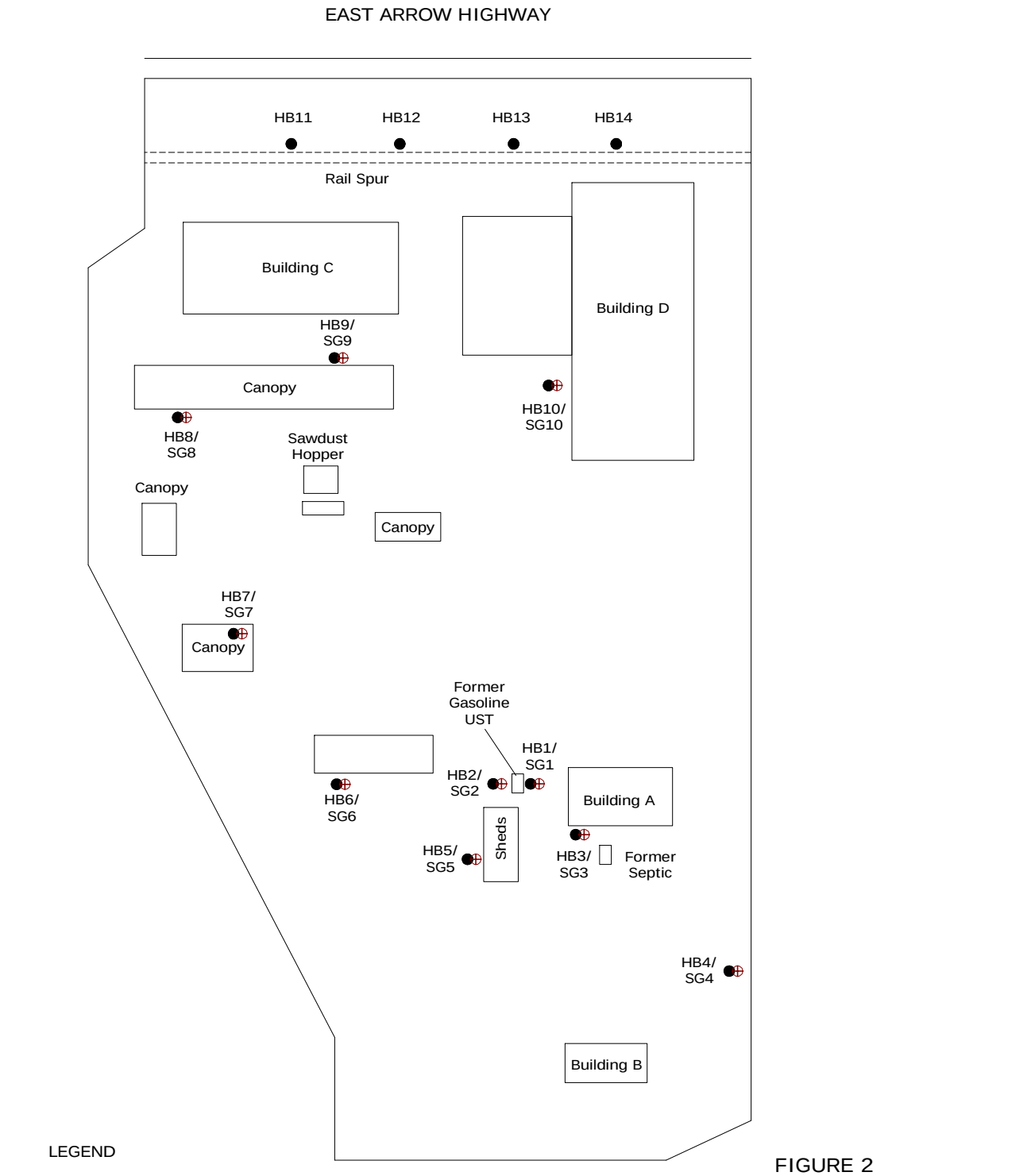


FIGURE 2
GENERAL SITE PLAN
COMMERCIAL PROPERTY
1400 East Arrow Highway
Upland, California

HILLMANN CONSULTING

N
W E
S

APPROXIMATE SCALE IN FEET

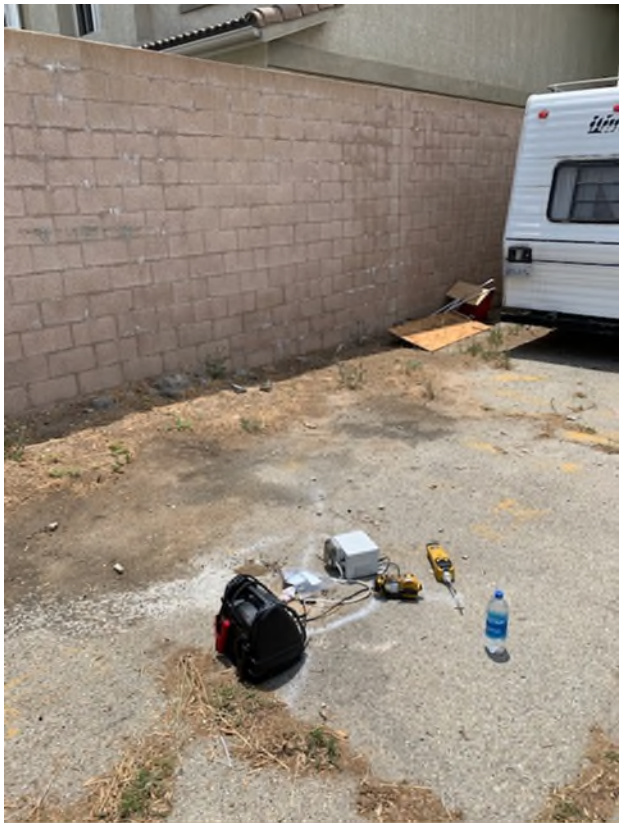
0 90 180

APPENDIX A
Site Photos

SG1

SG2

SG3



SG4

SG5

SG6

SG7

SG8

SG9

SG10

APPENDIX B
Laboratory Reports

A & R Laboratories, Inc.

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LA City#	10261
ELAP#'s	2789
	2790
	2122

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 06/30/2021 19:05:28
Laboratory Job No. (Certificate of Analysis No.)	2106-00241
Project Name / No.	ARROW TRUSS
Dates Sampled (from/to)	06/26/21 To 06/26/21
Dates Received (from/to)	06/26/21 To 06/26/21
Dates Reported (from/to)	06/30/21 To 6/30/2021
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Result	Qual	Units	RL
HB7-1.0	C4-C12	**2.1**		mg/Kg	0.20				

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CERTIFICATE OF ANALYSIS

2106-00241

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **HB1-10**					Date & Time Sampled:		06/26/21 @	8:20
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	145		%REC	EPA 8015M		50-150	06/29/21	SR
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		06/29/21	SR
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	06/29/21	SR
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	06/29/21	SR
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	06/29/21	SR
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 001 **HB1-10** Date & Time Sampled: 06/26/21 @ 8:20
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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Invoice No.	92202
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Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **HB1-10**					Date & Time Sampled:		06/26/21 @	8:20
Sample Matrix: **Soil**								
.....continued								
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
[VOC Surrogates]								
Dibromofluoromethane	116		%REC	EPA 8260B		70-130	06/29/21	SR
Toluene-D8	113		%REC	EPA 8260B		70-130	06/29/21	SR
Bromofluorobenzene	85		%REC	EPA 8260B		70-130	06/29/21	SR
Sample: 002 **HB1-15**					Date & Time Sampled:		06/26/21 @	8:30
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00241

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 **HB1-15**					Date & Time Sampled:		06/26/21 @	8:30
Sample Matrix: **Soil**								
.....continued								
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	135		%REC	EPA 8015M		50-150	06/29/21	SR
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		06/29/21	SR
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	06/29/21	SR
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	06/29/21	SR
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	06/29/21	SR
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 002 **HB1-15** Date & Time Sampled: 06/26/21 @ 8:30
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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2106-00241

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DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 **HB1-15**					Date & Time Sampled:		06/26/21 @	8:30
Sample Matrix: **Soil**								
.....continued								
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
[VOC Surrogates]								
Dibromofluoromethane	123		%REC	EPA 8260B		70-130	06/29/21	SR
Toluene-D8	113		%REC	EPA 8260B		70-130	06/29/21	SR
Bromofluorobenzene	114		%REC	EPA 8260B		70-130	06/29/21	SR
Sample: 003 **HB2-10**					Date & Time Sampled:		06/26/21 @	9:10
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	163		%REC	EPA 8015M		50-150	06/29/21	SR
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		06/29/21	SR

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Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 003 **HB2-10** Date & Time Sampled: 06/26/21 @ 9:10
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	06/29/21	SR
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	06/29/21	SR
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	06/29/21	SR
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 003 **HB2-10** Date & Time Sampled: 06/26/21 @ 9:10
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00241

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 **HB2-10**					Date & Time Sampled:		06/26/21 @	9:10
Sample Matrix: **Soil**								
.....continued								
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
[VOC Surrogates]								
Dibromofluoromethane	121		%REC	EPA 8260B		70-130	06/29/21	SR
Toluene-D8	115		%REC	EPA 8260B		70-130	06/29/21	SR
Bromofluorobenzene	117		%REC	EPA 8260B		70-130	06/29/21	SR
Sample: 004 **HB3-10**					Date & Time Sampled:		06/26/21 @	9:40
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	169		%REC	EPA 8015M		50-150	06/29/21	SR
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		06/29/21	SR
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	06/29/21	SR
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	06/29/21	SR
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 004 **HB3-10** Date & Time Sampled: 06/26/21 @ 9:40
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	06/29/21	SR
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	06/29/21	SR
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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2106-00241

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DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 004 **HB3-10** Date & Time Sampled: 06/26/21 @ 9:40
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR

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Project: ARROW TRUSS

Date Reported 06/30/21
Date Received 06/26/21
Invoice No. 92202
Cust # G073
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 **HB3-10**					Date & Time Sampled:		06/26/21 @	9:40
Sample Matrix: **Soil**								
.....continued								
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	06/29/21	SR
[VOC Surrogates]								
Dibromofluoromethane	123		%REC	EPA 8260B		70-130	06/29/21	SR
Toluene-D8	113		%REC	EPA 8260B		70-130	06/29/21	SR
Bromofluorobenzene	115		%REC	EPA 8260B		70-130	06/29/21	SR
Sample: 005 **HB4-10**					Date & Time Sampled:		06/26/21 @	10:30
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	162		%REC	EPA 8015M		50-150	06/29/21	SR
Sample: 006 **HB5-1.0**					Date & Time Sampled:		06/26/21 @	10:45
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	141		%REC	EPA 8015M		50-150	06/29/21	SR
[Metals Title 22 no Hg]								

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Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 **HB5-1.0**					Date & Time Sampled:		06/26/21 @	10:45
Sample Matrix: **Soil**								
.....continued								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	**1.30**		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**163**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**26.6**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**8.75**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**15.4**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.83**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**10.0**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**74.4**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**44.9**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
Sample: 007 **HB6-1.0**					Date & Time Sampled:		06/26/21 @	11:00
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								

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CERTIFICATE OF ANALYSIS

2106-00241

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **HB6-1.0**					Date & Time Sampled:		06/26/21 @	11:00
Sample Matrix: **Soil**								
.....continued								
o-Terphenyl (OTP)	179		%REC	EPA 8015M		50-150	06/29/21	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**80.4**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**14.9**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**4.75**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**7.26**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.03**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**5.01**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**40.6**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**23.0**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
Sample: 008 **HB7-1.0**					Date & Time Sampled:		06/26/21 @	11:15
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	**2.1**		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR

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2106-00241

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 **HB7-1.0**					Date & Time Sampled:		06/26/21 @	11:15
Sample Matrix: **Soil**								
.....continued								
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	149		%REC	EPA 8015M		50-150	06/29/21	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	**1.14**		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**213**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**23.7**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**7.59**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**26.2**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	**1.22**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**8.05**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**57.6**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**31.1**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
Sample: 009 **HB8-1.0**					Date & Time Sampled:		06/26/21 @	11:30
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								

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Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 **HB8-1.0**					Date & Time Sampled:		06/26/21 @	11:30
Sample Matrix: **Soil**								
.....continued								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	117		%REC	EPA 8015M		50-150	06/29/21	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	**1.23**		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**154**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**26.3**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**8.12**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**14.5**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.77**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**9.94**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**70.8**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**14.8**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
Sample: 010 **HB9-1.0**					Date & Time Sampled:		06/26/21 @	11:45
Sample Matrix: **Soil**								
[TPH Gasoline (C4-C12)]								
Closed System P&T TPHg Soil	Complete			EPA 5035	1.0		06/29/21	SR

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ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 **HB9-1.0**					Date & Time Sampled:		06/26/21 @	11:45
Sample Matrix: **Soil**								
.....continued								
C4-C12	<0.20		mg/Kg	LUFT GC/MS	1.0	0.20	06/29/21	SR
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		06/28/21	SR
C13-C22	<10		mg/Kg	EPA 8015M	1.0	10	06/29/21	SR
C23-C40	<20		mg/Kg	EPA 8015M	1.0	20	06/29/21	SR
[Surrogate]								
o-Terphenyl (OTP)	103		%REC	EPA 8015M		50-150	06/29/21	SR
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**143**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**23.3**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**7.82**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**13.1**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.61**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**8.70**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**67.8**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**39.9**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
Sample: 011 **HB10-1.0**					Date & Time Sampled:		06/26/21 @	12:00
Sample Matrix: **Soil**								

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Date Reported	06/30/21
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Invoice No.	92202
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Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 011 **HB10-1.0**					Date & Time Sampled:		06/26/21 @	12:00
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**40.3**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**16.9**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**2.43**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**5.05**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.46**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	**3.15**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**3.38**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**19.2**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**19.7**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
Sample: 012 **HB11-1**					Date & Time Sampled:		06/26/21 @	8:20
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**119**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**22.1**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB

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Sample: 012 **HB11-1** Date & Time Sampled: 06/26/21 @ 8:20
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Cobalt	**6.14**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**15.3**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**3.50**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	**0.614**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**8.82**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**51.0**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**53.9**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/28/21	SR
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR

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CERTIFICATE OF ANALYSIS

2106-00241

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 **HB11-1**					Date & Time Sampled:		06/26/21 @	8:20
Sample Matrix: **Soil**								
.....continued								
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/28/21	SR
[Surrogates]								
Tetrachloro-m-xylene	106		%REC	EPA 8081A/8082		50-150	06/28/21	SR
Decachlorobiphenyl	99		%REC	EPA 8081A/8082		50-150	06/28/21	SR
Sample: 013 **HB12-1**					Date & Time Sampled:		06/26/21 @	12:45
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**56.3**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**10.3**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**3.09**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**5.15**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.12**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**3.70**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**28.8**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**20.6**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ

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2106-00241

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 **HB12-1**					Date & Time Sampled:		06/26/21 @	12:45
Sample Matrix: **Soil**								
.....continued								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/28/21	SR
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/28/21	SR
[Surrogates]								
Tetrachloro-m-xylene	100		%REC	EPA 8081A/8082		50-150	06/28/21	SR
Decachlorobiphenyl	105		%REC	EPA 8081A/8082		50-150	06/28/21	SR
Sample: 014 **HB13-1**					Date & Time Sampled:		06/26/21 @	12:35
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB

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Project: ARROW TRUSS

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Invoice No.	92202
Cust #	G073
Permit Number	
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Sample: 014 **HB13-1** Date & Time Sampled: 06/26/21 @ 12:35
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**67.9**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**14.6**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**4.18**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**8.24**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.70**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	**0.590**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**5.12**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Vanadium	**34.5**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**45.2**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/28/21	SR
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR

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SUITE #110
ORANGE, CA

Project: ARROW TRUSS

Date Reported	06/30/21
Date Received	06/26/21
Invoice No.	92202
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 **HB13-1**					Date & Time Sampled:		06/26/21 @	12:35
Sample Matrix: **Soil**								
.....continued								
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/28/21	SR
[Surrogates]								
Tetrachloro-m-xylene	101		%REC	EPA 8081A/8082		50-150	06/28/21	SR
Decachlorobiphenyl	96		%REC	EPA 8081A/8082		50-150	06/28/21	SR
Sample: 015 **HB14-1**					Date & Time Sampled:		06/26/21 @	12:25
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		06/30/21	TLB
Antimony	**1.06**		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Barium	**134**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Chromium	**26.2**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Cobalt	**7.87**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Copper	**13.5**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Lead	**1.49**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Molybdenum	**0.603**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Nickel	**9.30**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	06/30/21	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 **HB14-1**					Date & Time Sampled:		06/26/21 @	12:25
Sample Matrix: **Soil**								
.....continued								
Vanadium	**67.9**		mg/Kg	EPA 6010B	1.0	0.500	06/30/21	TLB
Zinc	**42.1**		mg/Kg	EPA 6010B	1.0	5.00	06/30/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		06/28/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	06/28/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/28/21	SR
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/28/21	SR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/28/21	SR
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/28/21	SR
[Surrogates]								
Tetrachloro-m-xylene	121		%REC	EPA 8081A/8082		50-150	06/28/21	SR
Decachlorobiphenyl	103		%REC	EPA 8081A/8082		50-150	06/28/21	SR

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Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING
ORANGE, CA

2106-00241

Date Reported	**06/30/2021**
Date Received	**06/26/2021**
Date Sampled	**06/26/2021**
Invoice No.	**92202**
Customer #	**G073**
Customer P.O.	

Project: ARROW TRUSS

Method # EPA 6010B
QC Reference # 97066 **Date Analyzed:** 6/30/2021 **Technician:** TLB
Samples 006 007 008 009 010 011 012 013 014 015

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	101	101	0.0	95	96	1.3
Arsenic	101	101	0.4	94	96	1.2
Barium	101	103	2.7	62	48	1.4
Beryllium	101	103	2.7	112	112	0.0
Cadmium	100	100	0.1	85	85	0.8
Chromium	100	102	2.7	104	103	0.7
Cobalt	100	101	0.5	84	85	0.8
Copper	102	104	1.9	106	107	0.6
Lead	100	101	0.5	76	79	1.0
Molybdenum	101	101	0.0	96	97	0.7
Nickel	100	100	0.2	83	84	0.6
Selenium	100	101	1.1	81	80	1.0
Silver	101	102	1.0	87	88	0.9
Thallium	100	101	0.9	94	87	4.1
Vanadium	101	102	1.0	100	101	0.6
Zinc	100	100	0.2	79	81	0.8

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

Method # EPA 7471A
QC Reference # 97003 **Date Analyzed:** 6/28/2021 **Technician:** KZ
Samples 006 007 008 009 010 011 012 013 014 015

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	88	91	3	85	94	9

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

Method # EPA 8015M
QC Reference # 97035 **Date Analyzed:** 6/29/2021 **Technician:** SR
Samples 001 002 003 004 005 006 007 008 009 010

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
C13-C22	121	119	122	3

Control Ranges

LCS %REC	SPIKE %RPD
70 - 130	0 - 25

Method # EPA 8081A
QC Reference # 97037 **Date Analyzed:** 6/28/2021 **Technician:** SR
Samples 012 013 014 015

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QUALITY CONTROL DATA REPORT

2106-00241

HILLMANN CONSULTING

Date Reported 06/30/2021
Date Received 06/26/2021
Date Sampled 06/26/2021

Project: ARROW TRUSS

Method # EPA 8081A
QC Reference # 97037 **Date Analyzed:** 6/28/2021 **Technician:** SR
Samples 012 013 014 015

Results

	LCS %REC	LCS %DUP	LCS %RPD
4,4'-DDT	108	112	4
Aldrin	121	127	6
Dieldrin	116	119	3
Endrin	119	127	8
gamma-BHC	114	119	5
Heptachlor	96	89	7

Control Ranges

LCS %REC	LCS %RPD
50 - 130	0 - 30
50 - 140	0 - 30
70 - 130	0 - 30
70 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

Method # EPA 8081A/8082
QC Reference # 97037 **Date Analyzed:** 6/28/2021 **Technician:** SR
Samples 012 013 014 015

No QC recoveries reported.

Method # EPA 8260B
QC Reference # 97032 **Date Analyzed:** 6/29/2021 **Technician:** SR
Samples 001 002 003 004

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
1,1-Dichloroethene	82	82	85	3
Benzene	123	131	131	0
Chlorobenzene	130	132	132	0
Toluene	125	130	129	1
Trichloroethene	124	129	127	2

Control Ranges

LCS %REC	SPIKE %RPD
50 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

Method # LUFT GC/MS
QC Reference # 97031 **Date Analyzed:** 6/29/2021 **Technician:** SR
Samples 001 002 003 004 005 006 007 008 009 010

Results

	LCS %REC	LCS %DUP	LCS %RPD
C4-C12	92	89	3

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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QUALITY CONTROL DATA REPORT

2106-00241

HILLMANN CONSULTING

Date Reported	**06/30/2021**
Date Received	**06/26/2021**
Date Sampled	**06/26/2021**

Project: ARROW TRUSS

ARL

A & R Laboratories
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CHAIN OF CUSTODY

A & R Work Order #: 2106-241

Page 1 of 1

Client Name: HILLMAN CONSULTING
E-mail: Dan@Qsaengineering.net
Address: 1745 W. ORANGEWOOD AVE, Suite 110, Orange
Report Attention:
Phone #: (714)206-3916
Fax: #
Sampled By: DAN LOVE
Project No./ Name: ARROW HWY
Project Site: 1400 EAST ARROW HWY

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Remarks
1	HB1-10	6/26/21	8:20	SOIL	ICE	ACETATE	X						X			
2	HB1-15		8:30				X						X			
3	HB2-10		9:50				X						X			
4	HB3-10		9:40				X						X			
5	HB4-10		10:30				X						X			
6	HB5-1.0		10:45										X	X		
7	HB6-1.0		11:00										X	X		
8	HB7-1.0		11:15										X	X		
9	HB8-1.0		11:30										X	X		
10	HB9-1.0		11:45										X	X		
11	HB10-1.0		12:00											X		
12	HB11-1		12:15								X			X		
13	HB12-1		12:45								X			X		
14	HB13-1		12:35								X			X		
15	HB14-1		12:25								X			X		

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Hillman	6/26/21	13:30		ARL	6/26/21	13:30
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product

Preservative Code: IC=Ice, HC=HCl, HN=HNO_3, SH=NaOH, ST=$Na_2S_2O_3$, HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

Sample Acceptance Checklist

CLIENT: Hillmann Consulting WORK ORDER NUMBER: 2106-241

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 3.5°c

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler	☐	Present and Intact	☐	Present and Not Intact	☒	Not Present
Sample(s)	☐	Present and Intact	☐	Present and Not Intact	☒	Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?			✓
Did all bottle labels agree with COC? (ID, dates and times)			
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?	~~✓~~		✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: _____ Date: 6/26/21

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 06/30/2021 10:27:43
Laboratory Job No. (Certificate of Analysis No.)	2106-00253
Project Name / No.	ARROW TRUST / 1400 E. ARROW HWY, UPLAND
Dates Sampled (from/to)	06/29/21 To 06/29/21
Dates Received (from/to)	06/29/21 To 06/29/21
Dates Reported (from/to)	06/30/21 To 6/30/2021
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
SG1-15	Toluene	**0.010**		µg/L	0.0050	SG2-10	Toluene	**0.0073**		µg/L	0.0050
SG6-5	Tetrachloroethene	**0.0050**		µg/L	0.0050	SG6-5	Toluene	**0.0056**		µg/L	0.0050
SG9-5	Tetrachloroethene	**0.0067**		µg/L	0.0050	SG9-5	Toluene	**0.0067**		µg/L	0.0050
SG10-5	Toluene	**0.0057**		µg/L	0.0050						

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 001 **SG1-15** Date & Time Sampled: 06/29/21 @ 12:15
Sample Matrix: **Soil Vapor**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 001 **SG1-15** Date & Time Sampled: 06/29/21 @ 12:15
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	**0.010**		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	99		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	108		%REC	EPA TO-15		70-130	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **SG1-15** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	12:15
.....continued								
Dibromofluoromethane	93		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 002 **SG2-10** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	12:30
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 002 **SG2-10** Date & Time Sampled: 06/29/21 @ 12:30
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	**0.0073**		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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2106-00253

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SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 **SG2-10**					Date & Time Sampled:		06/29/21 @	12:30
Sample Matrix: **Soil Vapor**								
.....continued								
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	99		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	105		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	94		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 003 **SG3-10**					Date & Time Sampled:		06/29/21 @	12:45
Sample Matrix: **Soil Vapor**								
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 003 **SG3-10** Date & Time Sampled: 06/29/21 @ 12:45
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 **SG3-10** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @ 12:45	
.....continued								
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	94		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	103		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	88		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 004 **SG4-8** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @ 13:00	
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 004 **SG4-8** Date & Time Sampled: 06/29/21 @ 13:00
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 **SG4-8** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @ 13:00	
.....continued								
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	97		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	107		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	87		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 005 **SG5-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @ 13:15	
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 005 **SG5-5** Date & Time Sampled: 06/29/21 @ 13:15
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 **SG5-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	13:15
.....continued								
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	89		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	103		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	88		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 006 **SG6-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	13:30
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 006 **SG6-5** Date & Time Sampled: 06/29/21 @ 13:30
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 **SG6-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	13:30
.....continued								
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	**0.0050**		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	**0.0056**		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	88		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	105		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	90		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 007 **SG7-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	13:30
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 007 **SG7-5** Date & Time Sampled: 06/29/21 @ 13:30
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **SG7-5**					Date & Time Sampled:		06/29/21 @	13:30
Sample Matrix: **Soil Vapor**								
.....continued								
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	94		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	104		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	88		%REC	EPA TO-15		70-130	06/29/21	SR

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Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 008 **SG8-5** Date & Time Sampled: 06/29/21 @ 14:00
Sample Matrix: **Soil Vapor**

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 008 **SG8-5** Date & Time Sampled: 06/29/21 @ 14:00
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	94		%REC	EPA TO-15		70-130	06/29/21	SR

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CERTIFICATE OF ANALYSIS

2106-00253

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE # 110
ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 **SG8-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	14:00
.....continued								
Toluene-D8	104		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	88		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 009 **SG9-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	14:15
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 009 **SG9-5** Date & Time Sampled: 06/29/21 @ 14:15
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrachloroethene	**0.0067**		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	**0.0067**		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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ORANGE, CA 92868

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Date Reported	06/30/21
Date Received	06/29/21
Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 **SG9-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	14:15
.....continued								
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	93		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	106		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	92		%REC	EPA TO-15		70-130	06/29/21	SR
Sample: 010 **SG10-5** Sample Matrix: **Soil Vapor**					Date & Time Sampled:		06/29/21 @	14:30
[TOXIC ORGANICS IN AIR]								
1,1,1-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2,2-Tetrachloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorotrifluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1,2-Trichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,1-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2,4-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dibromoethane (EDB)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,2-Dichloropropane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorotetrafluoroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3,5-Trimethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Butadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,3-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dichlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
1,4-Dioxane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
2-Butanone (MEK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
2-Hexanone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR

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Invoice No.	92179
Cust #	G073
Permit Number	
Customer P.O.	

Sample: 010 **SG10-5** Date & Time Sampled: 06/29/21 @ 14:30
Sample Matrix: **Soil Vapor**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Isopropanol (IPA)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Ethyltoluene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
4-Methyl-2-Pentanone (MIBK)	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Acetone	<0.050		µg/L	EPA TO-15	1.0	0.050	06/29/21	SR
Benzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Benzyl chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromodichloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromoform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromomethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Disulfide	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Carbon Tetrachloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chlorobenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloroform	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Chloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
cis-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Cyclohexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dibromochloromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Dichlorodifluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Ethylbenzene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Heptane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexachlorobutadiene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Hexane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
m,p-Xylenes	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methyl-t-butyl Ether (MtBE)	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Methylene Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
o-Xylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Propylene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Styrene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR

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Invoice No.	92179
Cust #	G073
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Customer P.O.	

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 010 **SG10-5**					Date & Time Sampled:		06/29/21 @	14:30
Sample Matrix: **Soil Vapor**								
.....continued								
Tetrachloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Tetrahydrofuran	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Toluene	**0.0057**		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,2-Dichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
trans-1,3-Dichloropropene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichloroethene	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Trichlorofluoromethane	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl acetate	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Vinyl Chloride	<0.0050		µg/L	EPA TO-15	1.0	0.0050	06/29/21	SR
Bromofluorobenzene	95		%REC	EPA TO-15		70-130	06/29/21	SR
Toluene-D8	105		%REC	EPA TO-15		70-130	06/29/21	SR
Dibromofluoromethane	90		%REC	EPA TO-15		70-130	06/29/21	SR

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

A & R Laboratories, Inc.

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ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING
ORANGE, CA 92868

2106-00253

Date Reported	**06/30/2021**
Date Received	**06/29/2021**
Date Sampled	**06/29/2021**
Invoice No.	**92179**
Customer #	**G073**
Customer P.O.	

Project: ARROW TRUST / 1400 E. ARROW HWY, UPLAND

Method # EPA TO-15
QC Reference # 97049 **Date Analyzed:** 6/29/2021 **Technician:** SR
Samples 001 002 003 004 005 006 007 008 009 010

Results	LCS %REC	Control Ranges LCS %REC
1,1-Dichloroethene	115	70 - 130
Benzene	130	70 - 130
Chlorobenzene	125	70 - 130
Toluene	130	70 - 130
Trichloroethene	130	70 - 130

No method blank results were above reporting limit

Bromofluorobenzene %REC

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

RUSH

A & R Work Order #: 2106-253

Page 1 of 1

Client Name: HILLMAN CONSULTING
E-mail: Dan@gsaengineering.net
Address: 1745 ORANGEWOOD AVE #110 ORANGE
Report Attention: BRANDON C
Phone # 714-206-3916
Fax: #
Sampled By: DL NM
Project No./ Name: ARROW TRUST
Project Site: 1400 E ARROW HWY UPLAND

☐ Chilled
☒ Intact
☐ Seal

Turn Around Time Requested
☑ Rush 8 12 24 48 Hours
☐ Normal
6 HOUR TURNAROUND THANKS

Analyses Requested

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli		TO15					Remarks
1	SG1-15	6-29-21	12:15	VAPOR	NA	1											X					
2	SG2-10		12:30			1											X					
3	SG3-10		12:45			1											X					
4	SG4-8		13:00			1											X					
5	SG5-5		13:15			1											X					
6	SG6-5		13:30			1											X					
7	SG7-5		13:45			1											X					
8	SG8-5		14:00			1											X					
9	SG9-5		14:15			1											X					
10	SG10-5	↓	14:30	↓	↓	1											X					

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Dan Rhodes		6-29-21	14:45		A+R	6 29 21	1445
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product

Preservative Code: IC=Ice, HC=HCl, HN=HNO_3, SH=NaOH, ST=$Na_2S_2O_3$, HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

APPENDIX C
Drilling Logs

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB1

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 17 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5							
10			0.0	HB1-10		SW	Gravelly SAND; gray, very fine to coarse grained, poorly sorted, dry no odor.
15			0.0	HB1-15		SW	SAND; gray, very fine to fine grained, poorly sorted, dry no odor.
17							Refusal at 17 feet. Gravel. No sample recovery.
							Seal with bentonite to 15 feet. Install Probe SG1 at 15 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB2

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 13 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5							
10			0.0	HB2-10		SW	Gravelly SAND; brown, very fine to medium grained, poorly sorted, dry no odor.
13							Refusal at 13 feet. No sample recovery. Cobbles.
							Seal with bentonite to 10 feet. Install Probe SG2 at 10 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB3

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 10 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5							
10			0.0	HB3-10		SW	SAND; gray, very fine to fine grained, poorly sorted, some gravel, dry no odor. Install Probe SG3 at 10 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB4

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 10 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
5							
10			0.0	HB4-10		SW	SAND; gray, very fine to coarse grained, poorly sorted, some gravel, dry no odor. Refusal at 10. Sampler broke. Hole caved to 8 feet. Install Probe SG4 at 8 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB5

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB5-1		SM	Silty SAND; brown, very fine grained, trace gravel, no odor.
5							Install Probe SG5 at 5 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB6

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB6-1		SM	Silty SAND; brown, very fine to fine grained, trace gravel, no odor.
5							Install Probe SG6 at 5 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB7

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB7-1		SW	SAND; gray, very fine to coarse grained, some gravel, no odor.
5							Install Probe SG7 at 5 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB8

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB8-1		SM	Silty SAND; brown, very fine grained, loose, no odor.
5							Install Probe SG8 at 5 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB9

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB9-1		SM	Silty SAND; brown, very fine grained, loose, no odor.
5							Install Probe SG9 at 5 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB10

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 5 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB10-1		SW	Gravelly SAND; gray, very fine to coarse grained, some coarse gravel, dry, no odor.
5							Install Probe SG10 at 5 feet. Seal with bentonite and neat cement to surface. Remove probe after sampling.

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB11

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 1 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB11-1		SM	Silty SAND; brown, very fine grained, loose, no odor. No Soil Gas Probe Installed

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB12

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 1 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB12-1		SM	Silty SAND; brown, very fine grained, loose, no odor. No Soil Gas Probe Installed

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB13

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 1 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB13-1		SM	Silty SAND; brown, very fine grained, loose, no odor. No Soil Gas Probe Installed

HILLMANN CONSULTING

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER HB14

PROJECT Arrow Truss
OWNER
LOCATION 1400 East Arrow Highway, Upland, CA
PROJECT NUMBER
DATE DRILLED June 26, 2021
TOTAL DEPTH OF HOLE 1 Feet
SURFACE ELEVATION
DEPTH TO WATER
SCREEN: DIA. **LENGTH** **SLOT SIZE**
CASING: DIA. **LENGTH** **TYPE**
DRILLING COMPANY Kehoe
DRILL METHOD GeoProbe
DRILLER
LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW	(USCS)	
1			0.0	HB14-1		SM	Silty SAND; brown, very fine grained, loose, no odor. No Soil Gas Probe Installed

APPENDIX D
Soil Gas Monitoring Data

SOIL GAS MONITORING DATA FORM

PROJECT: Commercial Property

LOCATION: 1400 East Arrow Highway, Upland, California

DATE: June 29, 2021

	VAPOR PROBE INFO							
PROBE ID	**SG1**	**SG2**	**SG3**	**SG4**	**SG5**	**SG6**	**SG7**	**SG8**
PROBE DEPTH (ft)	15	10	10	8	5	5	5	5
	EXTRACTION DATA							
Applied Vacuum (in. WC)	<5	<5	<5	<5	<5	<5	<5	<5
FLOW (L/min)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Pore Volumes (borehole - sand pack)	3	3	3	3	3	3	3	3
	MONITORING DATA							
OXYGEN (%)	19.7	19.9	19.9	19.4	20.2	20.1	19.7	20.0
CARBON DIOXIDE (%)	0.19	0.29	0.61	1.48	0.42	0.62	0.72	0.58
VOC by PID (ppm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	VAPOR PROBE INFO							
PROBE ID	**SG9**	**SG10**						
PROBE DEPTH (ft)	5	5						
	EXTRACTION DATA							
Applied Vacuum (in. WC)	<5	<5						
FLOW (L/min)	0.2	0.2						
Pore Volumes (borehole - sand pack)	3	3						
	MONITORING DATA							
OXYGEN (%)	19.3	20.0						
CARBON DIOXIDE (%)	1.04	0.63						
VOC by PID (ppm)	0.0	0.0						

REMARKS:

SAMPLED BY: DL/NH

APPENDIX E
GPR Report

SUBSURFACE INVESTIGATION TO LOCATE UNDERGROUND UTILITIES

COMMERCIAL PROPERTY
1400 Arrow Highway
Upland, CA 91786
PROJECT #: C3-8487

PREPARED BY:
SOCAL LOCATORS (SCL)
14050 CHERRY AVE, SUITE R-172
FONTANA, CA 92337
T: (909) 900-6504 / E: rick.socallocators@gmail.com

SCL PROJECT #: 121-0217
FIELD TECHNICIAN: Richard Carroll
FIELD INVESTIGATION PERFORMED: June 24, 2021
REPORT PREPARED: June 29, 2021

PREPARED FOR:
HILLMAN CONSULTING
ATT: Stephen Bartlett
1745 W. Orangewood Ave., STE. 201
Orange, CA 92868
T: (714) 949-2371 / E: sbartlett@hillmanngroup.com

14050 Cherry Ave., Suite R-172
Fontana, Californa 92337
Phone: (909) 900-6504
rick.socallocators@gmail.com

June 29, 2021

Mr. Stephen Bartlett
Hillman Consulting
1745 W. Onrangewood Ave.
Suite: 201
Orange, CA 92868

Subject: **SUBSURFACE INVESTIGATION**
Commercial Property
1400 Arrow Highway
Upland, CA 91786

Dear Mr. Bartlett,

With your request and authorization, SoCal Locators has prepared this "Subsurface Investigation Report" for the commercial property, located at 1400 Arrow Highway, Upland, CA 91786. The enclosed report presents our findings, and conclusions regarding the utility locations.

Thank you for allowing "SCL" the opportunity to assist you with this project. Please do not hesitate to contact me at (909) 900-6504, should you have any questions or need additional information.

Best regards,

Rick Huerta
SoCal Locators

14050 Cherry Ave., Suite R-172
Fontana, Californa 92337
Phone: (909) 900-6504
rick.socallocators@gmail.com

1. SITE LOCATION AND DESCRIPTION

The subject site is located at 1400 Arrow Highway, South-East where E. Arrow Highwar and Pacific Electric Trail meet in the city of Upland, CA The property is surrounded by commercial buildings/properties to the West/North and residential properties to the East and South.

Figure 1. Subject Site

14050 Cherry Ave., Suite R-172
Fontana, Californa 92337
Phone: (909) 900-6504
rick.socallocators@gmail.com

2. PURPOSE AND SCOPE

SoCal Locators to perform a "Subsurface Investigation", using electromagnetic and ground penetrating radar (GPR) equipment in an attempt to locate an "Underground Storage Tank" (UST) and an abandoned septic tank.

Figure 2. Site/Area of Interest

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3. THE PROCESS

Our process began with the "Electro-Magnetic" locating equipment to identify pipes or utilities throughout the work scoped areas. We swept all areas with the RD receiver to detect live power or radio frequency signals followed by connecting to any visible riser(s) or tracer wire(s) that may be in the area(s) provided that there is an exposed metallic surface(s). Locations are then marked and delineated with APWA marking paints and or flags on the surface. Depths cannot always be provided or accurate due to various types of soils.

Initial "Ground Penetrating Radar (GRP)" scans were then collected, data was evaluated and equipment was calibrated to ensure finding were confirmed and accurate. Based on these findings, a scanning strategy is formed, typically consisting of scanning the entire area in a grid with 5' - 10' scan spacings to locate any potential utilities and "Underground Storage Tanks (UST's)" that were not found with the pipe locator. The GPR data is interpreted in real time and anomalies in the data are located and marked on the surface using spray paint, flags, etc.,. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site.

4. EQUIPMENT

The GSSI UtilityScan SIR 3000 Ground Penetrating Radar unit with 400MHz antenna sends a dielectric signal into the earth, which registers with the density of the soil that it is penetrating. Any other material of varied density will either speed up the signal creating an inverted hyperbola or slow it down leaving a hyperbola trail. This is similar to a rock in a creek. The water bends around the rock leaving a tail wake. The GPR signal is not bending; however, it is sending back a continuous signal of the curvature of the anomaly or buried feature it encounters.

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rick.socallocators@gmail.com

GPR findings are not always accurate due to certain site conditions such as soil lithology, moisture, and soil make-up. These can limit the depth to which the GPR antenna can penetrate to locate buried features.
The RD8100 Electro-Magnetic Transmitter & Receiver has Inductive & Conductive capability to locate buried conductive underground utilities, such as copper, steel andgalvanized metal water pipes, electrical lines, power lines, tele-communication lines, metal and steel gas lines, and metal and steel pipelines. The RD8100 features include multiple active frequencies to delineate actively the depth and location of the target utility or pipe. The RD8100 receiver has a peak and null gain feature that pinpoints the target utility or pipe in congested areas. The audible signal to noise feature makes it easy for the locating technician to determine accurately the location of a directly connected utility or pipe by sound.

According to Radio Detection, the specifications of the RD8100 include...
Sensitivity: 6E-15 Tesla 5μA at 1 meter (33kHz)
Dynamic range: 140dB rms/√Hz
Selectivity: 120dB/Hz
Depth measurement precision: ± 3%
Locate accuracy: ± 5% of depth

The Jameson Duct Hunter 300 Traceable Rodder uses the RD8100 transmitter to energize the rod which is pushed into underground pipe to emit signal that is picked up by the RD8100 receiver above ground. This allows an entire buried utility pipe to be traced and marked continuously from above ground by one man without digging. The rod's ferrule attaches to a 512 MHz sonde, roller guide, or pulling eye. 5/16" diameter rod has 6" bend radius and is recommended for 2"- 4" conduit.

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Fontana, Californa 92337
Phone: (909) 900-6504
rick.socallocators@gmail.com

The Schonstedt GA-52Cx Magnetic Locator detects iron and steel objects underground, such as USTs, buried oil wells and buried metal monitoring well lids. The Schonstedt GA-52Cx Magnetometer provides audio detection signals with frequencies that vary with gradient field intensity. The signals peak in frequency when the locator tip is held directly over the target.

5. LIMITATIONS

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above ground features, and utilization of services as One Call/811.

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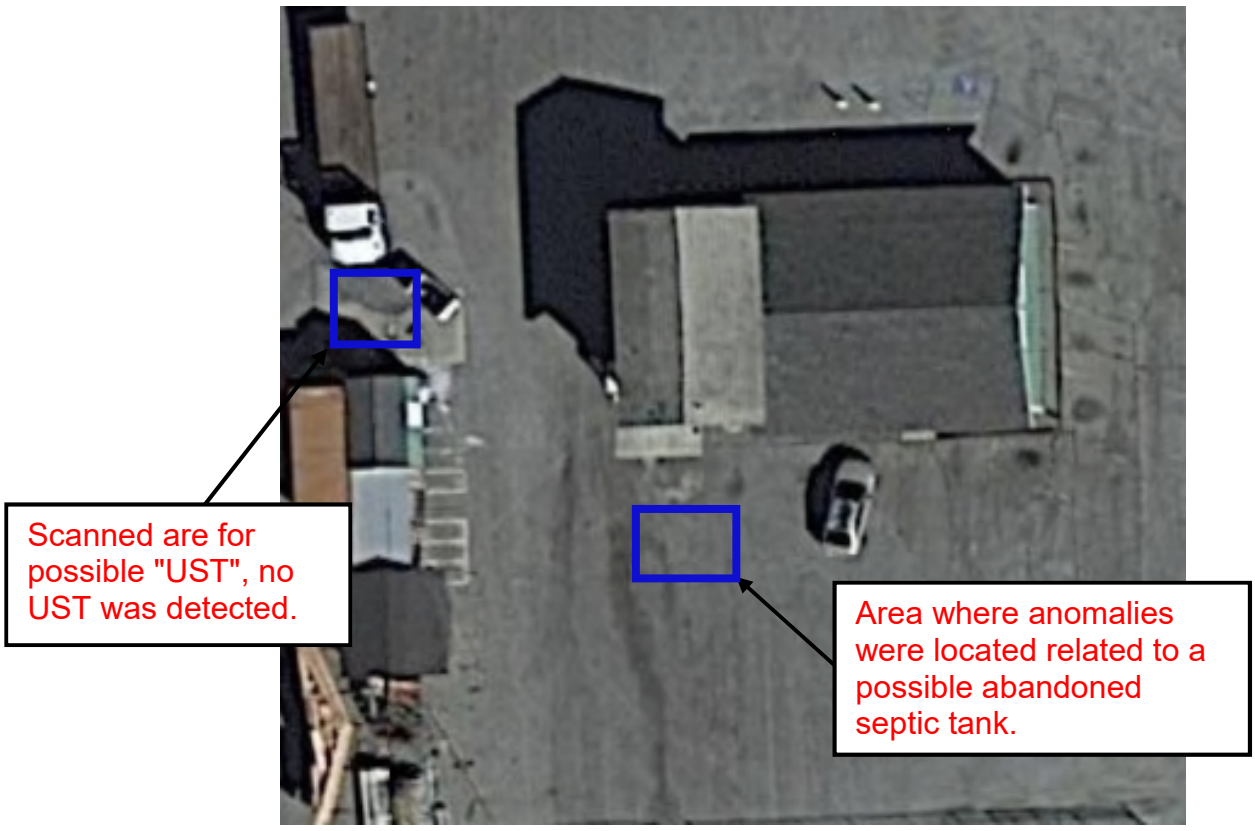
rick.socallocators@gmail.com

6. FINDINGS

Our technician ran GPR in a grit pattern of every two feet through the area(s) of interest or in question in an attempt to locate a UST and an abandoned septic tank. There were no anomalies leading to any "UST's" a concrete slab of approximately 20' x 20'. Our Technician also ran GPR in a pattern area to attempt to locate an abandoned septic tank and was able to detect some anomalies leading to a possible septic tank. All anomalies detected were identified and delineated using color coded APWA marking paint.

Figure 3. – Focus point of area scanned for UST and abandoned septic tank.



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Phone: (909) 900-6504
rick.socallocators@gmail.com

Figure(s) 4 – 7. Pictures of 20' x 20' area where anomalies were located for possible abandoned septic tank. Areas was delineated with white APWA marking paint as shown.

Figure 4

Figure 5

Figure 6

Figure 7

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Fontana, Californa 92337
Phone: (909) 900-6504
rick.socallocators@gmail.com

Figure(s) 8 - 11. Pictures of areas scanned for possible UST. No anomalies were located or detected. Areas scanned was delineated with white APWA marking paint as shown.

Figure 8

Figure 9

Figure 10

Figure 11

IS/MND Appendix E

Hydrology Study

PROPOSED HYDROLOGY STUDY

For
Rose Glen
Tentative Tract 20519

City of Upland
County of San Bernardino

November 2021

PREPARED BY: Naila A.Brown

UNDER SUPERVISION OF:

Patrick L. Pagaduan, R.C.E. 56820, Exp. 6/30/23 Date:

TABLE OF CONTENTS

SECTION **TITLE**

1 INTRODUCTION

A. PROJECT LOCATION
B. BACKGROUND/STUDY PURPOSE
C. METHODOLOGY
D. CONCLUSION

2 EXISTING HYDROLOGY

· 100,10 & 2 YEAR RATIONAL ANALYSIS
· EXHIBIT "A"- EXISTING HYDROLOGY MAP

3 PROPOSED HYDROLOGY

· 100,10 & 2 YEAR RATIONAL ANALYSIS
· EXHIBIT "B"- PROPOSED HYDROLOGY MAP

4 REFERENCES

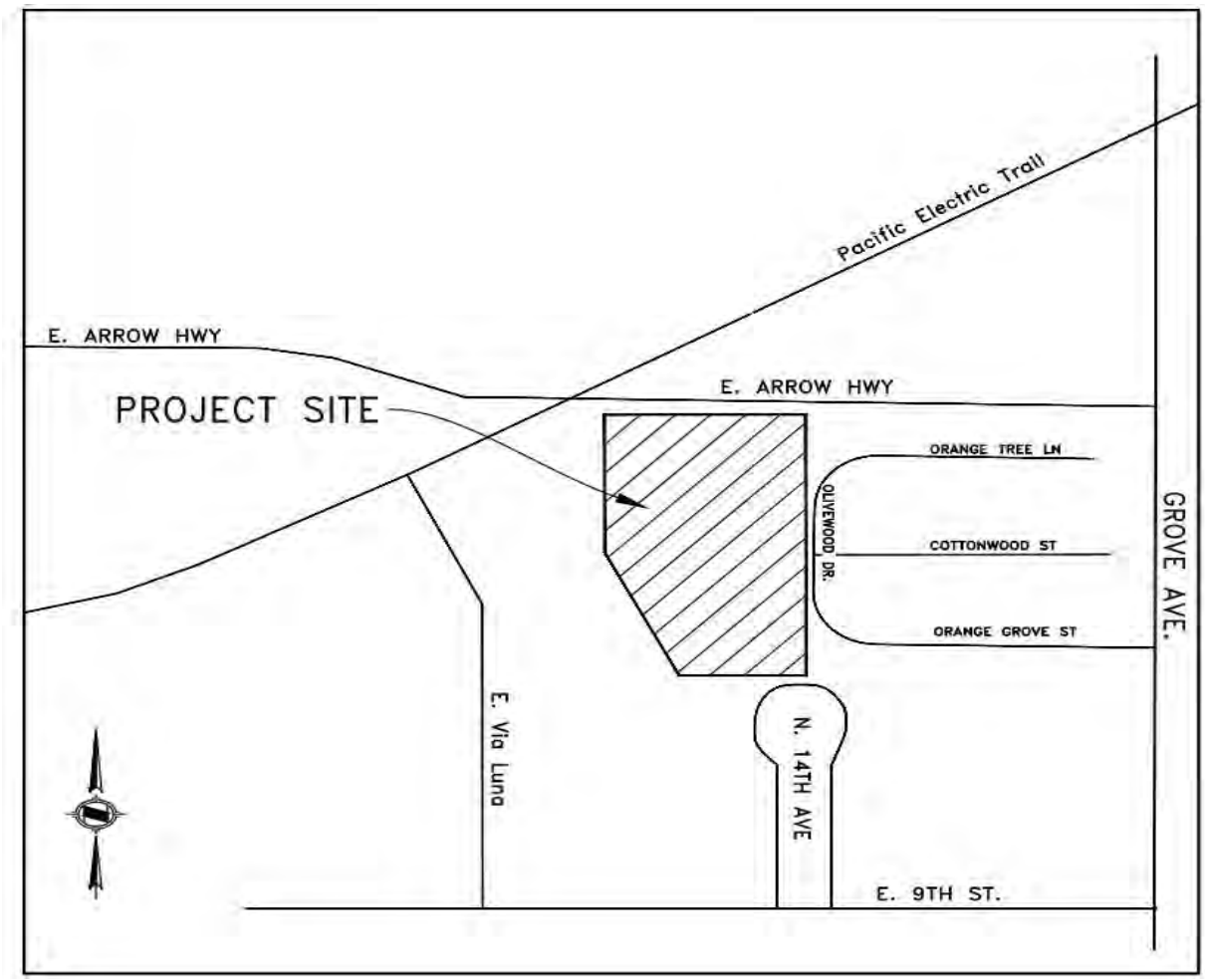
· HYDROLOGY PARAMETERS

SECTION 1
INTRODUCTION

A. PROJECT LOCATION

The project is Tract Map 20519, also known as Rose Glen. The site is generally bounded by E. Arrow Highway to the north, Grove Avenue to the east, and North 14th Avenue to the Southeast. (See attached vicinity map).

Vicinity Map

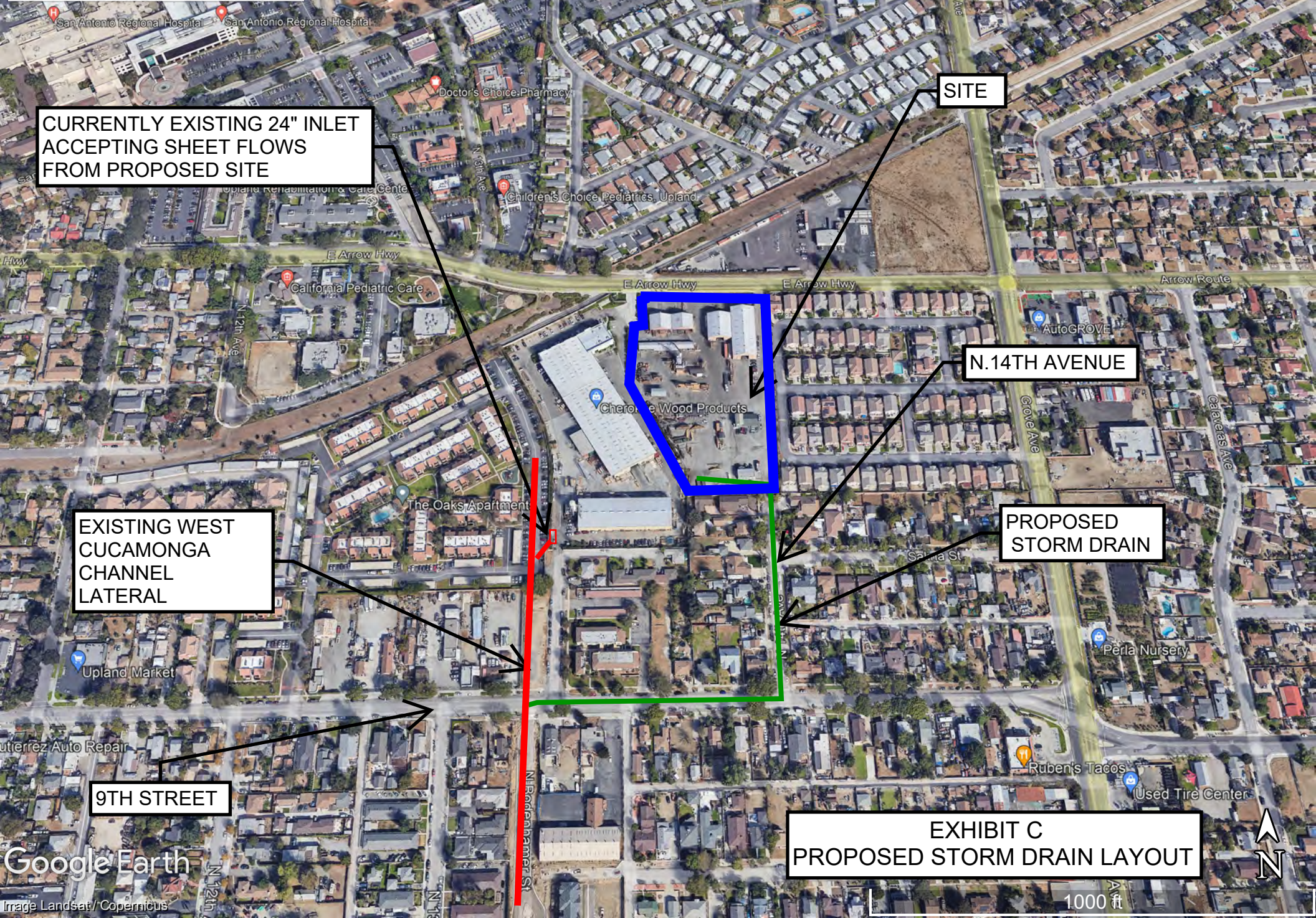


B. BACKGROUND/STUDY PURPOSE

This hydrology study has been prepared by Hunsaker and Associates, Inc, for the proposed development of TTM 20519.

The project site encompasses an area of approximately 4.84 acres, with a point of connection to existing 102" RCP at the intersection of 9TH Street and Bodenhamer Avenue, see Exhibit C.

For purposes of this study, 100-year design discharges used are based on the attached hydrology analysis and developed condition hydrology map.


CURRENTLY EXISTING 24" INLET ACCEPTING SHEET FLOWS FROM PROPOSED SITE
SITE
N.14TH AVENUE
PROPOSED STORM DRAIN
EXISTING WEST CUCAMONGA CHANNEL LATERAL
9TH STREET
EXHIBIT C
PROPOSED STORM DRAIN LAYOUT
N
1000 ft
Google Earth
Image Landsat / Copernicus
San Antonio Regional Hospital
Doctor's Choice Pharmacy
Children's Choice Pediatrics, Upland
E Arrow Hwy
California Pediatric Care
Arrow Route
AutoGROVE
The Oaks Apartments
Upland Market
Perla Nursery
Ruben's Tacos
Used Tire Center
N Rodenhamer St
Grove Ave
Cavera's Ave

Existing Condition

The project site is commercial, currently used for fabrication of construction materials. The majority of the site drains westerly towards the adjacent property, "Cherokee Wood Products", and to the existing 24" RCP headwall inlet that connects to an existing 10' X 6' RCB (see Exhibit C for clarification). There are no storm drain facilities onsite.

The existing hydrology study, is divided into two drainage areas, Area "A-1", approximately 4.69acres which sheets flows towards the existing 24" inlet, and area "A-2", approximate 0.2acres which sheets flows south-easterly towards North 14th Avenue, (see existing hydrology map *Exhibit "B").*

Proposed Condition

In the proposed condition the Project will be a single family residential development, with approximately 64 homes.

Drainage Areas "A-1", of approximately 4.53acres drains westerly to proposed inlet CB#1, and secondary overflow inlet CB#2. Drainage area "A-2", approximately 0.31acres sheets flows towards North.14th Avenue, as shown on Proposed Hydrology Map Exhibit B.

Water quality Lines are proposed to divert low flows to a proposed underground infiltration structure/water quality feature (See Exhibit D) for underground infiltration. As the infiltration rate decreases and the water starts to pond, an emergency escape pipe at a higher elevation will direct flows to the proposed storm drain.

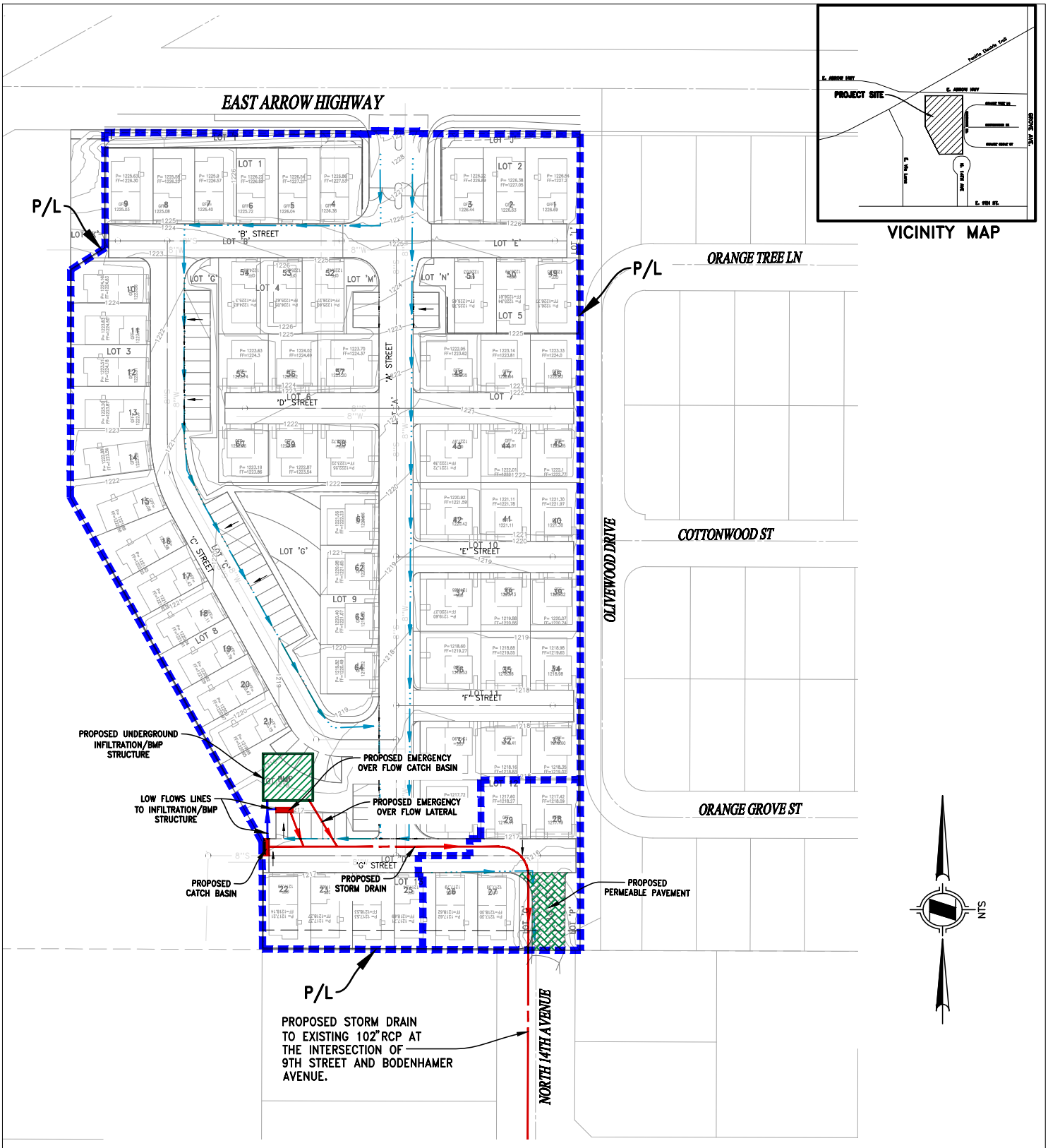


EXHIBIT "D"
PROPOSED DRAINAGE FACILITIES
TTM #20519
UPLAND, SAN BERNADINO, CA

PREPARED FOR:
CENTURY COMMUNITIES
UPLAND 76

PREPARED BY:
HUNSAKER & ASSOCIATES
IRVINE, INC
INLAND EMPIRE REGION
2000 ADAMS STREET, SUITE A-15
RIVERSIDE CA 92504 (951)653-7300
PLANNING/ENGINEERING/SURVEYING/GOVERNMENT RELATIONS

PLOTTED BY: Naila Brown DATE: Nov. 21, 2021 02:48:32 PM FILE: H:\00746\Planning\Hydrology\Maps\Onsite Drainge Facilities Exhibit.dwg

Table 1. Change in flows 100-year Storm Runoff

INLETS/POINT OF CONNECTION ID	EXISTING STUDY		PROPOSED STUDY		Δ FLOWS (CFS)	Findings
	Area (Ac)	Q100 (cfs)	Area (Ac)	Q100 (cfs)		
AREA "A-1"	4.69	18.5	4.53	16.3	-2.20	Area Decrease Q100 decrease
AREA "A-2" (Towards N.14th ST)	0.21	1.2	0.31	1.7	+0.5	Area increases Q100 Increases
TOTAL AREA & FLOWS	+/-4.90	19.7	+/-4.84	18.0	-1.7	Area decreases by +/- 0.06ac Q100 decrease

C. METHODOLOGY

Hydrology Analysis:

The San Bernardino County (SBC) Hydrology Manual was used to develop the hydrology parameters for the rational method. The calculations were performed using the computer program developed by AES VER 23.0.

The existing soil type A is shown in hydrology maps and used for this study from SBC Hydrology Manual. High Density residential lots with 80% imperviousness was utilized for the proposed land use.

D. CONCLUSION

The 100-year discharges from the proposed project shows that flows have been reduced due to development of TTM 20519 see Table 1. Above.

During final design, on-site storm flows will be conveyed by proposed inlet CB#1 and by secondary overflow inlet CB#2 to the proposed storm drain line as shown on Exhibit D.

Water quality low flows will be directed to the BMP infiltration structure, via a catch basin inlet diversion structures for treatment and infiltration before being discharged to the downstream storm system. Connector Pipe Screens (CPS) will also be added to filter larger debris and trash.

An-emergency overflow pipe from the infiltration structure will be added to divert flows in the event the BMP structure overflows.

Per Table 1. There will be no impact to the downstream watershed due to proposed project.

SECTION 2

EXISTING HYDROLOGY

```
_____
*****************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
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             Ver. 23.0  Release Date: 07/01/2016  License ID 1239

                           Analysis prepared by:

                           HUNSAKER & ASSOCIATES
                                Irvine,Inc
                     Planning * Engineering * Surveying
          Three Hughes * Irvine, California 92618 * (949)583-1010

----------------------------------------------------------------------------
  FILE NAME: EX100.DAT
  TIME/DATE OF STUDY: 11:14 11/05/2021
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                     --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.5000

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

*****************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   740.60
  ELEVATION DATA: UPSTREAM(FEET) =   1227.40  DOWNSTREAM(FEET) =   1215.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.761
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.459
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        4.69      0.74     0.100    52    9.76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     18.51
  TOTAL AREA(ACRES) =      4.69   PEAK FLOW RATE(CFS) =     18.51

*****************************************************************************
  FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   204.90
  ELEVATION DATA: UPSTREAM(FEET) =   1217.00  DOWNSTREAM(FEET) =   1213.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.615
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.214
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.21      0.74     0.100    52    5.62
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      1.16
  TOTAL AREA(ACRES) =      0.21   PEAK FLOW RATE(CFS) =      1.16
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.62
  EFFECTIVE AREA(ACRES) =      0.21  AREA-AVERAGED Fm(INCH/HR)=  0.07
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =       1.16
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
 ************************************************************************
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                           Analysis prepared by:

                           HUNSAKER & ASSOCIATES
                                Irvine,Inc
                      Planning * Engineering * Surveying
          Three Hughes * Irvine, California 92618 * (949)583-1010

 ************************* DESCRIPTION OF STUDY *************************
* EXISTING STUDY, 10 YEAR STORM                                        *
* UPLAND, SAN BERNADION,CA                                             *
*                                                                      *
 ************************************************************************
  FILE NAME: EX10.DAT
  TIME/DATE OF STUDY: 11:25 11/05/2021
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =   10.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0500

  *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   740.60
  ELEVATION DATA: UPSTREAM(FEET) =   1227.40  DOWNSTREAM(FEET) =   1215.50
  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.761
  *  10 YEAR RAINFALL INTENSITY(INCH/HR) =  3.122
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        4.69      0.98     0.100    32    9.76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =     12.76
  TOTAL AREA(ACRES) =      4.69   PEAK FLOW RATE(CFS) =     12.76

************************************************************************
  FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   204.90
  ELEVATION DATA: UPSTREAM(FEET) =   1217.00  DOWNSTREAM(FEET) =   1213.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.615
  *  10 YEAR RAINFALL INTENSITY(INCH/HR) =  4.350
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.21      0.98     0.100    32    5.62
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.80
  TOTAL AREA(ACRES) =      0.21   PEAK FLOW RATE(CFS) =      0.80
========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.62
  EFFECTIVE AREA(ACRES) =      0.21  AREA-AVERAGED Fm(INCH/HR)=  0.10
  AREA-AVERAGED Fp(INCH/HR) =  0.98  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =       0.80
========================================================================
========================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
************************************************************************
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                          Analysis prepared by:

                          HUNSAKER & ASSOCIATES
                               Irvine,Inc
                     Planning * Engineering * Surveying
          Three Hughes * Irvine, California 92618 * (949)583-1010

 ************************* DESCRIPTION OF STUDY *************************
* EXISTING HYDROLOGY STUDY, 2-YEAR STORM                                *
* UPLAND, SAN BERNADINO,CA                                              *
*                                                                       *
 ************************************************************************
  FILE NAME: EX2.DAT
  TIME/DATE OF STUDY: 11:32 11/05/2021
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =    2.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 0.6700

  *ANTECEDENT MOISTURE CONDITION (AMC) I ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   740.60
  ELEVATION DATA: UPSTREAM(FEET) =   1227.40  DOWNSTREAM(FEET) =   1215.50

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.761
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.992
  SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        4.69      1.33     0.100    17    9.76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  1.33
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      7.85
  TOTAL AREA(ACRES) =      4.69   PEAK FLOW RATE(CFS) =      7.85

************************************************************************
  FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   204.90
  ELEVATION DATA: UPSTREAM(FEET) =   1217.00  DOWNSTREAM(FEET) =   1213.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.615
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.775
  SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.21      1.33     0.100    17    5.62
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  1.33
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.50
  TOTAL AREA(ACRES) =      0.21   PEAK FLOW RATE(CFS) =      0.50
========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.62
  EFFECTIVE AREA(ACRES) =      0.21  AREA-AVERAGED Fm(INCH/HR)=  0.13
  AREA-AVERAGED Fp(INCH/HR) =  1.33  AREA-AVERAGED Ap = 0.100
  PEAK FLOW RATE(CFS)   =       0.50
========================================================================
========================================================================
  END OF RATIONAL METHOD ANALYSIS
```

EAST ARROW HIGHWAY

ORANGE TREE LN

COTTONWOOD ST

ORANGE GROVE ST

OLIVEWOOD DRIVE

NORTH 14TH AVENUE

P/L

P/L

P/L

1227.4EL

1

1217EL

2

10

11

A

A-1
4.69

A-2
0.21

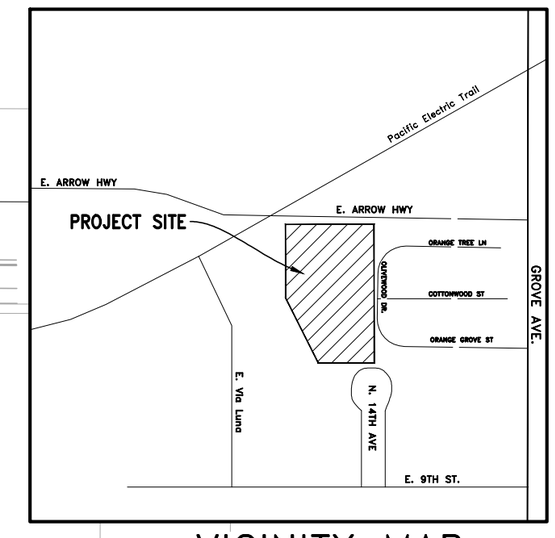
ΣQ_2 =7.8cfs
ΣQ_{10} =12.8cfs
ΣQ_{100} =18.5.cfs
Tc=9.7, Area=4.69ac
Elev.=1215.5

ΣQ_2 =0.5cfs
ΣQ_{10} =0.8cfs
ΣQ_{100} =1.2.cfs
Tc=5.6, Area=0.21ac
Elev.=1213

SCALE: 1"=50'

0 25 50 100

SCALE: 1" = 50'



VICINITY MAP

LEGEND

- DRAINAGE BOUNDARY
- NODE NUMBER
- A / 1.20 — AREA DESIGNATION / AREA ACREAGE
- ΣQ_{100} =8.0cfs / t=15.0 — PEAK CONFLUENCE FLOW RATE / TIME OF CONCENTRATION
- FLOW LINE
- A — SOIL GROUP

EXHIBIT "A"
EXISTING HYDROLOGY
TTM#20519
UPLAND, SAN BERNADINO, CA

PREPARED FOR:
CENTURY COMMUNITIES
UPLAND 76

PREPARED BY:
HUNSAKER & ASSOCIATES
IRVINE, INC
INLAND EMPIRE REGION
2900 ADAMS STREET, SUITE A-15
RIVERSIDE CA 92504 (951)352-7200
PLANNING/ENGINEERING/SURVEYING/GOVERNMENT RELATIONS

PLOTTED BY: Naila Brown DATE: Nov. 21, 2021 10:20:59 AM FILE: H:\00746\Planning\Hydrology\Maps\Existing Hydro Map.dwg

SECTION 3

PROPOSED HYDROLOGY

```
************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
          (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
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            Ver. 23.0  Release Date: 07/01/2016  License ID 1239

                          Analysis prepared by:

                          HUNSAKER & ASSOCIATES
                               Irvine,Inc
                     Planning * Engineering * Surveying
          Three Hughes * Irvine, California 92618 * (949)583-1010

 ************************* DESCRIPTION OF STUDY *************************
* PROPOSED HYDROLOGY STUDY, 100 YEAR STORM                              *
* UPLAND, SAN BERNADINO,CA                                              *
*                                                                       *
 ************************************************************************
        FILE NAME: PRO100.DAT
  TIME/DATE OF STUDY: 13:22 11/05/2021
========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.5000

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  ========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<ED
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   844.00
  ELEVATION DATA: UPSTREAM(FEET) =   1229.30  DOWNSTREAM(FEET) =   1216.35
  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.064
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.137
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "11+ DWELLINGS/ACRE"       A        4.53      0.74     0.200    52   11.06
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA RUNOFF(CFS) =     16.26
  TOTAL AREA(ACRES) =      4.53   PEAK FLOW RATE(CFS) =     16.26

+------------------------------------------------------------------------+
| AREA A-2 TOWARDS 14TH AVENUE                                           |
|                                                                        |
|                                                                        |
+------------------------------------------------------------------------+

************************************************************************
  FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   190.00
  ELEVATION DATA: UPSTREAM(FEET) =   1218.60  DOWNSTREAM(FEET) =   1214.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.562
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.249
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "11+ DWELLINGS/ACRE"       A        0.31      0.74     0.200    52    5.56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.74
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA RUNOFF(CFS) =      1.70
  TOTAL AREA(ACRES) =      0.31   PEAK FLOW RATE(CFS) =      1.70
========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.3  TC(MIN.) =      5.56
  EFFECTIVE AREA(ACRES) =      0.31  AREA-AVERAGED Fm(INCH/HR)=  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.74  AREA-AVERAGED Ap = 0.200
  PEAK FLOW RATE(CFS)   =       1.70
========================================================================
========================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
 ************************************************************************
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                          Analysis prepared by:

                          HUNSAKER & ASSOCIATES
                               Irvine,Inc
                     Planning * Engineering * Surveying
          Three Hughes * Irvine, California 92618 * (949)583-1010

  ************************* DESCRIPTION OF STUDY *************************
 * PROPOSED HYDROLOGY STUDY, 10 YEAR STORM                              *
 * UPLAND, SAN BERNADINO,CA                                             *
 *                                                                      *
 ************************************************************************
  FILE NAME: PRO10.DAT
  TIME/DATE OF STUDY: 14:00 11/05/2021
 ========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
 ========================================================================
                     --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =   10.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.0500

  *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  ========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0312 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

 ************************************************************************
  FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  21
 ------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
 ========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   844.00
  ELEVATION DATA: UPSTREAM(FEET) =   1229.30  DOWNSTREAM(FEET) =   1216.35
  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.064
  *  10 YEAR RAINFALL INTENSITY(INCH/HR) =  2.896
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "11+ DWELLINGS/ACRE"       A        4.53      0.98     0.200    32   11.06
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA RUNOFF(CFS) =     11.01
  TOTAL AREA(ACRES) =      4.53   PEAK FLOW RATE(CFS) =     11.01

 ************************************************************************
  FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
 ------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
 ========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   190.00
  ELEVATION DATA: UPSTREAM(FEET) =   1218.60  DOWNSTREAM(FEET) =   1214.00

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.562
  *  10 YEAR RAINFALL INTENSITY(INCH/HR) =  4.375
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "11+ DWELLINGS/ACRE"       A        0.31      0.98     0.200    32    5.56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.98
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA RUNOFF(CFS) =      1.17
  TOTAL AREA(ACRES) =      0.31   PEAK FLOW RATE(CFS) =      1.17
 ========================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.3  TC(MIN.) =      5.56
  EFFECTIVE AREA(ACRES) =      0.31  AREA-AVERAGED Fm(INCH/HR)=  0.20
  AREA-AVERAGED Fp(INCH/HR) =  0.98  AREA-AVERAGED Ap = 0.200
  PEAK FLOW RATE(CFS)   =       1.17
 ========================================================================
 ========================================================================
  END OF RATIONAL METHOD ANALYSIS
```

```
 ************************************************************************
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                          Analysis prepared by:

                          HUNSAKER & ASSOCIATES
                               Irvine,Inc
                     Planning * Engineering * Surveying
          Three Hughes * Irvine, California 92618 * (949)583-1010

  ************************* DESCRIPTION OF STUDY *************************
 * PROPOSED HYDROLOGY STUDY, 2YEAR STORM
*  UPLAND, SAN BERNADINO, CA
  ************************************************************************
   FILE NAME: PRO2.DAT
   TIME/DATE OF STUDY: 14:08 11/05/2021
 ========================================================================
   USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
 ========================================================================
                     --*TIME-OF-CONCENTRATION MODEL*--

   USER SPECIFIED STORM EVENT(YEAR) =    2.00
   SPECIFIED MINIMUM PIPE SIZE(INCH) =  18.00
   SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
   *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

   SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
   USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 0.6700

   *ANTECEDENT MOISTURE CONDITION (AMC) I ASSUMED FOR RATIONAL METHOD*

   *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
      HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
      WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
 NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
 ===  =====  =========  =================  ======  ===== ====== ===== =======
   1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

   GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
     1. Relative Flow-Depth =  0.00 FEET
        as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
     2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
   *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
    OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
   *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

 ************************************************************************
   FLOW PROCESS FROM NODE      1.00 TO NODE      2.00 IS CODE =  21
 ------------------------------------------------------------------------
   >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
   >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
 ========================================================================
   INITIAL SUBAREA FLOW-LENGTH(FEET) =   844.00
   ELEVATION DATA: UPSTREAM(FEET) =   1229.30  DOWNSTREAM(FEET) =   1216.35

   Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
   SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.064
   *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.848
   SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
    DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
   RESIDENTIAL
   "11+ DWELLINGS/ACRE"       A        4.53      1.33     0.200    17   11.06
   SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  1.33
   SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
   SUBAREA RUNOFF(CFS) =      6.45
   TOTAL AREA(ACRES) =      4.53   PEAK FLOW RATE(CFS) =      6.45

 ************************************************************************
   FLOW PROCESS FROM NODE     10.00 TO NODE     11.00 IS CODE =  21
 ------------------------------------------------------------------------
   >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
   >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
 ========================================================================
   INITIAL SUBAREA FLOW-LENGTH(FEET) =   190.00
   ELEVATION DATA: UPSTREAM(FEET) =   1218.60  DOWNSTREAM(FEET) =   1214.00

   Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
   SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.562
   *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.791
   SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
    DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
   RESIDENTIAL
   "11+ DWELLINGS/ACRE"       A        0.31      1.33     0.200    17    5.56
   SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  1.33
   SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
   SUBAREA RUNOFF(CFS) =      0.70
   TOTAL AREA(ACRES) =      0.31   PEAK FLOW RATE(CFS) =      0.70
 ========================================================================
   END OF STUDY SUMMARY:
   TOTAL AREA(ACRES)     =        0.3  TC(MIN.) =      5.56
   EFFECTIVE AREA(ACRES) =      0.31  AREA-AVERAGED Fm(INCH/HR)=  0.27
   AREA-AVERAGED Fp(INCH/HR) =  1.33  AREA-AVERAGED Ap = 0.200
   PEAK FLOW RATE(CFS)   =       0.70
 ========================================================================
 ========================================================================
   END OF RATIONAL METHOD ANALYSIS
```
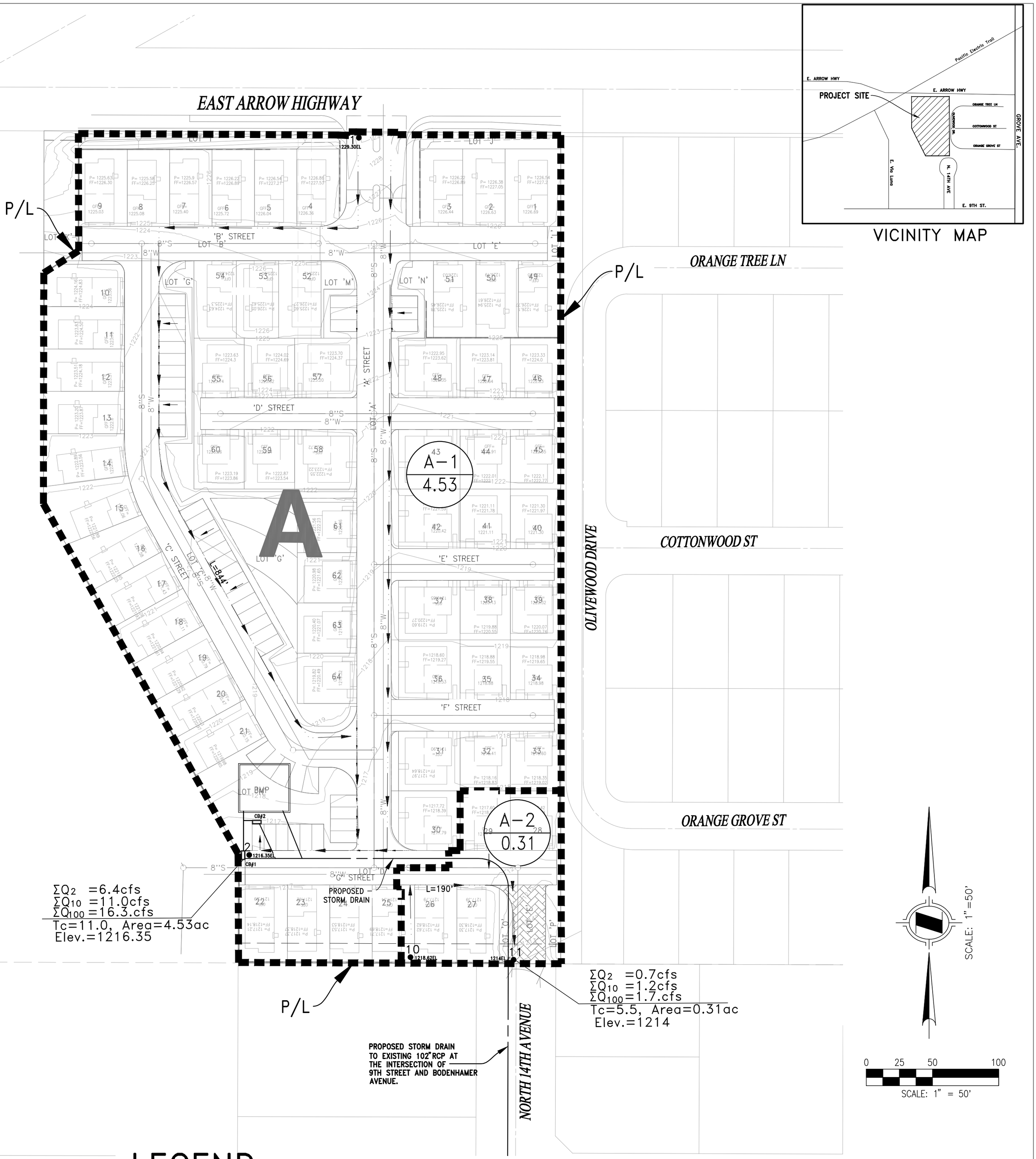



VICINITY MAP

LEGEND

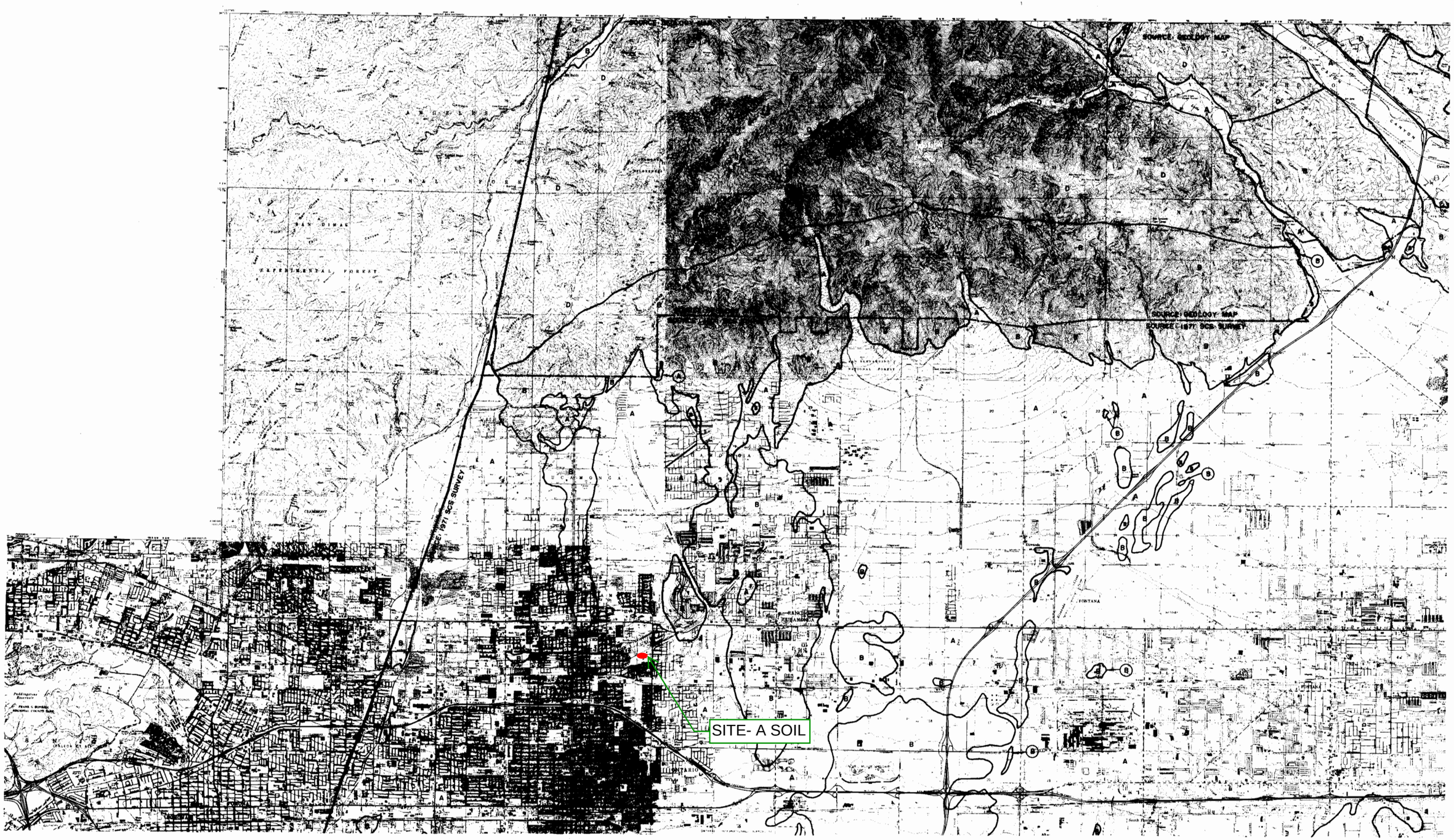
- DRAINAGE BOUNDARY
- NODE NUMBER
- AREA DESIGNATION / AREA ACREAGE
- PEAK CONFLUENCE FLOW RATE / TIME OF CONCENTRATION
- FLOW LINE
- CB — CATCH BASIN
- SOIL GROUP

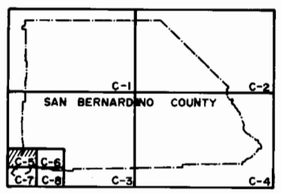
EXHIBIT "B"
PROPOSED HYDROLOGY
TTM#20519
UPLAND, SAN BERNADINO, CA

PREPARED FOR:
CENTURY COMMUNITIES
UPLAND 76

PREPARED BY:
HUNSAKER & ASSOCIATES
IRVINE, INC
INLAND EMPIRE REGION
2900 ADAMS STREET, SUITE A-15
RIVERSIDE CA 92504 (951)352-7200
PLANNING/ENGINEERING/SURVEYING/GOVERNMENT RELATIONS

SECTION 4
REFERENCE





INDEX MAP

LEGEND

SOIL GROUP BOUNDARY

A SOIL GROUP DESIGNATION

BOUNDARY OF INDICATED SOURCE

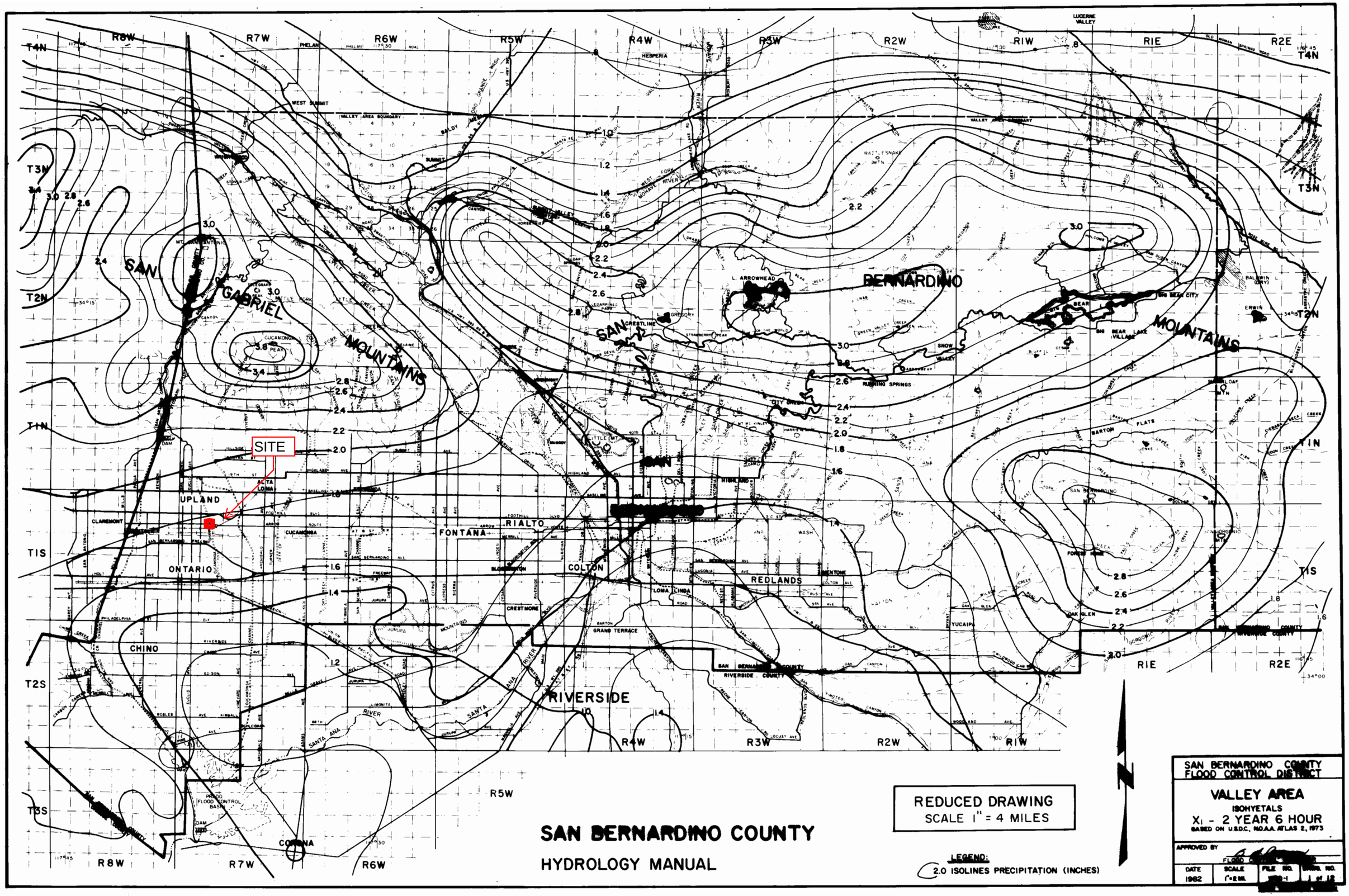
SCALE 1:48,000

SCALE REDUCED BY 1/2

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

HYDROLOGIC SOILS GROUP MAP
FOR
SOUTHWEST-A AREA



SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

REDUCED DRAWING
SCALE 1" = 4 MILES

LEGEND:
2.0 ISOLINES PRECIPITATION (INCHES)

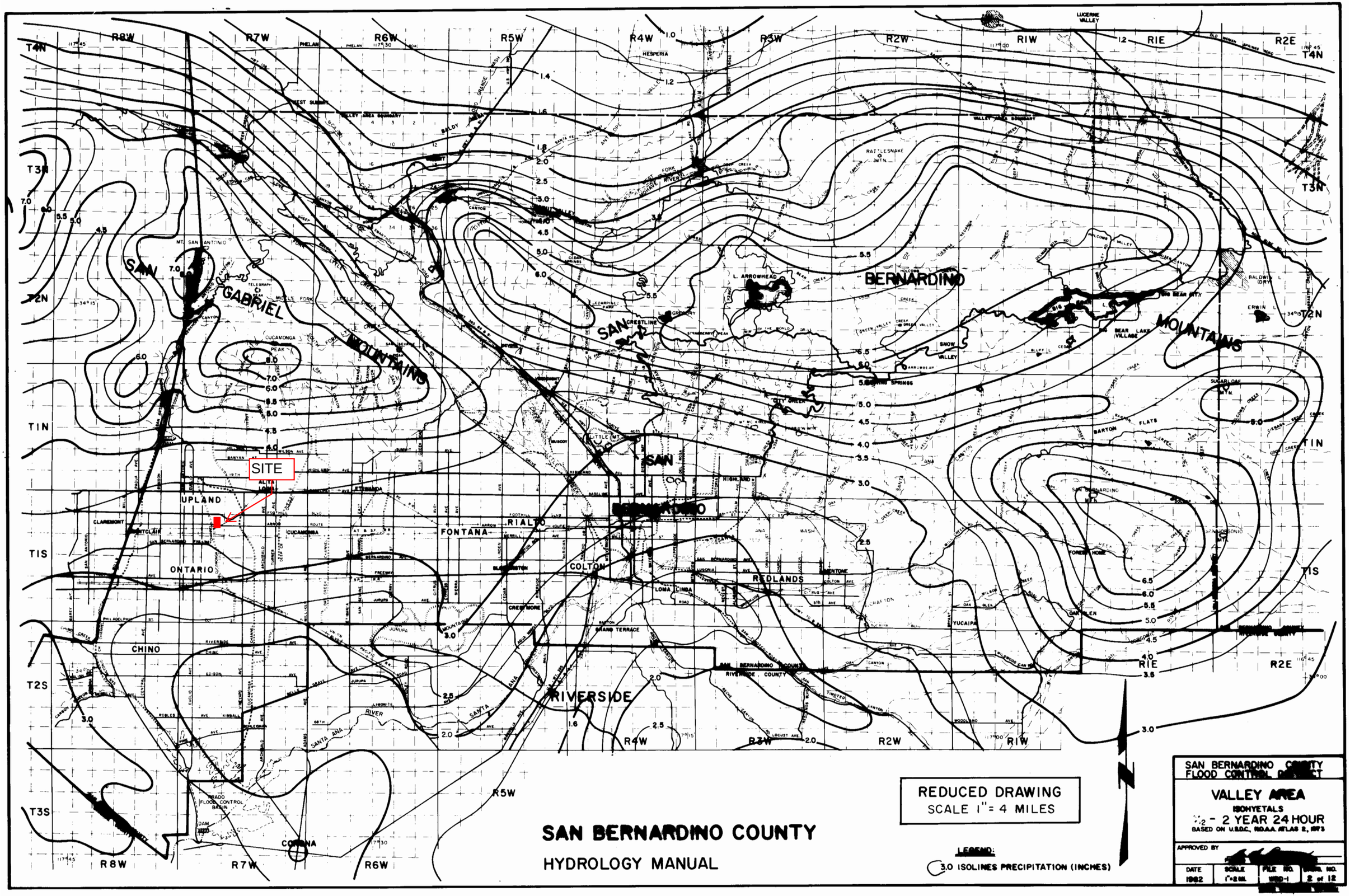
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT

VALLEY AREA
ISOHYETALS
X_1 - 2 YEAR 6 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973

APPROVED BY
FLOOD CONTROL ENGINEER

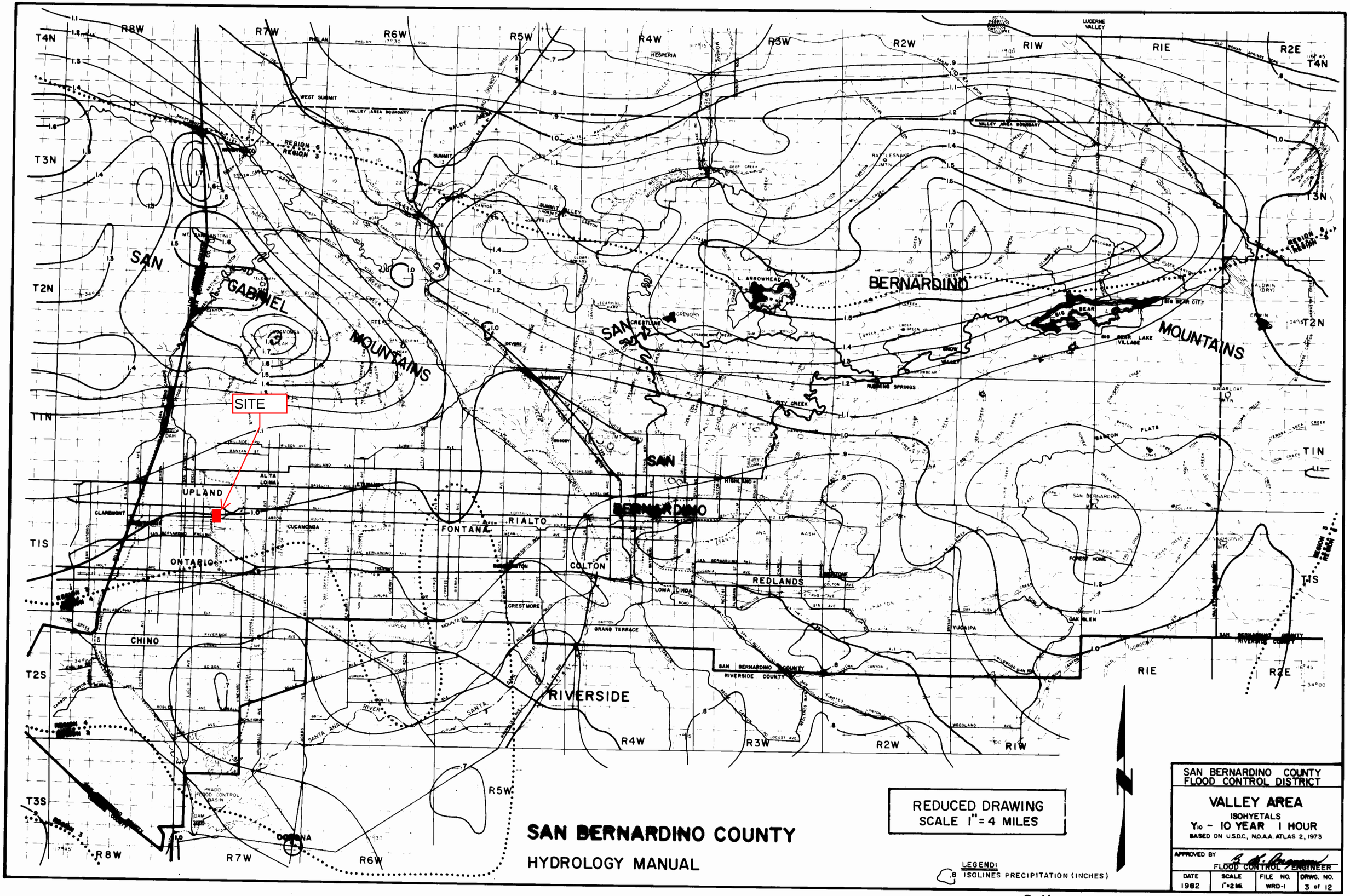
DATE	SCALE	FILE NO.	DRWG. NO.
1982	1"=2 MI.		1 of 12

FIGURE B-1



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

FIGURE B-2



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

REDUCED DRAWING
SCALE 1" = 4 MILES

LEGEND:
.8 ISOLINES PRECIPITATION (INCHES)

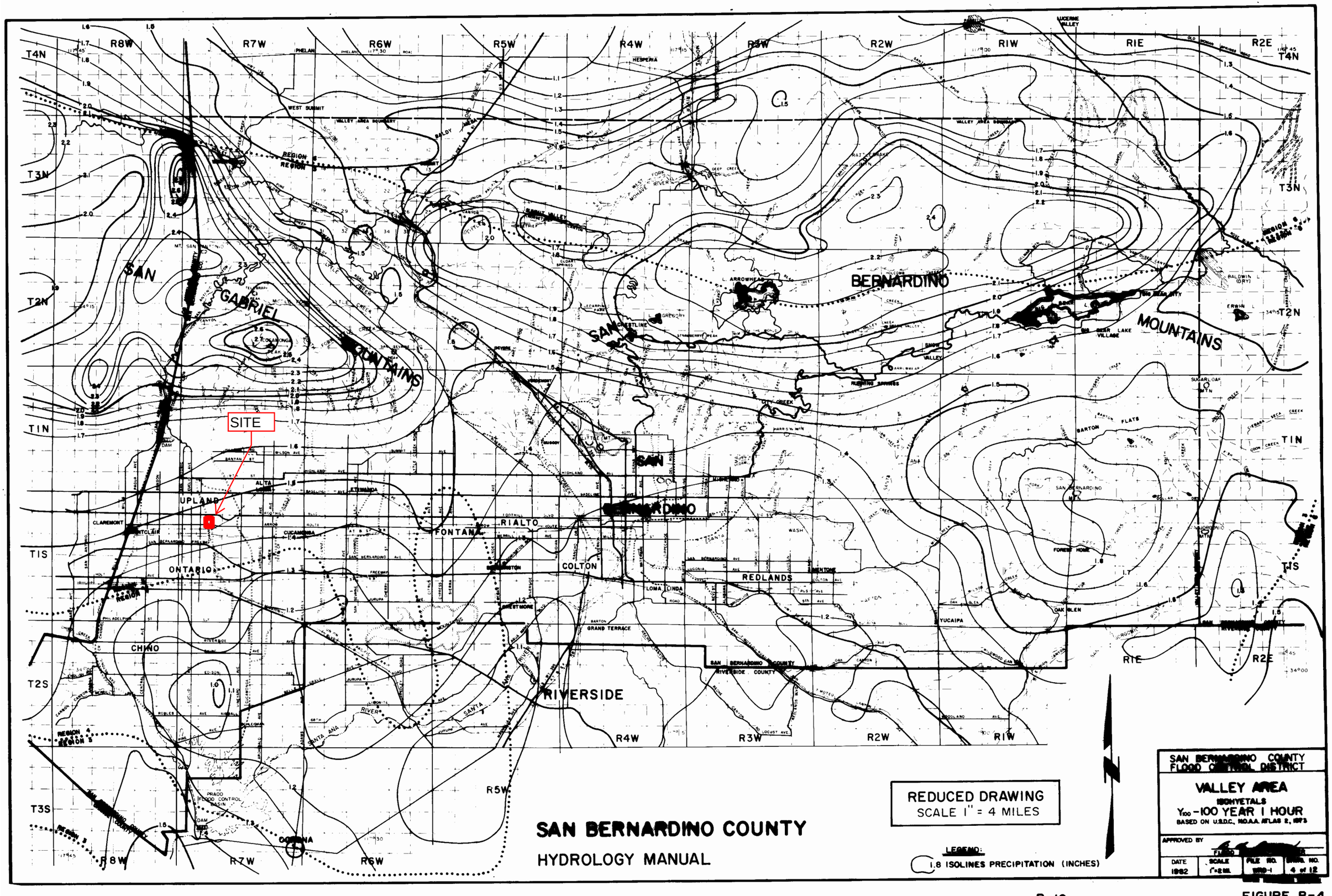
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT

VALLEY AREA
ISOHYETALS
Y_{10} - 10 YEAR 1 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973

APPROVED BY _____ FLOOD CONTROL ENGINEER

DATE	SCALE	FILE NO.	DRWG. NO.
1982	1"=2 Mi.	WRD-1	3 of 12

FIGURE B-3



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

REDUCED DRAWING
SCALE 1" = 4 MILES

LEGEND:
1.8 ISOLINES PRECIPITATION (INCHES)

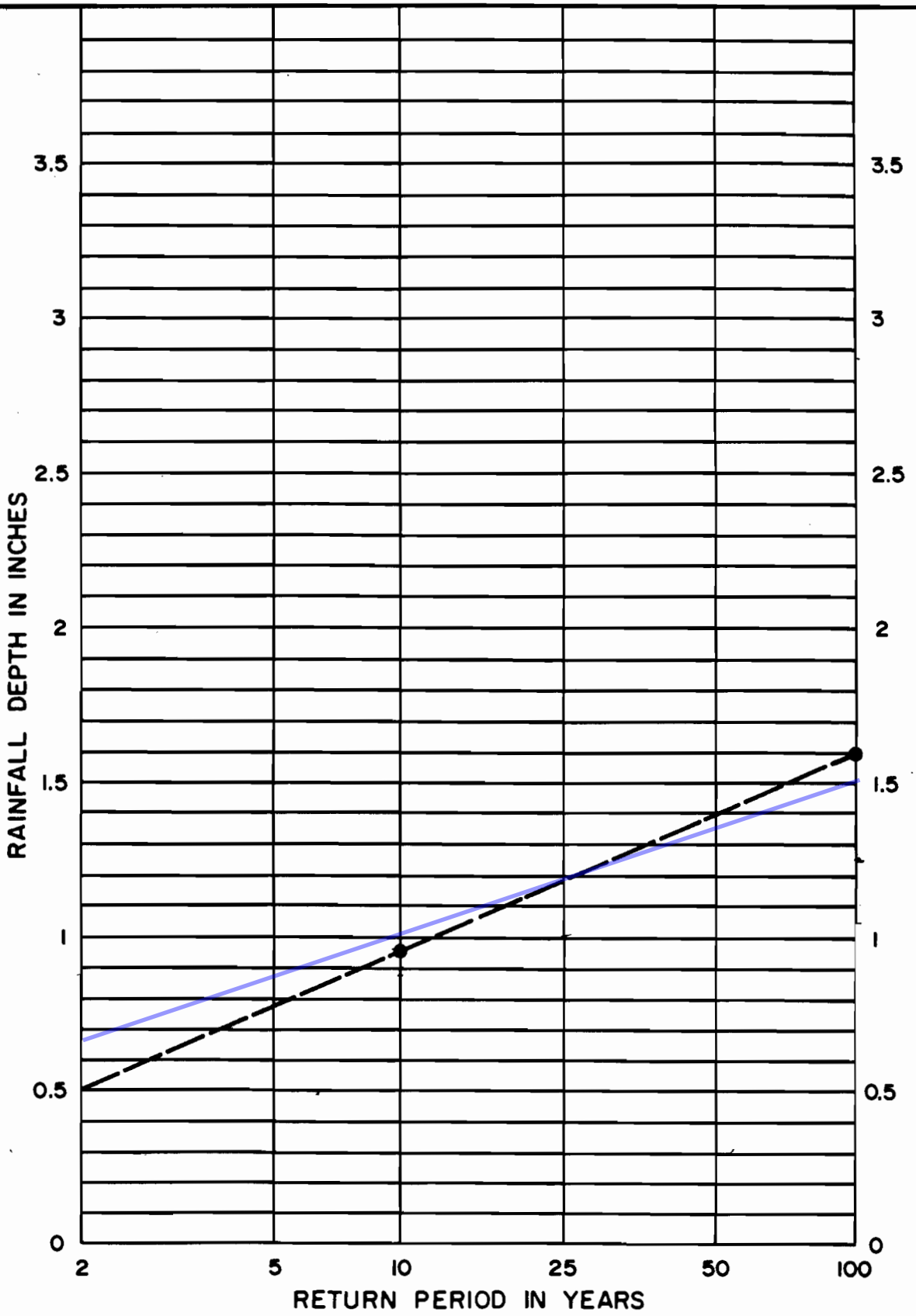
SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

VALLEY AREA
ISOHYETALS
Y_{100} - 100 YEAR 1 HOUR
BASED ON U.S.D.C., NOAA ATLAS 2, 1973

APPROVED BY

DATE	SCALE	FILE NO.	DRWG. NO.
1982	1"=2MI.	VHD-1	4 of 12

FIGURE B-4



NOTE:

1. FOR INTERMEDIATE RETURN PERIODS PLOT 10-YEAR AND 100-YEAR ONE HOUR VALUES FROM MAPS, THEN CONNECT POINTS AND READ VALUE FOR DESIRED RETURN PERIOD. FOR EXAMPLE GIVEN 10-YEAR ONE HOUR = 0.95" AND 100-YEAR ONE HOUR = 1.60", 25-YEAR ONE HOUR = 1.18".

REFERENCE: NOAA ATLAS 2, VOLUME XI - CAL., 1973

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

RAINFALL DEPTH VERSUS RETURN PERIOD FOR PARTIAL DURATION SERIES

FIGURE D-2

IS/MND Appendix F

Acoustical Analysis Report

Rose Glen Specific Plan Residential Project

Acoustical Analysis Report

November 2021 | 03669.00003.001

Prepared for:

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TABLE OF CONTENTS

Section **Page**

EXECUTIVE SUMMARY ES-1

1.0 INTRODUCTION 1

1.1 Purpose of the Report 1
1.2 Project Description 1
1.3 Noise and Sound Level Descriptors and Terminology 1
1.3.1 Descriptors 1
1.3.2 Terminology 2
1.4 Noise-Sensitive Land Uses 3
1.5 Regulatory Framework 3
1.5.1 California Noise Control Act 3
1.5.2 City of Upland General Plan, Safety Element 3
1.5.3 City of Upland Municipal Code, Chapter 9.40, Unnecessary Noise 4

2.0 ENVIRONMENTAL SETTING 5

2.1 Surrounding Land Uses 5
2.2 Existing Noise Environment 5
2.2.1 Ambient Noise Survey 5

3.0 ANALYSIS, METHODOLOGY, AND ASSUMPTIONS 6

3.1 Methodology 6
3.1.1 Ambient Noise Survey 6
3.1.2 Noise Modeling Software 7
3.2 Assumptions 7
3.2.1 Construction 7
3.2.2 Operations 7
3.2.3 Cherokee Wood Products Noise 8
3.3 Guidelines for the Determination of Significance 9

4.0 IMPACTS 10

4.1 Issue 1: Excessive Noise Levels 10
4.1.1 Operational On-site Noise Generation 10
4.1.2 Operational Off-site Transportation Noise Generation 10
4.1.3 On-site Construction Noise Generation 11
4.1.4 Construction Traffic Noise 13
4.2 Issue 2: Excessive Vibration 14
4.2.1 Construction Vibration 14
4.2.2 Operational Vibration 14
4.3 Issue 3: Airport Noise Exposure 14
4.3.1 Aircraft Noise 14
4.4 Issue 4: General Plan Safety Element Compliance 15
4.4.1 Exposure to Excessive Noise 15

TABLE OF CONTENTS (cont.)

Section		Page
5.0	LIST OF PREPARERS	17
6.0	REFERENCES	18

LIST OF APPENDICES

A	Site Survey Measurement Sheets
B	Carrier 38HDR060 Split System Condenser

LIST OF FIGURES

No.	Title	Follows Page
1	Regional Location	2
2	Project Vicinity	2
3	Site Plan	2

LIST OF TABLES

No.	Title	Page
1	Exterior Noise Compatibility Standards	4
2	Applicable Residential Noise Limits	4
3	Noise Measurement Results	6
4	Recorded Traffic Volume and Vehicle Mix	6
5	Carrier HDR060 Condenser Noise	8
6	Existing Plus Project Traffic Volumes	9
7	Off-site Traffic Noise Levels	11
8	Construction Equipment Noise Levels	12

ACRONYMS AND ABBREVIATIONS

ADT	average daily traffic
ALUCP	Airport Land Use Compatibility Plan
ANSI	American National Standards Institute
CAD	Computer Aided Design
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
City	City of Upland
CNEL	Community Noise Equivalent Level
CY	cubic yard
dB	decibel
dBA	A-weighted decibels
HVAC	heating, ventilation, and air conditioning
Hz	Hertz
kHz	kilohertz
L_{DN}	Day-Night level
L_{EQ}	equivalent sound level
L_{MAX}	maximum noise level
mPa	micro-Pascals
mph	miles per hour
NSLU	noise-sensitive land use
PPV	peak particle velocity
RCNM	Roadway Construction Noise Model
SPL	sound pressure level
STC	Sound Transmission Class
S_{WL}	sound power level
TFIC	Transportation Forecast Information Center
TNM	Traffic Noise Model
USDOT	U.S. Department of Transportation

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EXECUTIVE SUMMARY

This report presents an assessment of potential noise impacts associated with the proposed Rose Glen Specific Plan Residential Project (project). The 4.9-acre project site is located at 1400 East Arrow Highway in the city of Upland. The project involves removal of existing warehouses to construct 64 two-story single-family residential units. An existing 10-foot block wall separating the project site from an adjacent residential neighborhood to the east would remain. The project would require demolition of existing structures.

The project's heating, ventilation, and air conditioning (HVAC) systems are not anticipated to exceed allowable City Municipal Code limits.

The project would add traffic to nearby roadways, but transportation noise impacts to off-site land uses would be less than significant.

Anticipated construction activities would generate temporary elevated noise levels for nearby residences to the west and south. Noise levels from general construction may exceed the existing baseline ambient noise conditions by over 10 dBA. Mitigation measure NOI-1 would reduce noise impacts to less than significant levels. Construction would not generate substantial vibration.

Future residential units and exterior use areas would be exposed to noise from vehicular traffic along East Arrow Highway and from operations at the neighboring Cherokee Wood Products site. Noise levels at the proposed residences would not exceed the applicable 65 Community Noise Equivalent Level (CNEL) limit set forth in the City of Upland's (City's) General Plan Safety Element. Through incorporation of mitigation measure NOI-2, which relates to exterior wall and window construction, interior noise levels would not exceed the applicable 45 CNEL limit for residential uses.

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1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

This report analyzes potential noise and vibration impacts associated with the proposed Rose Glen Specific Plan Residential Project (project). The analysis includes a description of existing conditions in the project vicinity, an assessment of potential impacts associated with project implementation, and land use compliance for new residential uses. Analysis within this report addresses the relevant issues listed in Appendix G of the California Environmental Quality Act (CEQA) Guidelines.

1.2 PROJECT DESCRIPTION

The project site is located at 1400 East Arrow Highway in the city of Upland in the southwest region of San Bernardino County. The parcel is approximately 4.9 acres in size and is currently operating as a lumber yard. The Assessor's Parcel Number (APN) is 1046-481-14-0000. See Figure 1, *Project Location*, and Figure 2, *Project Vicinity (Aerial Photograph).*

The project involves removal of existing warehouses to construct 64 residential units (see Figure 3, *Site Plan*). The project's residences would consist of two-story single-family detached homes with a maximum height of 40 feet. The project would also include approximately 30,000 square feet of open space, 20,600 square feet of private exterior use areas, and 9,400 square feet of common areas. The project would also provide parking through private two-car garages and dedicated guest parking spaces throughout the site. A 6-foot block wall would be constructed along the project's western boundary. An existing 10-foot block wall separating the project site from an adjacent residential neighborhood to the east would remain, as would an existing six-foot wall along the project's southern edge. The project would be accessed from East Arrow Highway via a gated entrance to the north. A secondary emergency access would be located along 14th Avenue. A network of internal private drives would provide access to individual residences.

The project would require demolition of existing structures, totaling 5,000 square feet. A total of 213,444 square feet of asphalt would be demolished and removed from the site. Construction would require the import of 2,727 cubic yards of soil.

To accommodate the residences, the project would require a General Plan land use amendment and a zone change from the current Light Industrial/Business Park designation and Light Industrial Zoning to Specific Plan and RM-20 Residential, MF 20 dwelling units (du) per acre.

1.3 NOISE AND SOUND LEVEL DESCRIPTORS AND TERMINOLOGY

1.3.1 Descriptors

All noise level or sound level values presented herein are expressed in terms of decibels (dB), with A-weighting (dBA) to approximate the hearing sensitivity of humans. Time-averaged noise levels are expressed by the symbol L_{EQ}, with a specified duration. The Community Noise Equivalent Level (CNEL) is a 24-hour average, where noise levels during the evening hours of 7:00 p.m. to 10:00 p.m. have an added 5 dBA weighting, and noise levels during the nighttime hours of 10:00 p.m. to 7:00 a.m. have an added 10 dBA weighting. This is similar to the Day Night sound level (L_{DN}), which is a 24-hour average

with an added 10 dBA weighting on the same nighttime hours but no added weighting on the evening hours. Sound levels expressed in CNEL are always based on dBA. These metrics are used to express noise levels for both measurement and municipal regulations, as well as for land use guidelines and enforcement of noise ordinances.

1.3.2 Terminology

1.3.2.1 Sound, Noise, and Acoustics

Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a liquid or gaseous medium (e.g., air) to a hearing organ, such as a human ear. Noise is defined as loud, unexpected, or annoying sound.

In the science of acoustics, the fundamental model consists of a sound (or noise) source, a receiver, and the propagation path between the two. The loudness of the noise source and obstructions or atmospheric factors affecting the propagation path to the receiver determines the sound level and characteristics of the noise perceived by the receiver. The field of acoustics deals primarily with the propagation and control of sound.

1.3.2.2 Frequency

Continuous sound can be described by frequency (pitch) and amplitude (loudness). A low-frequency sound is perceived as low in pitch. Frequency is expressed in terms of cycles per second, or Hertz (Hz) (e.g., a frequency of 250 cycles per second is referred to as 250 Hz). High frequencies are sometimes more conveniently expressed in kilohertz (kHz), or thousands of Hertz. The audible frequency range for humans is generally between 20 Hz and 20,000 Hz.

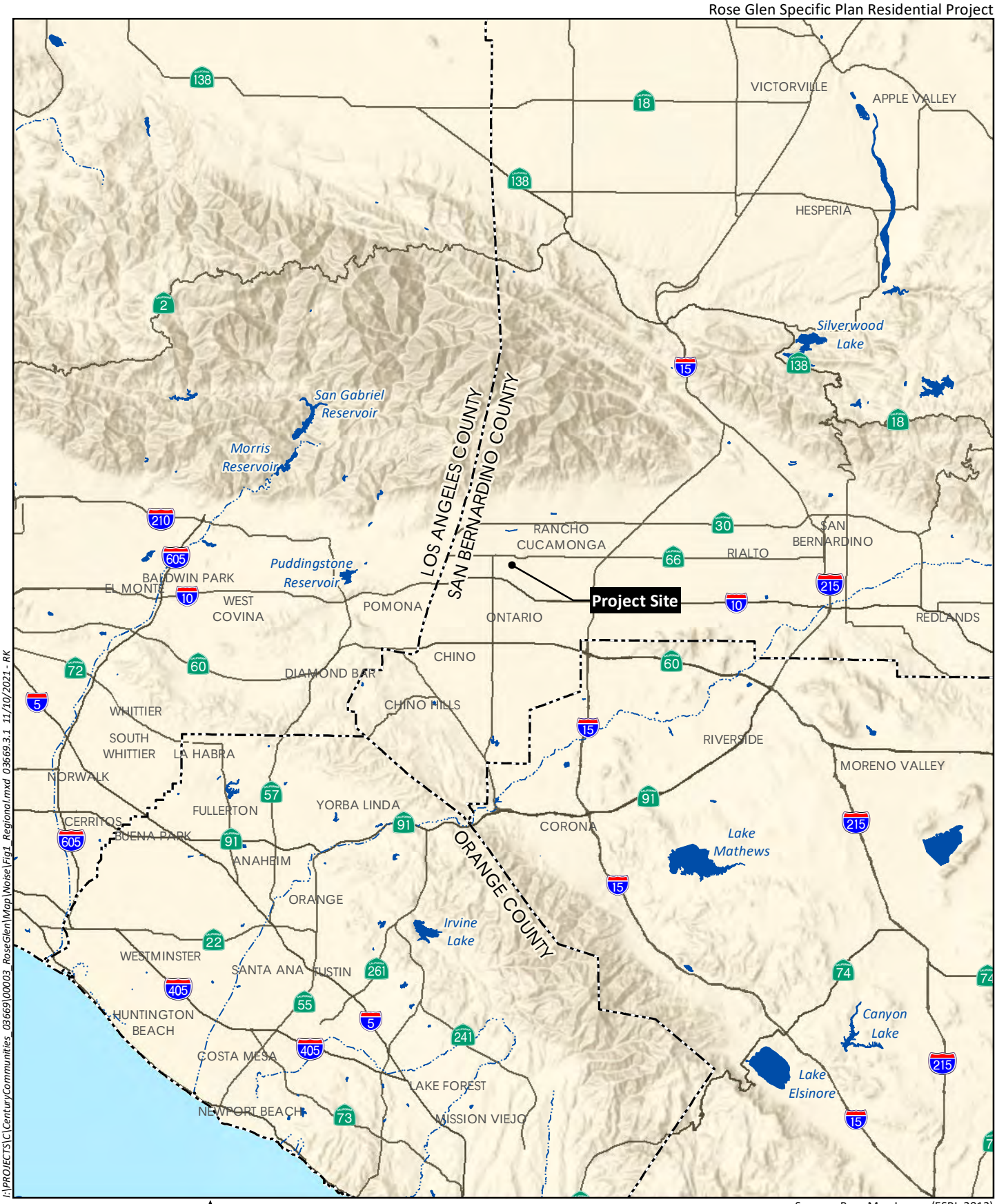
Sound Pressure Levels and Decibels

The amplitude of pressure waves generated by a sound source determines the loudness of that source. Sound pressure amplitude is measured in micro-Pascals (mPa). One mPa is approximately one hundred billionth (0.00000000001) of normal atmospheric pressure. Sound pressure amplitudes for different kinds of noise environments can range from less than 100 to 100,000,000 mPa. Because of this wide range of values, sound is rarely expressed in terms of mPa. Instead, a logarithmic scale is used to describe sound pressure level (SPL) in terms of dBA. The threshold of hearing for the human ear is about 0 dBA, which corresponds to 20 mPa.

1.3.2.3 Addition of Decibels

Because decibels are logarithmic units, SPL cannot be added or subtracted through standard arithmetic. Under the decibel scale, a doubling of sound energy corresponds to a 3 dBA increase. In other words, when two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be 3 dBA higher than from one source under the same conditions. For example, if one automobile produces an SPL of 70 dB when it passes an observer, two cars passing simultaneously would not produce 140 dBA—rather, they would combine to produce 73 dBA. Under the decibel scale, three sources of equal loudness together produce a sound level 5 dBA louder than one source.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear is able to discern 1 dBA changes in sound levels, when exposed to steady, single-frequency (“pure-tone”) signals



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0 8 Miles

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

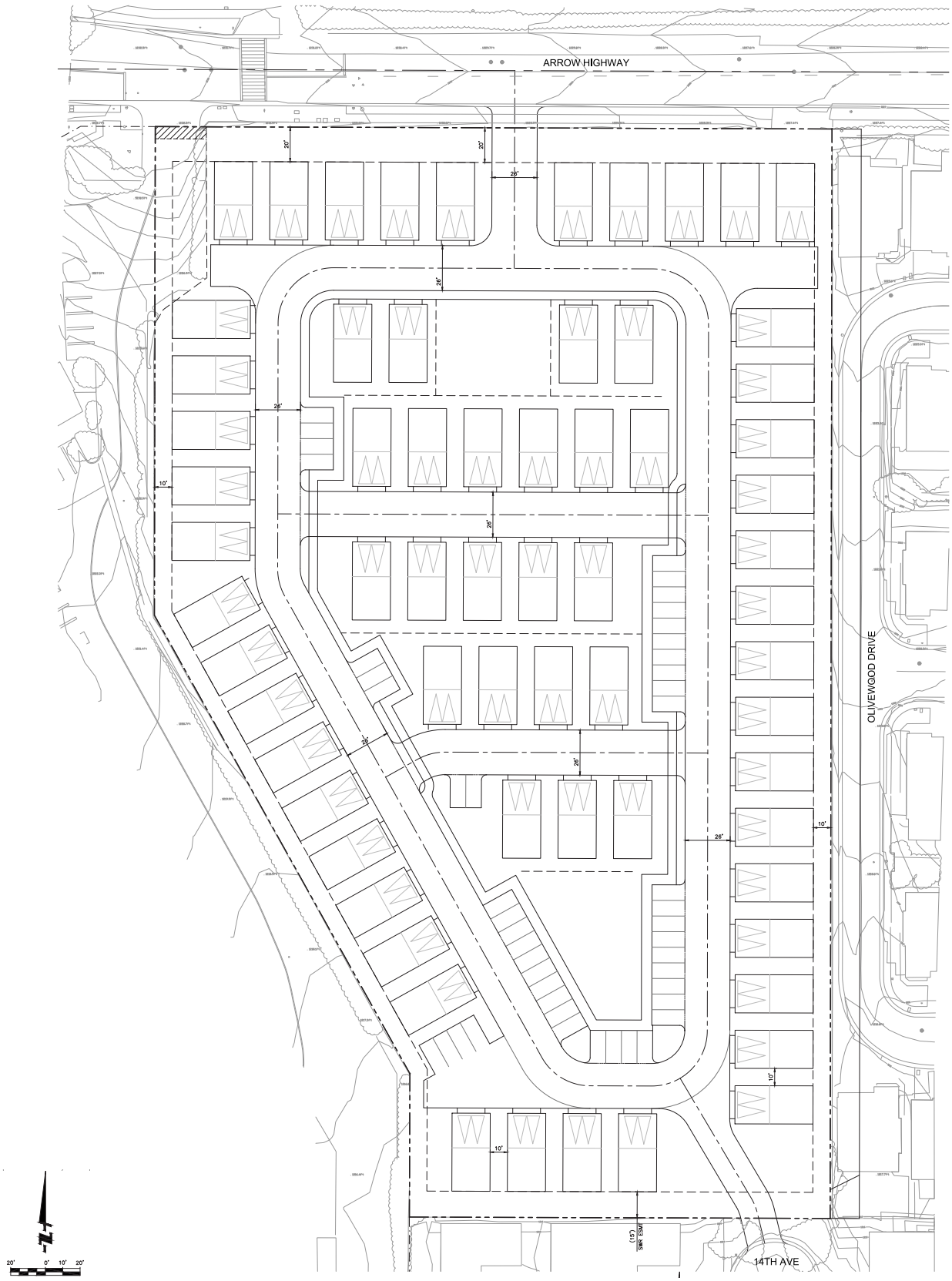
Figure 1

Source: Aerial (San Bernardino County, 2020)

HELIX Environmental Planning

Project Vicinity (Aerial Photograph)

Figure 2



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Source: X Engineering & Consulting 2021

HELIX Environmental Planning

Site Plan

Figure 3

in the mid-frequency (1,000 Hz–8,000 Hz) range. In typical noisy environments, changes in noise of 1 to 2 dBA are generally not perceptible. It is widely accepted, however, that people begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5 dBA increase is generally perceived as a distinctly noticeable increase, and a 10 dBA increase is generally perceived as a doubling of loudness.

No known studies have directly correlated the ability of a healthy human ear to discern specific levels of change in traffic noise over a 24-hour period. Many ordinances, however, specify a change of 3 CNEL as the significant impact threshold. This is based on the concept of a doubling in noise energy resulting in a 3 dBA change in noise, which is the amount of change in noise necessary for the increase to be perceptible to the average healthy human ear.

1.4 NOISE-SENSITIVE LAND USES

Noise-sensitive land uses (NSLUs) are land uses that may be subject to stress and/or interference from excessive noise, including residences, hospitals, schools, hotels, resorts, libraries, sensitive wildlife habitat, or similar facilities where quiet is an important attribute of the environment. Noise receptors are individual locations that may be affected by noise. NSLUs in the project vicinity include single-family residences to the west and south and a church to the southeast of the project site.

1.5 REGULATORY FRAMEWORK

1.5.1 California Noise Control Act

The California Noise Control Act is a section within the California Health and Safety Code that describes excessive noise as a serious hazard to the public health and welfare and that exposure to certain levels of noise can result in physiological, psychological, and economic damage. It also finds that there is a continuous and increasing bombardment of noise in the urban, suburban, and rural areas. The California Noise Control Act declares that the State of California has a responsibility to protect the health and welfare of its citizens by the control, prevention, and abatement of noise. It is the policy of the State to provide an environment for all Californians free from noise that jeopardizes their health or welfare.

1.5.2 City of Upland General Plan, Safety Element

The Safety Element of the City's General Plan includes a table of noise compatibility standards to assess the suitability of different categories of planned land uses based on exterior noise level exposure (Table SAF-1 from the City General Plan; City 2015). For the project's land use (single-family residential), the Safety Element specifies the highest level of noise exposure regarded as normally acceptable is 65 CNEL. Refer to Table 1, *Exterior Noise Compatibility Standards*, for each land use type and noise exposure limits.

Table 1
EXTERIOR NOISE COMPATIBILITY STANDARDS

Land Use Type	Highest Level of Noise Exposure that is Regarded as Normally Acceptable (L_{DN} or CNEL)
Residential – Low Density Single Family, Duplex, Mobile Homes	60
Residential – Multi-Family	65
Mixed-Use	70
Transient Lodging – Hotels, Motels	65
Schools, Libraries, Churches Hospitals, Nursing Homes	70
Auditoriums, Concert Halls, Amphitheaters	Mitigation based on site-specific study
Sports Arena, Outdoor Spectator Sports	Mitigation based on site-specific study
Playgrounds, Neighborhood Parks	70
Golf Courses, Riding Stables, Water Recreation, Cemeteries	75
Office Buildings – Commercial, Office/Professional	70
Industrial, Manufacturing, Utilities, Agriculture	75

Source: City 2015
L_{DN}=Day-Night Level; CNEL=Community Noise Equivalent Level; dBA=A-weighted decibel

1.5.3 City of Upland Municipal Code, Chapter 9.40, Unnecessary Noise

Chapter 9.40 of the City Municipal Code pertain to City noise requirements and enforcement of violations. Table 2, *Applicable Residential Noise Limits,* lists the applicable noise limits as measured at the exterior of any residential property. Noise levels shall not exceed the base ambient noise level for the periods specified.

Table 2
APPLICABLE RESIDENTIAL NOISE LIMITS

Noise Level Exceeded	Maximum Duration Period
Base ambient noise level	30 minutes in any hour
5 dBA above Base ambient noise level	15 minutes in any hour
10 dBA above Base ambient noise level	5 minutes in any hour
15 dBA above Base ambient noise level	1 minute in any hour
20 dBA above Base ambient noise level	Not permitted

Source: City Municipal Code Chapter 9.40.070

Base ambient noise levels for residential uses are defined as 45 dBA during nighttime hours of 10:00 p.m. to 7:00 a.m. and 55 dBA between 7:00 a.m. and 10:00 p.m. Actual measurements exceeding these at the times and within the zones corresponding shall be employed as the base ambient noise level. Otherwise, no ambient noise shall be deemed to be less than the specified levels.

The project's neighboring parcels to the east and south are residential, therefore noise levels during daytime hours shall not exceed 55 dBA and nighttime noise levels shall not exceed 45 dBA.

Chapter 9.40.100 of the Municipal Code states that it is unlawful for any person to engage in or permit the erection (including excavation), demolition, alteration, or repair of any building other than between the hours of 7:00 a.m. and 6:00 p.m. on weekdays.

Chapter 9.40.100 also states that it is unlawful for any person to operate, cause to operate or permit the operation of any machinery, equipment, device, pump, fan, compressor, air conditioning apparatus, or similar mechanical device in any manner so as to create any noise which would cause the noise level at the property line of any property to exceed the ambient noise base level by 5 dBA.

2.0 ENVIRONMENTAL SETTING

2.1 SURROUNDING LAND USES

Adjacent lands surrounding the project site include single-family residences to the east and south; the Cherokee Wood Products business to the west; and a truck storage yard to the north across East Arrow Highway. See Figure 2 for nearby land uses.

2.2 EXISTING NOISE ENVIRONMENT

The existing noise environment is defined by traffic noise from East Arrow Highway and the neighboring Cherokee Wood Products site. The project is subject to some distant aircraft noise, with the nearest airports being Ontario International Airport and Cable Airport, each located approximately 3 miles to the south and west, respectively.

2.2.1 Ambient Noise Survey

Two measurements were taken at and adjacent to the project site for the ambient noise survey. The first measurement was recorded adjacent to the Cherokee Wood Products site at the western boundary of the project site. This was a three-hour measurement to capture noise levels during the workday. A traffic measurement was conducted at the second measurement location, west of the project along East Arrow Highway. A traffic count was conducted to estimate the breakdown of heavy trucks (three or more axles), medium trucks (double tires/two axles), and automobiles along the roadway. The measured noise levels are shown in Table 3, *Noise Measurement Results.* Traffic counts for the timed measurement and the one-hour equivalent volume are shown in Table 4, *Recorded Traffic Volume and Vehicle Mix.* The site visit sheets are included in Appendix A, *Site Survey Measurement Sheets.* Measurement locations are shown on Figure 2.

Table 3
NOISE MEASUREMENT RESULTS

Measurement 1 – Ambient	
Date:	September 20, 2021
Conditions:	Temperature: 88°F. Wind Speed: 10 mph. 28% humidity. Sunny.
Time:	11:41 a.m. – 2:43 p.m.
Location:	Along the western boundary of the project site
Measured Noise Level:	58.8 dBA L_{EQ}
Notes:	Measurement placed away from existing operational noise from the project site, approximately 80 feet from the nearest warehouse building. Microphone directed toward operations at the Cherokee Wood Products site.
Measurement 2 – Ambient	
Date:	September 20, 2021
Conditions:	Temperature: 88°F. Wind Speed: 10 mph. 28% humidity. Sunny.
Time:	3:00 p.m. – 3:15 p.m.
Location:	25 feet from the centerline of East Arrow Highway, approximately 175 feet west of the project site's northwestern corner.
Measured Noise Level:	68.0 dBA L_{EQ}
Notes:	Noise primarily from traffic on East Arrow Highway, with some operational noise from Cherokee Wood Products site.

Table 4
RECORDED TRAFFIC VOLUME AND VEHICLE MIX

Measurement	Roadway	Traffic	Autos	MT[1]	HT[2]
1	East Arrow Highway	15-minute count	155	5	1
		One-hour equivalent	620	20	4
		Percent	96.7%	0.9%	2.3%

[1] Medium Trucks (double tires/two axles)

[2] Heavy Trucks (three or more axles)

3.0 ANALYSIS, METHODOLOGY, AND ASSUMPTIONS

3.1 METHODOLOGY

3.1.1 Ambient Noise Survey

The following equipment was used to measure existing noise levels at the project site:

- Larson Davis LxT Noise Meter
- Larson Davis Model CA250 Calibrator
- Windscreen and tripod for the sound level meter

The sound level meter was field-calibrated immediately prior to the noise measurements to ensure accuracy. All sound level measurements conducted and presented in this report were made with a sound level meter that conforms to the American National Standards Institute (ANSI) specifications for

sound level meters (ANSI SI.4-1983 R2006). All instruments were maintained with National Institute of Standards and Technology traceable calibration per the manufacturers' standards.

3.1.2 Noise Modeling Software

Modeling of the exterior noise environment for this report was accomplished using the Traffic Noise Model (TNM) version 2.5. TNM was released in February 2004 by the U.S. Department of Transportation (USDOT) and calculates the daytime average hourly L_{EQ} from three-dimensional model inputs and traffic data (California Department of Transportation [Caltrans] 2004). TNM was developed from Computer Aided Design (CAD) plans provided by the project applicant. Input variables included road alignment, elevation, lane configuration, area topography, existing and planned noise control features, projected traffic volumes, estimated truck composition percentages, and vehicle speeds.

The one-hour L_{EQ} noise level is calculated utilizing peak-hour traffic. Peak hour L_{EQ} can be converted to CNEL using the following equation, where $L_{EQ}(h)pk$ is the peak hour L_{EQ}, P is the peak hour volume percentage of the average daily trips (ADT), d and e are divisions of the daytime fraction of ADT to account for daytime and evening hours, and N is the nighttime fraction of ADT:

$$CNEL = L_{EQ}(h)pk + 10log10\ 4.17/P + 10log10(d + 4.77e + 10N)$$

The model-calculated one-hour L_{EQ} noise output is therefore approximately equal to the CNEL (Caltrans 2013).

Project construction noise was analyzed using the Roadway Construction Noise Model (RCNM; USDOT 2008), which utilizes estimates of sound levels from standard construction equipment.

3.2 ASSUMPTIONS

3.2.1 Construction

Construction would require the use of equipment throughout the site for the full term of construction. General project construction activities would include site clearing, demolition, grading, underground utility installation, physical building construction, paving, and application of architectural coatings. The most prominent noise-generating standard construction equipment anticipated to be used on the site includes excavators, front-end loaders, backhoes, graders, dozers, rollers, and pavers.

Demolition would be required for an existing on-site structure and pavements. Grading of the site would require 2,727 CY of import, which is anticipated to be imported via 170 haul truck trips over the course of 10 days, or 17 trips per day.

3.2.2 Operations

The proposed project's operational noise sources are anticipated to include heating, ventilation, and air conditioning (HVAC) systems and vehicular traffic. During operations, the project would also be exposed to vehicular traffic noise from East Arrow Highway located adjacent to the northern boundary of the project site.

3.2.3 Cherokee Wood Products Noise

Noise from the adjacent Cherokee Wood Products property to the east would also be audible at the project site. As described in Section 2.2., a three-hour measurement was conducted to approximate the noise levels generated by adjacent operations. Operational noise was measured at 58.8 dBA L_{EQ}, however this measurement may not have captured the highest noise levels from the neighboring property. As a conservative estimate, it is assumed that noise levels from the Cherokee Wood Products operations would generate 60 dBA during a given hour. Over the course of a workday (6:00 a.m. to 6:00 p.m.), this would translate to approximately 62.3 CNEL. No single noise source from the neighboring property is solely attributable to the measured noise level, so the 62.3 CNEL measurement at the property line is conservatively assumed at all adjacent property lines to the west.

3.2.3.1 Heating, Ventilation, and Air Conditioning Units

The analysis assumes that the buildings would use a typical to larger-sized residential condenser mounted on ground level pads. The unit used in this analysis is a Carrier 38HDR060 split system condenser (see Appendix B, *Carrier 38HDR060 Split System Condenser*). The manufacturer's noise data is provided below in Table 5, *Carrier HDR060 Condenser Noise*.

Table 5
CARRIER HDR060 CONDENSER NOISE

125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	Overall Noise Level in A-weighted Scale (dBA)[1]
63.0	61.5	64.0	66.5	66.0	64.5	55.5	72.0

[1] Sound Power Level (S_{WL})
* Noise Levels in Decibels (dB) Measured at Octave Frequencies
KHz = kilohertz

3.2.3.2 Vehicular Traffic

Traffic volume data along East Arrow Highway was provided from peak hour traffic counts taken as part of the Program Environmental Impact Report for the City's General Plan (City 2015), and the project's trip generation were provided by Kimley Horn (2021). Based on the traffic counts taken during the site visit, a traffic distribution of 96.7 percent automobiles, 1 percent medium trucks, and 2.3 percent heavy trucks was used in this analysis for non-project traffic along East Arrow Highway. The project's traffic distribution would utilize this roadway segment and is conservatively assessed for both directions away from the project's driveway. Table 6, *Existing Plus Project Traffic Volumes*, summarizes the peak hour trip data for East Arrow Highway.

Table 6
EXISTING PLUS PROJECT TRAFFIC VOLUMES

Roadway Segment	Peak Hour Existing	Peak Hour Existing + Project
East Arrow Highway		
East of project driveway	642	678
West of project driveway	642	678

Source: City 2015, Kimley Horn 2021
Peak hour uses p.m. hour data

3.3 GUIDELINES FOR THE DETERMINATION OF SIGNIFICANCE

Based on Appendix G of the CEQA Guidelines, implementation of the project would result in a significant adverse impact if it would:

Threshold 1: *Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the City General Plan or noise ordinance.*

Per the City Noise Ordinance, impacts would be significant if the project would generate noise levels at a common property line with the adjacent single-family residential zone to the west that would exceed the following baseline ambient noise levels for residential uses: 55 dBA from 7:00 a.m. to 10:00 p.m. and 45 dBA from 10:00 p.m. to 7:00 a.m. The Municipal Code further prohibits noise generated by HVAC units to exceed the baseline ambient noise base level by 5 dBA, as measured at the property line.

For traffic-related noise, impacts are considered significant in areas where traffic noise at single-family residential uses exceeds 65 CNEL and implementation of the project would result in an increase of the noise level by 3 CNEL or more, a perceptible increase.

The Municipal Code prohibits construction and building work between the hours of 6:00 p.m. and 7:00 a.m. on weekdays. For the purposes of this analysis, construction noise would be significant if it exceeds the baseline ambient noise level by 10 dBA. For residential areas, impacts would be significant if construction noise levels exceed 65 dBA (since the ordinance establishes baseline exterior noise levels at 55 dBA).

Threshold 2: *Generate excessive ground-borne vibration or ground-borne noise levels.*

Excessive ground-borne vibration would occur if construction-related ground-borne vibration exceeds the “strongly perceptible” vibration annoyance potential criterion for human receptors of 0.1 inch per second peak particle velocity (PPV) or the damage potential criterion to relatively old residential structures 0.5 inch per second PPV for continuous/frequent intermittent construction sources (such as impact pile drivers, vibratory pile drivers, and vibratory compaction equipment), as specific by Caltrans (2020).

Threshold 3: *For a project located within the vicinity of a private airstrip or an airport land use plan, or where such a plan has not been adopted, within two miles of a public use airport or private airstrip, expose people residing or working in the project area to excessive noise.*

Excessive noise exposure is defined as noise levels that exceed the standards in the City General Plan Safety Element for the associated land use.

Threshold 4: *General Plan Noise Element compliance for new uses.*

Future land uses would be compliant with the City General Plan Noise Element if the project's residential exterior use areas are exposed to noise levels equal to and below 65 CNEL and interior noise levels are equal to and below 45 CNEL.

4.0 IMPACTS

4.1 ISSUE 1: EXCESSIVE NOISE LEVELS

Would the project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the City General Plan or noise ordinance.

4.1.1 Operational On-site Noise Generation

The project would include HVAC units at ground-level locations adjacent to each proposed residence. Specific locations and planning data for the future HVAC units is not available at this stage of project design. This report assumes that HVAC units would be located on the sides of the proposed residences. Further, as mentioned in Section 3.2.2.1, modeling assumed that the HVAC unit would be a Carrier 38HDR060 split system condenser. A single unit typically generates a noise level of 56 dBA at a distance of 7 feet. Assuming HVAC units are located adjacent to the proposed residence, each unit is assumed to operate at distances of approximately 10 feet from the nearest residence to the east and 15 feet from the nearest residence to the south. At 10 feet, noise levels from a proposed HVAC unit would be 53 dBA. The City Municipal Code's requires that HVAC noise levels not exceed the ambient baseline noise level by 5 dBA. For residential uses, HVAC units are prohibited from exceeding 5 dBA above 45 dBA nighttime limits. Nighttime noise levels from an HVAC unit would therefore exceed the 50 dBA nighttime limits without attenuation.

The project does not propose noise barriers, however existing concrete masonry unit walls are part of the existing conditions along the eastern and southern edges of the project. An approximately 10-foot high wall is located adjacent to the project that would be located adjacent to proposed residences, as shown in Figure 2. A wall of approximately 6-feet in height is currently located along the project's southern boundary. The line-of-sight between the proposed HVAC units and nearby properties would therefore be broken by a solid barrier. These existing walls would reduce noise levels by the 3 dBA necessary to meet the City's Municipal Code requirements. Impacts from the project's operations would therefore be less than significant.

4.1.2 Operational Off-site Transportation Noise Generation

The project would generate vehicular traffic that would utilize East Arrow Highway and have the potential to result in increased noise levels at existing single-family residences nearby. TNM software

was used to calculate the noise contour distances for Existing and Existing Plus Project conditions along East Arrow Highway. As noted in the assumptions, Existing and Existing Plus Project traffic noise levels presented in this analysis are based on peak hour traffic volumes provided by Kimley Horn (2021). Refer to Table 6 for the forecasted peak hour data for existing and project-added traffic volumes.

The off-site roadway modeling represents a conservative analysis that does not consider topography or attenuation provided by existing structures. The results of this analysis for the CNEL at the nearest NSLUs to the roadway centerline of East Arrow Highway Street are shown below in Table 7, *Off-site Traffic Noise Levels.*

Table 7
OFF-SITE TRAFFIC NOISE LEVELS

Roadway Segment	Distance to Nearest NSLU	CNEL at Distance to Nearest NSLU Existing	CNEL at Distance to Nearest NSLU Existing Plus Project	CNEL at Distance to Nearest NSLU Change from Existing	Direct Impact[1]
East Arrow Highway					
East of Project Driveway	35	64.5	64.8	+0.3	No
West of Project Driveway	60	61.0	61.2	+0.2	No

[1] A direct impact to off-site uses would occur if existing noise levels exceed 65 CNEL at single family residences and the project more than doubles (increases by more than 3 CNEL) the existing noise level.
NSLU = noise sensitive land use; CNEL = Community Noise Equivalent Level

Impacts would be significant in areas where traffic noise at single-family residential uses exceeds the 65 CNEL maximum noise level specified in the City's General Plan Safety Element and implementation of the project results in a significant increase in noise levels, which is considered greater than a perceptible change of 3 CNEL over existing conditions. As shown in Table 7, noise levels would increase by 0.3 CNEL which would not be a perceptible increase in noise. In addition, noise levels are modeled below the 65 CNEL General Plan standard for both the Existing and Existing Plus Project scenarios. Therefore, impacts from project-generated traffic would be less than significant.

4.1.3 On-site Construction Noise Generation

Construction of the project would require site clearing, demolition of existing structures, grading, installation of underground utilities/infrastructure, construction of new buildings, paving, and architectural coating. The magnitude of the noise impact would depend on the type of construction activity, equipment, duration of each construction phase, distance between the noise source and receiver, and any intervening structures. Construction would generate elevated noise levels that may disrupt nearby residences to the east and south of the project site. Construction would take place at varying distances from residences, depending on the construction phase. Construction equipment locations would vary within a given day, with the approximate average distance from the project site to nearby residences being 200 feet. For the purposes of this report, construction noise is calculated at the 100-foot distance, or the approximate distance from the on-site buildings to be demolished to nearby residences. Table 8, *Construction Equipment Noise Levels*, provides the 100-foot distance noise levels for equipment anticipated to be used for general construction activities.

Table 8
CONSTRUCTION EQUIPMENT NOISE LEVELS

Unit	Percent Operating Time	L_{MAX} at 50 feet	dBA L_{EQ} at 50 feet
Backhoe	40	71.5	67.6
Compactor	20	77.2	70.2
Compressor	40	71.6	67.7
Concrete Mixer Truck	40	72.8	68.8
Concrete Pump Truck	20	75.4	68.4
Dozer	40	75.6	71.7
Dump Truck	50	70.4	66.5
Grader	40	79.0	75.0
Excavator	40	74.7	70.7
Front End Loader	40	73.1	69.1
Paver	50	71.2	68.2
Roller	20	74.0	67.0
Loader/Dump Truck	N/A	73.1	71.0

Source: RCNM
L_{MAX} = maximum noise level; dBA = A-weighted decibel; L_{EQ} = equivalent sound level

The City Municipal Code prohibits construction and building work between the hours of 6:00 p.m. and 7:00 a.m. on weekdays. Project construction would therefore only occur during daytime hours. The construction equipment shown in Table 8 would exceed the 55 dBA daytime baseline ambient noise level for residential land uses as defined in the City Municipal Code by over 10 dBA L_{EQ}. The modeling results do not include existing noise barriers, such as the approximately 10-foot and 6-foot concrete masonry unit walls located on the project's eastern and southern boundaries, respectively. These walls are solid with no gaps or perforations and would therefore serve to reduce noise levels from construction. However, construction equipment exhaust pipes may be located approximately 7 to 8 feet above ground, so the barriers may not adequately reduce noise levels. To reduce impacts on nearby residences from construction noise, implementation of mitigation measure NOI-1 would ensure that the potential impact is reduced to a less than significant level.

NOI-1 **Construction Noise Management Plan.** Noise levels from project-related construction activities shall not exceed 65 dBA, defined as 10 dBA above the daytime baseline ambient noise levels defined in the City Municipal Code (55 dBA for residential uses), as measured at the neighboring land use. A Construction Management Plan that describes the measures included on the construction plans to ensure compliance with the noise limit shall be prepared by the project applicant and submitted to the City of Upland for approval prior to issuance of the grading permit. The following measures may be included to reduce construction noise:

- Construction equipment to be properly outfitted and maintained with manufacturer-recommended noise-reduction devices.

- Diesel equipment to be operated with closed engine doors and equipped with factory-recommended mufflers.

- Mobile or fixed "package" equipment (e.g., arc-welders and air compressors) to be equipped with shrouds and noise control features that are readily available for that type of equipment.

- Electrically powered equipment to be used instead of pneumatic or internal combustion powered equipment, where feasible.

- Unnecessary idling of internal combustion engines (e.g., in excess of 5 minutes) to be prohibited.

- Material stockpiles and mobile equipment staging, parking, and maintenance areas to be located as far as practicable from noise sensitive receptors.

- The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.

- No project-related public address or music system shall be audible at any adjacent sensitive receptor.

- Temporary sound barriers or sound blankets may be installed between construction operations and adjacent noise-sensitive receptors. Due to equipment exhaust pipes being approximately 7 to 8 feet above ground, a sound wall at least 10 feet in height above grade as measured at the neighboring parcels, would be located along the southern property line between the project and neighboring residences to mitigate noise levels to within acceptable levels. If barriers are to be used, the sound barrier should be constructed of a material with a minimum weight of two pounds per square foot with no gaps or perforations and remain in place until the conclusion of demolition, grading, and construction activities.

- The project applicant shall notify residences within 100 feet of the project's property line in writing within one week of any construction activity such as demolition, concrete sawing, asphalt removal, and/or heavy grading operations. The notification shall describe the activities anticipated, provide dates and hours, and provide contact information with a description of a complaint and response procedure.

- The on-site construction supervisor shall have the responsibility and authority to receive and resolve noise complaints. A clear appeal process for the affected resident shall be established prior to construction commencement to allow for resolution of noise problems that cannot be immediately solved by the site supervisor.

4.1.4 Construction Traffic Noise

As discussed in Section 3.2.1., it is anticipated that 170 round trips would be required for soil import over the course of 10 days during the grading phase of construction, which would equate to 17 round trips per day. Over the course of an eight-hour construction day, it is assumed 4 haul truck trips would occur per hour, including the round trips for each truck. This daily traffic level associated with soil export is anticipated to be the highest daily traffic level associated with project construction.

The existing traffic volume and the increased traffic volume from construction were input into TNM on East Arrow Highway. Receivers were modeled at 35 feet from the roadway centerline (the approximate distance to the nearest single family residential NSLUs), and construction haul trips were modeled as heavy trucks. As presented above in Table 7 of Section 4.1.3, the modeled existing traffic noise level along this segment of Phillips Street is 64.5 CNEL. The addition of the project's haul truck trips during the grading phase of construction would increase noise levels to 64.8 CNEL, which represents a 0.3 CNEL increase. This would not be a perceptible increase in noise levels, and noise levels would remain below the 65 CNEL maximum exterior noise limit guideline for residential uses set forth in the City's General Plan Noise Element. Further, this increase in noise from haul trucks would be temporary (estimated at 10 days) and would cease upon the completion of construction. Therefore, impacts from construction traffic noise would be less than significant.

4.2 ISSUE 2: EXCESSIVE VIBRATION

Would the project expose persons to or generate excessive ground-borne vibration or noise levels?

4.2.1 Construction Vibration

A possible source of vibration during general project construction activities would be a vibratory roller, which may be used for compaction of soil beneath building foundations and could be used within 50 feet of off-site residences. Most usage of a vibratory roller, however, would occur at distances greater than 50 feet from any single residence due to the mobile nature of its use across the project site. A vibratory roller would create approximately 0.210 inch per second PPV at a distance of 25 feet (Caltrans 2020). A 0.210 inch per second PPV vibration level would equal 0.098 inch per second PPV at a distance of 50 feet.[1] This would be lower than the structural damage impact to older structures of 0.5 inch per second PPV and the "strongly perceptible" impact for humans of 0.1 inch per second PPV. Additionally, off-site exposure to such ground-borne vibration would be temporary as it would be limited to the short-term construction period. Therefore, even though vibration may be perceptible at nearby residences, temporary impacts associated with the roller (and other potential equipment) would be less than significant.

4.2.2 Operational Vibration

As a residential development, the project would not generate excessive ground-borne vibration during operations; therefore, no impacts would occur.

4.3 ISSUE 3: AIRPORT NOISE EXPOSURE

Would the project expose people residing or working in the project area to excessive noise from a nearby public use airport or private airstrip?

4.3.1 Aircraft Noise

The project is subject to some distant aircraft noise. The nearest airports are Ontario International Airport, located approximately 3 miles to the south and Cable Airport, located approximately 3 miles to

[1] Equipment PPV = Reference PPV * $(25/D)^n$ (inches per second), where Reference PPV is PPV at 25 feet, D is distance from equipment to the receiver in feet, and n = 1.1 (the value related to the attenuation rate through the ground); formula from Caltrans 2013.

the west. According to the Ontario International Airport's Airport Land Use Compatibility Plan (ALUCP), the project site is not within the airport's 60 CNEL noise impact zone (Mead and Hunt 2011). Similarly, the project site is not located within a noise impact zone for Cable Airport (Mead and Hunt 2015). Therefore, at these distances, no effects related to airport noise would occur at the project site, and impacts would be less than significant.

4.4 ISSUE 4: GENERAL PLAN SAFETY ELEMENT COMPLIANCE

Future land uses would be compliant with the City General Plan Safety Element if the project's residential exterior use areas are exposed to noise levels below 65 CNEL and interior noise levels are below 45 CNEL.

4.4.1 Exposure to Excessive Noise

4.4.1.1 Exterior Noise Levels

Future on-site residential land uses would be exposed to noise from vehicular traffic along East Arrow Highway adjacent to the project site. The noise levels associated with vehicular traffic were modeled at the project site using TNM. Impacts related to exterior noise would be significant if future residential uses are exposed to noise levels in excess of the 65 CNEL limit set forth in the City General Plan Safety Element. Modeling of Existing + Project traffic along East Arrow Highway indicates that noise levels would exceed 65 CNEL for all receivers within 30 feet of the roadway. According to the site plan, the 65 CNEL contour would not extend into the project site, as measured from the roadway centerline. At this distance, noise levels from the roadway would not exceed the limits set forth in the City General Plan for residential uses, and the project's proposed land use would therefore be compatible with the site's noise conditions.

Noise levels generated by the neighboring Cherokee Wood Products were calculated to be approximately 62.3 CNEL at the project's western boundary, although noise-generating activities at the adjacent property may fluctuate depending on the activities being performed. With the included 6-foot noise barrier to be built as part of the project, it is anticipated that noise levels from the adjacent property would not exceed the 65 CNEL limits set for residential uses, and the project's proposed land use would therefore be compatible with the site's noise conditions.

4.4.1.2 Interior Noise Levels

Traditional architectural materials are conservatively estimated to attenuate noise levels by 15 CNEL; therefore, if exterior noise levels at building façades exceed 60 CNEL, interior noise levels may exceed the 45 CNEL limit set forth in the City General Plan Safety Element for residential uses. Noise levels from East Arrow Highway would exceed 60 CNEL within 65 feet from the roadway centerline. Additionally, noise levels from the Cherokee Wood Products site would generate noise levels of approximately 62.3 CNEL at the western property line. Therefore, façades exposed to these elevated noise levels would not be guaranteed to comply with the 45 CNEL limits.

As a final site plan and floor plans are not available at this point in project planning, the precise individual residences and habitable rooms that would be exposed to noise levels cannot be determined. Due to the attenuation of the proposed project's structures, it is assumed that only those habitable rooms with a direct line-of-sight to East Arrow Highway and the neighboring Cherokee Wood Products

building would be expected to exceed the interior noise limits. As a conservative estimate, this report concludes that all residential façades located within 50 feet of the project's northern and western property lines would require mitigation measure NOI-2 to ensure interior noise level compliance.

NOI-2 Noise-attenuating Building Materials. For the project's habitable areas (both living rooms and bedrooms) within 50 feet of East Arrow Highway and the Cherokee Wood Products site, the following measures shall be incorporated in the design of the project to reduce interior noise levels to 45 CNEL or less:

- Minimum exterior wall requirement of STC 46 with a construction of standard 3/8-inch exterior one coat stucco over 1.0-inch rigid R-4 insulation over 1/2-inch shearwall on 2x6 studs with 5/8-inch Type "X" Drywall.

- Minimum window requirement of STC 28 with a vinyl frame window construction of dual glazing window thickness 1/8-inch and 1/2-inch air gap.

- Appropriate means of air circulation and provision of fresh air intake shall be incorporated in the project to allow windows to remain closed for extended intervals of time so that acceptable levels of noise can be maintained on the interior.

- Buildings shall provide mechanical ventilation in accordance with the 2019 California Mechanical Code.

5.0 LIST OF PREPARERS

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Joanne Dramko, AICP, Principal Noise Specialist, QA/QC
Kara Palm, Project Manager

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Appendix A

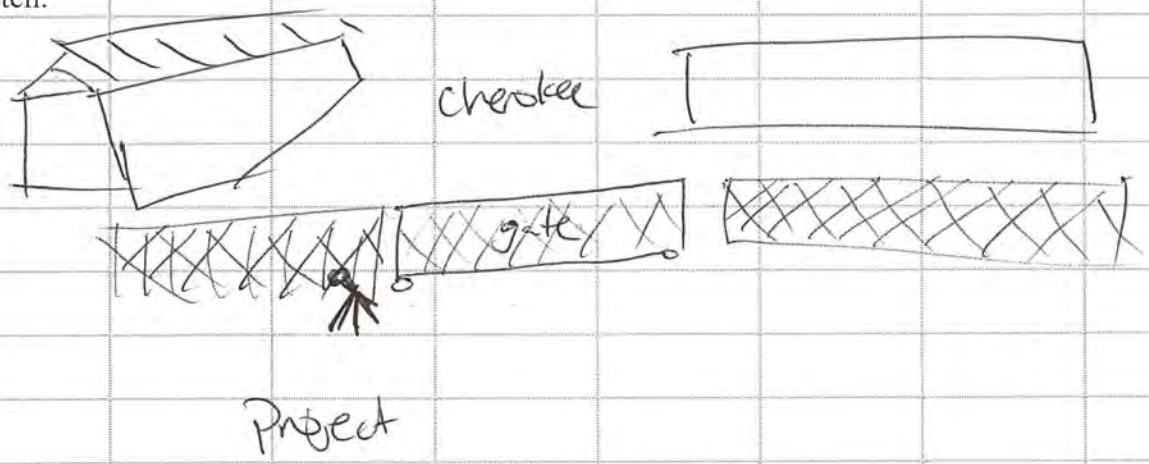
Site Survey Measurement Sheets

Site Survey

Job #		Project Name: Arrow 32	
Date: 9/20/2021	Site #: 1	Engineer: *Jason Runyan*	
Address: 1400 E. Arrow Hwy.			
Meter: LxT	Serial #: 1390	Calibrator: CA250	Serial #: 1741

Notes: 3-hour measurement. Microphone pointed toward Cherokee away from project site operational noise

Sketch:



Temp: 88 °F	Wind Spd: ~10 mph	Humidity: ~28 %
Start of Measurement: 1141 AM	End of Measurement: 243 PM	58.8 dBA L_{EQ}

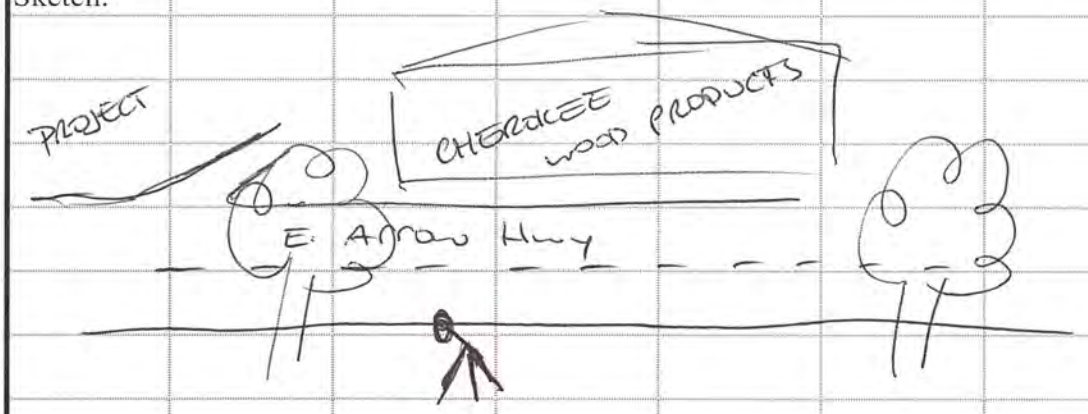
Cars (tally per 5 cars)	Medium Trucks (MT)	Heavy Trucks (HT)
Noise Measurement for Information Only No Through Roadways No Calibration Analysis Will Be Provided		

Site Survey

Job #	Project Name: Arrow 32		
Date: 9/20/2021	Site #: 2	Engineer: *Jason Runyan*	
Address: 1390 E. Arrow Hwy			
Meter: LxT	Serial #: 1390	Calibrator: CA250	Serial #: 1741

Notes: Audible noise from projed site operations. & traffic.

Sketch:



Temp: 88°F	Wind Spd: ~10 mph	Humidity: 28 %
Start of Measurement: 3:00 pm	End of Measurement: 3:15 pm	68.0 dBA L_{EQ}

Cars (tally per 5 cars)	Medium Trucks (MT)	Heavy Trucks (HT)
𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 I (155)	𝍸 (5)	I (1)

Noise Measurement for Information Only

No Through Roadways

No Calibration Analysis Will Be Provided

Appendix B

Carrier 38HDR060 Split System Condenser

ELECTRICAL DATA

38HDR UNIT SIZE	V–PH–Hz	VOLTAGE RANGE*		COMPRESSOR		OUTDOOR FAN MOTOR			MIN CKT AMPS	FUSE/ HACR BKR AMPS
		Min	Max	RLA	LRA	FLA	NEC Hp	kW Out		
018	208/230–1–60	187	253	9.0	48.0	0.80	0.125	0.09	12.1	20
024	208/230–1–60	187	253	12.8	58.3	0.80	0.125	0.09	16.8	25
030	208/230–1–60	187	253	14.1	73.0	1.45	0.25	0.19	19.1	30
036	208/230–1–60	187	253	14.1	77.0	1.45	0.25	0.19	19.1	30
	208/230–3–60	187	253	9.0	71.0	1.45	0.25	0.19	12.7	20
	460–3–60	414	506	5.6	38.0	0.80	0.25	0.19	7.8	15
048	208/230–1–60	187	253	21.8	117.0	1.45	0.25	0.19	28.7	50
	208/230–3–60	187	253	13.7	83.1	1.45	0.25	0.19	18.6	30
	460–3–60	414	506	6.2	41.0	0.80	0.25	0.19	8.6	15
060	208/230–1–60	187	253	26.4	134.0	1.45	0.25	0.19	34.5	60
	208/230–3–60	187	253	16.0	110.0	1.45	0.25	0.19	21.5	35
	460–3–60	414	506	7.8	52.0	0.80	0.25	0.19	10.6	15

* Permissible limits of the voltage range at which the unit will operate satisfactorily

FLA – Full Load Amps
HACR – Heating, Air Conditininng, Refrigeration
LRA – Locked Rotor Amps
NEC – National Electrical Code
RLA – Rated Load Amps (compressor)

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.
All motors/compressors contain internal overload protection.

SOUND LEVEL

Unit Size	Standard Rating (dB)	Typical Octave Band Spectrum (dBA) (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018	68	52.0	57.5	60.5	63.5	60.5	57.5	46.5
024	69	57.5	61.5	63.0	61.0	60.0	56.0	45.0
030	72	56.5	63.0	65.0	66.0	64.0	62.5	57.0
036	72	65.0	61.5	63.5	65.0	64.5	61.0	54.5
048	72	58.5	61.0	64.0	67.5	66.0	64.0	57.0
060	72	63.0	61.5	64.0	66.5	66.0	64.5	55.5

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE–VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
018	12 (6.7)
024	12 (6.7)
030	12 (6.7)
036	12 (6.7)
048	12 (6.7)
060	12 (6.7)

IS/MND Appendix G

Traffic Impact Analysis

TRAFFIC IMPACT ANALYSIS

ARROW 32N RESIDENTIAL

PREPARED FOR:

CITY OF UPLAND, CALIFORNIA

SEPTEMBER 2021 | DRAFT

Prepared By:

Kimley»Horn

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CONTENTS

Contents ii
Tables ii
Figures iii
APPENDIX iii
Executive Summary i
- Trip Generation i
- Project Impacts and Operational Deficiencies i
- Project Improvements i

1. Introduction 1
   - Study Methodology 1
2. Existing (2021) Conditions 8
   - Roadway Network 8
   - Study Intersection Lane Configuration and Traffic Control 9
   - Peak-Hour Turning Movement Volumes 9
   - Pedestrian Facilities 12
   - Bicycle Facilities 12
   - Transit Facilities 12
3. Project Description 13
   - Proposed Site Operations 13
   - Project Frontage Improvements 13
   - Trip Generation 13
   - Project Trip Distribution and Assignment 14
4. Vehicle Miles Traveled (VMT) Analysis 17
5. Level Of Service Analysis 17
   - Existing (2021) Conditions Analysis 17
   - Opening year (2024) without project Conditions Analysis 19
   - Opening Year (2024) With Project Conditions Analysis 22
6. Additional Topics 24
   - Site Access 24
7. Conclusions and Recommendation Summary 25

APPENDIX 26

TABLES

Table 1: Study Intersections 4
Table 2: Intersection Level of Service Definitions 6
Table 3: Existing Transit Service 12
Table 4: Project Trip Generation 13
Table 5: Existing (2021) Level of Service Analysis Summary 18

Table 6: Opening Year (2024) Level of Service Summary Comparison 21

FIGURES

Figure 1: Regional Vicinity Map 2

Figure 2: Project Site Plan 3

Figure 3 Study Area 5

Figure 4: Existing (2021) Intersection and Roadway Segment Geometrics 10

Figure 5: Existing (2021) Peak Hour Turning Movements 11

Figure 6: Project Trip Distribution 15

Figure 7: Project Trip Assignment 16

Figure 8: Opening Year (2024) Without Project Conditions Peak Hour Turning Movements 20

Figure 9: Opening Year (2024) with Project Conditions Peak Hour Turning Movements 23

APPENDIX

A – APPROVED TRAFFIC SCOPE OF WORK MEMO

B – PROPOSED SITE PLAN

C – LEVEL OF SERVICE CALCULATION SHEETS

D – VEHICLE MILES TRAVELED MEMORANDUM

EXECUTIVE SUMMARY

The following Traffic Impact Analysis (TIA) has been prepared to determine potential Vehicle Miles Traveled (VMT) impacts and/or Level of Service (LOS) deficiencies associated with the Arrow 32N Residential (Project), an approximately 4.9-acre site planned to hold 65 detached condos, 162 parking spaces and 30,000 square feet of open space. Within the city of Upland, the proposed site is located along E Arrow Highway, bordered by Grove Avenue (east), North 14th Avenue (south), and North 11th Avenue (west). Currently, a lumber yard is located on the Project site, as the site is designated as a Light Industrial land use zone per the City of Upland Zoning Code. The Project proposes to update the current Light Industrial use zone to a Residential Multi-Family Land Use Zone (Low). The multi-family low zone is intended to provide areas for a variety of low-density multi-family residential developments at densities up to 10 units per net acre exclusive of City and state density bonuses. These lots are typically characterized by shared open space with lush landscaping; medium front, side, and rear yards, and shared driveway and parking. The Project proposes a 65-unit residential development, with ample parking and open space for residents and visitors. The Project proposes the refurbishment of one existing driveway, which will provide access to residents and visitors. The Project would be developed in one phase with completion expected in 2024.

This TIA addresses the Project's VMT and LOS effects in order to assist the City of Upland with planning and the identification of conditions of approval, and to mitigate the Project's VMT impacts or improve identified LOS deficiencies, if necessary.

TRIP GENERATION

The Project is expected to generate 476 daily unadjusted trips, with 30 trips (7 inbound/ 23 outbound) during the a.m. peak hour and 36 trips (23 inbound / 13 outbound) during the p.m. peak hour.

PROJECT IMPACTS AND OPERATIONAL DEFICIENCIES

VMT ANALYSIS

A CEQA VMT analysis has been prepared to determine and evaluate the potential VMT impacts associated with the Project and is summarized in a memorandum contained in **Appendix D**. The VMT analysis memorandum concludes that the Project is located within a Low VMT-Generation area and is less than the region-wide average. Therefore, the Project is screened out based on the low VMT-Generating area screening. **As such, the Project does not have a significant VMT impact based on the initial VMT screening.**

PROJECT IMPROVEMENTS

PROJECT FRONTAGE IMPROVEMENTS

To facilitate site access, the Project would refurbish the existing driveway along the Project's frontage on Arrow Highway to a side street stop controlled full-access driveway, providing access to residents and visitors.

OFF-SITE RECOMMENDATIONS

No off-site recommendations are planned within the study area, as there are no impacts to the existing network generated from the Project.

1. INTRODUCTION

The following Traffic Impact Analysis (TIA) has been prepared to determine potential Vehicle Miles Traveled (VMT) impacts and/or Level of Service (LOS) deficiencies associated with the Arrow 32N Residential (Project), an approximately 4.9-acre site planned to hold 65 detached condos, 162 parking spaces and 30,000 square feet of open space. Within the city of Upland, the proposed site is located along E Arrow Highway, bordered by Grove Avenue (east), North 14th Avenue (south), and North 11th Avenue (west). Currently, a lumber yard is located on the Project site, as the site is designated as a Light Industrial land use zone per the City of Upland Zoning Code. The Project proposes to update the current Light Industrial use zone to a Residential Multi-Family Zone (Low). The multi-family low zone is intended to provide areas for a variety of low-density multi-family residential developments at densities up to 10 units per net acre exclusive of city and state density bonuses. These lots are typically characterized by shared open space with lush landscaping; medium front, side, and rear yards, and shared driveway and parking. The Project proposes a 65-unit residential development, with ample parking and open space for residents and visitors. The Project proposes the refurbishment of one existing driveway, which will provide access to residents and visitors. The Project would be developed in one phase with completion expected in 2024. **Figure 1** depicts the Project location and study area. **Figure 2** shows the proposed site plan.

This TIA addresses the Project's VMT and LOS effects in order to assist the city of Upland with planning and the identification of conditions of approval, and to mitigate the Project's VMT impacts or improve identified LOS deficiencies, if necessary.

STUDY METHODOLOGY

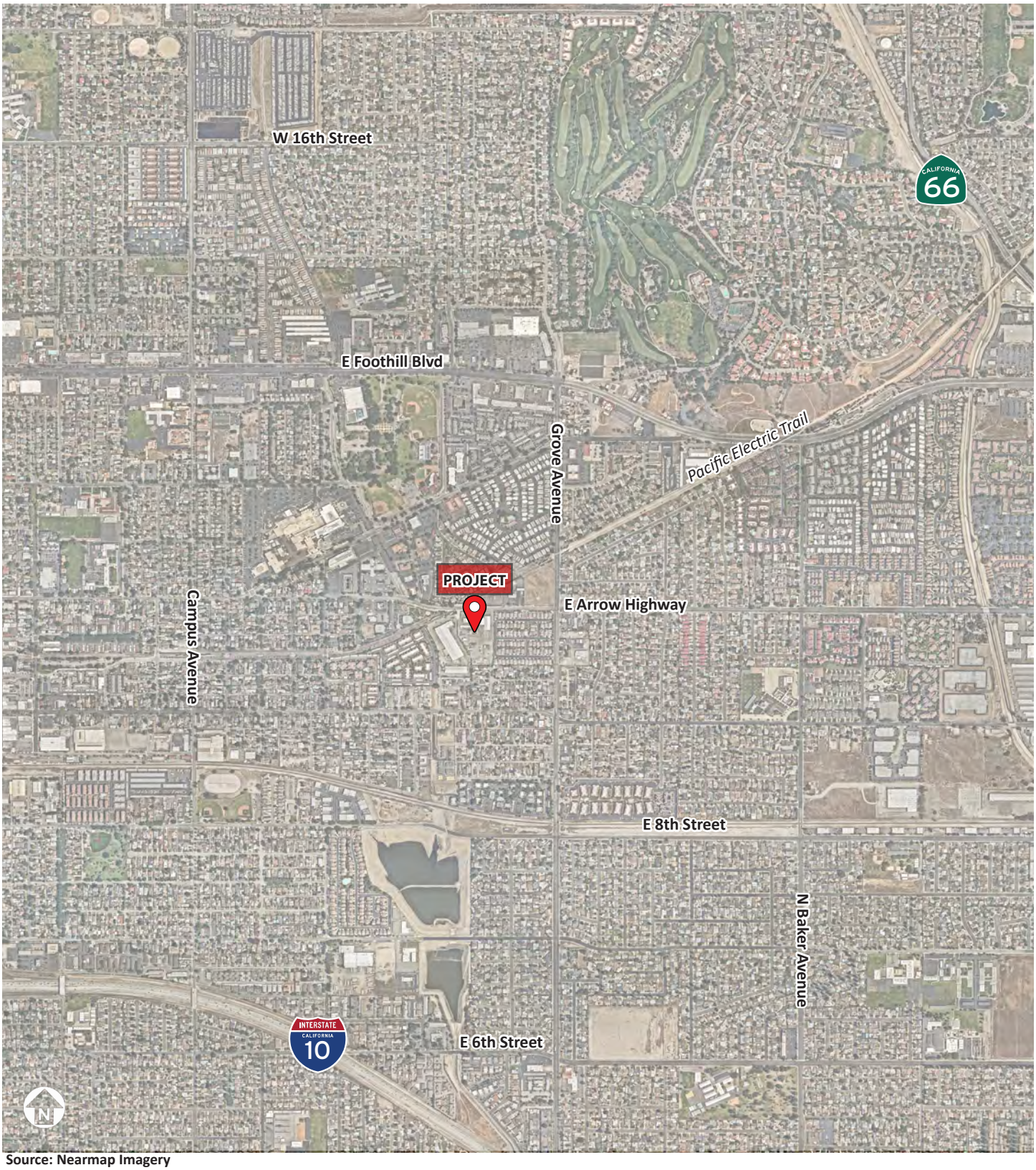
VEHICLE MILES TRAVELED (VMT) ANALYSIS

On July 1, 2020, the state of California adopted a change in the California Environmental Quality Act (CEQA) significant impact methodology for transportation impacts to use VMT as opposed to LOS for the purposes of determine significant California Environmental Quality Act (CEQA) impacts, via Senate Bill 743 (SB-743). The City of Upland has adopted the methodology and significance thresholds outlined in the *San Bernardino County Congestion Management Program (2016).* The County of San Bernardino has adopted VMT thresholds of significance and guidance for determining the significance of transportation impacts based on the Office of Planning and Research (OPR's) Guidelines.

LEVEL OF SERVICE ANALYSIS

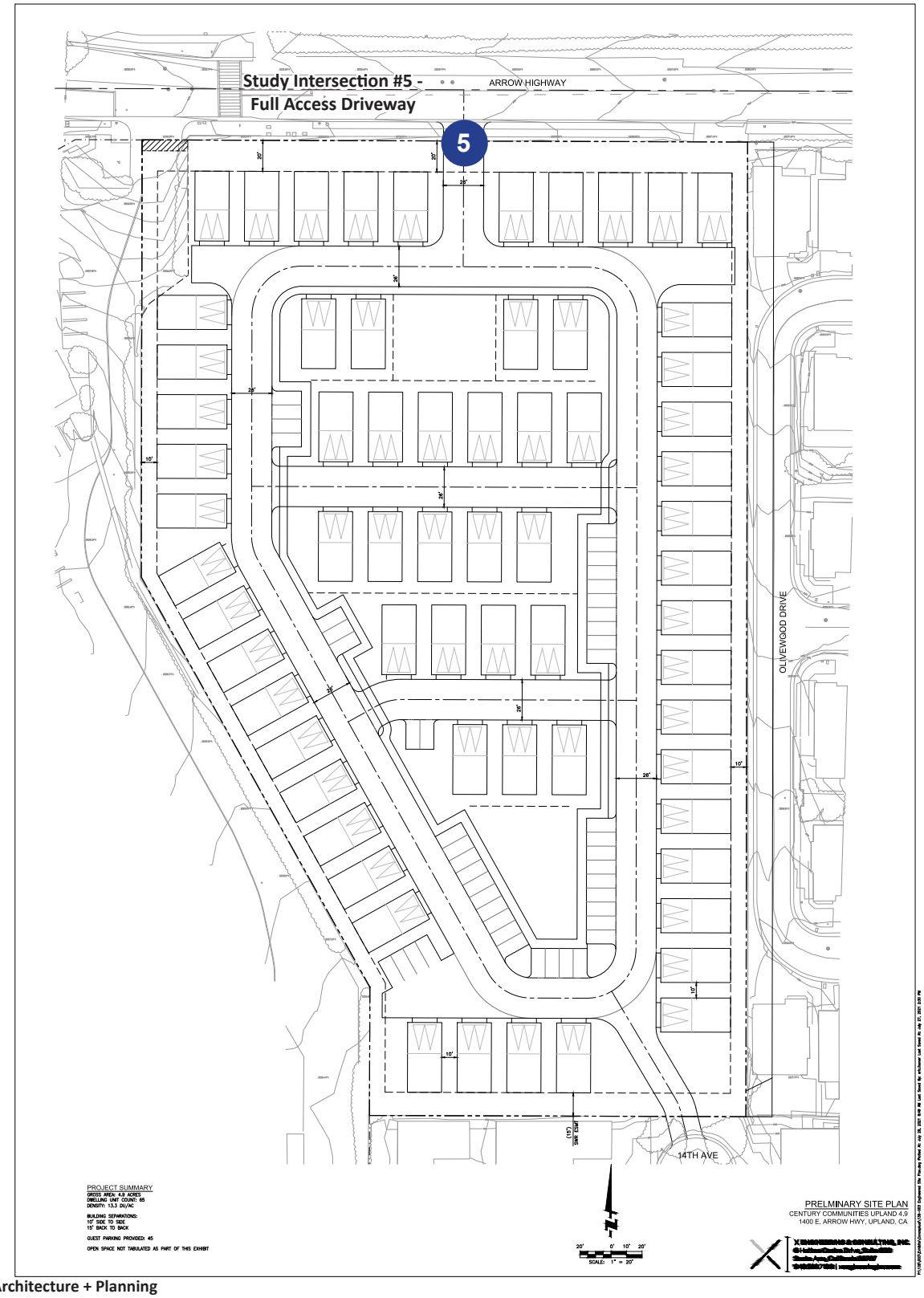
A Level of Service (LOS) analysis was conducted to address the Project's access and circulation needs for vehicles, bicycles and pedestrians per guidelines outlined in the *City of Upland Traffic Impact Analysis Guidelines, City of Upland (July 2020).*

Figure 1



Source: Nearmap Imagery

Regional Vicinity Map



Source: KTGY Architecture + Planning

Project Site Plan

Study Area

The Project will generate new vehicular trips that will increase traffic volumes on the nearby street network. To assess changes in traffic conditions associated with the Project, the intersections in **Table 1** were evaluated. The study intersections and analysis scenarios were selected based on the requirements outlined in the TIA guidelines, coordination with city of Upland staff and the approved Scope of Work. **Appendix A** contains the approved Scope of Work memo. **Figure 3** illustrates the location of each intersection relative to the Project site.

Table 1: Study Intersections

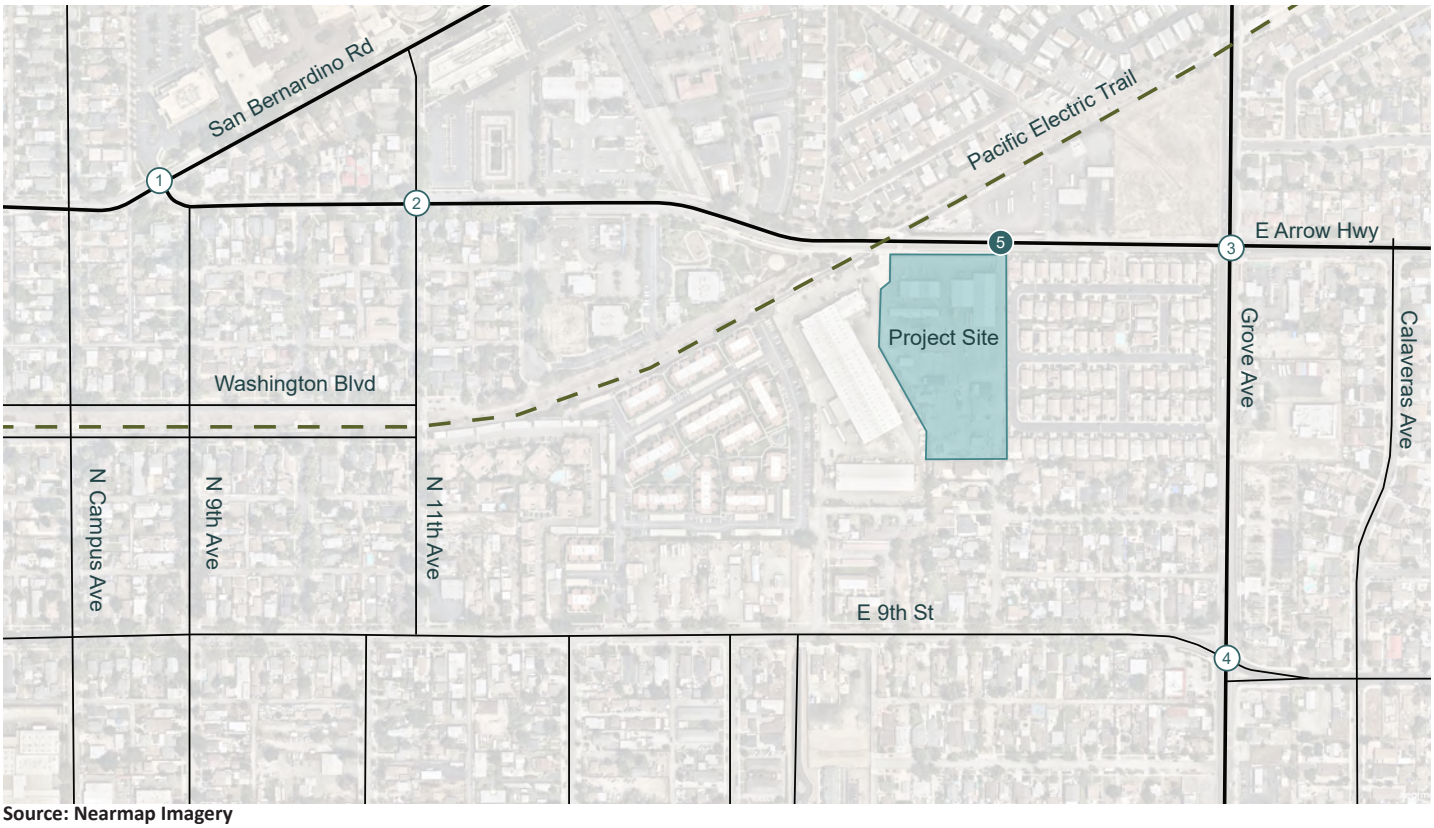
#	Intersection	Traffic Control (a)	Jurisdiction (b)
1	East Arrow Highway and San Bernardino Road	Signal	U
2	East Arrow Highway and North 11th Avenue	OWSC	U
3	East Arrow Highway and Grove Avenue	Signal	U
4	East 9th Street and Grove Avenue	Signal	U
5	East Arrow Highway and Project Driveway *(Existing Lumbar Yard Access)*	OWSC	U

(a) Signal = Traffic Signal;
OWSC = One-Way Stop Control
(b) U = city of Upland

Analysis Scenarios

Three (3) scenarios were analyzed as part of the supplemental traffic operations analysis, listed below:

- Existing (2021) Conditions – Represents the traffic conditions of the existing street network when traffic data was collected in September 2021. This scenario does not include Project traffic.
- Opening Year (2024) Without Project Conditions – Represents the traffic conditions with Project completion conditions, without Project generated traffic. Existing traffic volumes were increased by 2.5 percent annually (7.5 percent total) to account for ambient growth to projected 2024 conditions.
- Opening Year (2024) With Project Conditions – Represents the traffic conditions under the Opening Year (2024) Without Project Conditions scenario, with the addition of Project generated traffic.



Source: Nearmap Imagery

LEGEND

Project Driveway

Study Intersection

North

Study Area

Intersection Level of Service

The LOS of an intersection is a qualitative measure used to describe operational conditions. LOS ranges from A (best), which represents minimal delay, to F (worst), which represents heavy delay and a facility that is operating at or near its functional capacity. Levels of service for this study were determined using methods defined in the *Highway Capacity Manual, 6th Edition* (HCM 6) within the *Synchro 11* traffic analysis software.

The HCM includes procedures for analyzing side street stop controlled (SSSC), all-way stop controlled (AWSC), and signalized intersections. The SSSC procedure defines LOS as the highest delay of each minor street movements or major street left turns. Conversely, the AWSC and signalized intersection procedures define LOS as a function of average control delay for the entire intersection. **Table 2** relates the operational characteristics associated with each LOS category for signalized and unsignalized intersections.

Table 2: Intersection Level of Service Definitions

Level of Service	Description	Signalized (Avg. control delay per vehicle sec/veh.)	Unsignalized (Avg. control delay per vehicle sec/veh.)
A	Free flow with no delays. Users are virtually unaffected by others in the traffic stream	≤ 10	≤ 10
B	Stable traffic. Traffic flows smoothly with few delays.	> 10 – 20	> 10 – 15
C	Stable flow but the operation of individual users becomes affected by other vehicles. Modest delays.	> 20 – 35	> 15 – 25
D	Approaching unstable flow. Operation of individual users becomes significantly affected by other vehicles. Delays may be more than one cycle during peak hours.	> 35 – 55	> 25 – 35
E	Unstable flow with operating conditions at or near the capacity level. Long delays and vehicle queuing.	> 55 – 80	> 35 – 50
F	Forced or breakdown flow that causes reduced capacity. Stop and go traffic conditions. Excessive long delays and vehicle queuing.	> 80	> 50

Sources: Transportation Research Board, Highway Capacity Manual 2016, National Research Council, 2016.

The following assumptions were included in the analysis:

- A peak-hour factor (PHF) based on existing data collection was used for Existing conditions and a PHF of 0.95 was used for Opening Year Without Project, and Opening Year With Project.
- Traffic signal timings were not obtained from the city of Upland, and the following parameters used were based on assumed signal phasing and timing split:
    - Optimized signal timing/phasing for future signal analysis
    - Maximum cycle length for a single signalized intersection or system should be 130 seconds
    - 10 second minimum phase time, including change interval.
- Percent of heavy vehicles (PHV) based on a default value of 2 percent.

Deficiency Criteria

Intersection LOS – Criteria for LOS deficiency in this study are based on the policies adopted in the *City of Upland's General Plan* and *TIA Guidelines*. The City standard for the minimum LOS for intersections is LOS D or better.

As LOS analysis in this study focuses on the peak periods of traffic, LOS D was used as the deficiency threshold. Therefore, a Project induced deficiency was assumed if the addition of Project traffic would cause a facility that is operating acceptably (LOS A, B, C, or D) to begin to operate unacceptably (LOS E or F).

For facilities operating unacceptably (LOS E or F), if a proposed Project's traffic study identifies increases in the volume-to-capacity ratio identified in the City's guidelines, then the impact would be considered significant, and mitigation would be required.

2. EXISTING (2021) CONDITIONS

This chapter describes the existing conditions of the roadway network, traffic volumes, transit service, pedestrian facilities, and bicycle facilities within the vicinity of the Project site.

ROADWAY NETWORK

The roadway network within the study area is in the city of Upland and city of Rancho Cucamonga, both within San Bernardino County. This section provides a description of the relevant roadways included in this study.

FREEWAY

Interstate 10 (I-10) is an eight-lane, eastbound and westbound divided freeway that provides regional access from western Los Angeles County through eastern Riverside County, and eastward through the southern United States. I-10 origins in Santa Monica and runs eastern through Coachella Valley, providing interregional connectivity to the City of Upland and surrounding communities. There are no interchanges within the Project study area. However, Project generated traffic can travel west on East Arrow Highway and south on Euclid Avenue to access the closest interchange.

Interstate 15 (I-15) is an eight-lane, northbound and southbound divided freeway that provides access to many counties in southern California. I-15 originates in San Diego and runs northeastern through San Bernardino and Riverside counties. There are no interchanges within the Project study area. However, Project generated traffic can travel east on West Foothill Boulevard to access the closest interchange.

ARTERIAL STREETS

Arrow Highway is an east-west roadway providing access to Los Angeles County in the west and the City of Rancho Cucamonga in the east. For it's entirety, Arrow Highway is classified as a "Secondary Arterial" road within the city of Upland's General Plan. Arrow Highway has a posted speed limit of 25 miles per hour and is a designated truck route for trucks carrying less than or equal to 5 tons of goods. Near the Project site, Arrow Highway is a two-lane roadway with traffic signals at San Bernardino Road and Grove Avenue.

COLLECTOR STREETS

Campus Avenue is a north-west "Collector" roadway within the City of Upland, between Foothill Boulevard and Arrow Highway. South of Arrow Highway and North of Foothill Boulevard, Campus Avenue is classified as a "Secondary Arterial." South of Foothill Boulevard, Campus Avenue has a posted speed limit of 25 miles per hour and limited truck route access to trucks carrying less than or equal to 5 tons, and a posted speed limit of 40 miles per hour with unrestricted truck access north of Foothill Boulevard. Campus Avenue is accessible via San Bernardino Road and Arrow Highway.

UNCLASSIFIED

San Bernardino Road is a two-lane undivided northeast-southwest roadway within the City of Upland providing access to Grove Avenue and Foothill Boulevard, unclassified in the City of Upland's General Plan. The posted speed limit is 25 miles per hour and is not a designated truck route. San Bernardino Road is accessible via Arrow Highway and there is a traffic signal at the intersection of San Bernardino Road and Arrow Highway.

North 11th Avenue is a two-lane undivided north-south roadway within the City of Upland providing access to Arrow Highway and East 9th Street, unclassified in the City of Upland's General Plan. The posted speed limit is 25 miles per hour and is not a designated truck route. North 11th Avenue is accessible via Arrow Highway with stop-controlled access.

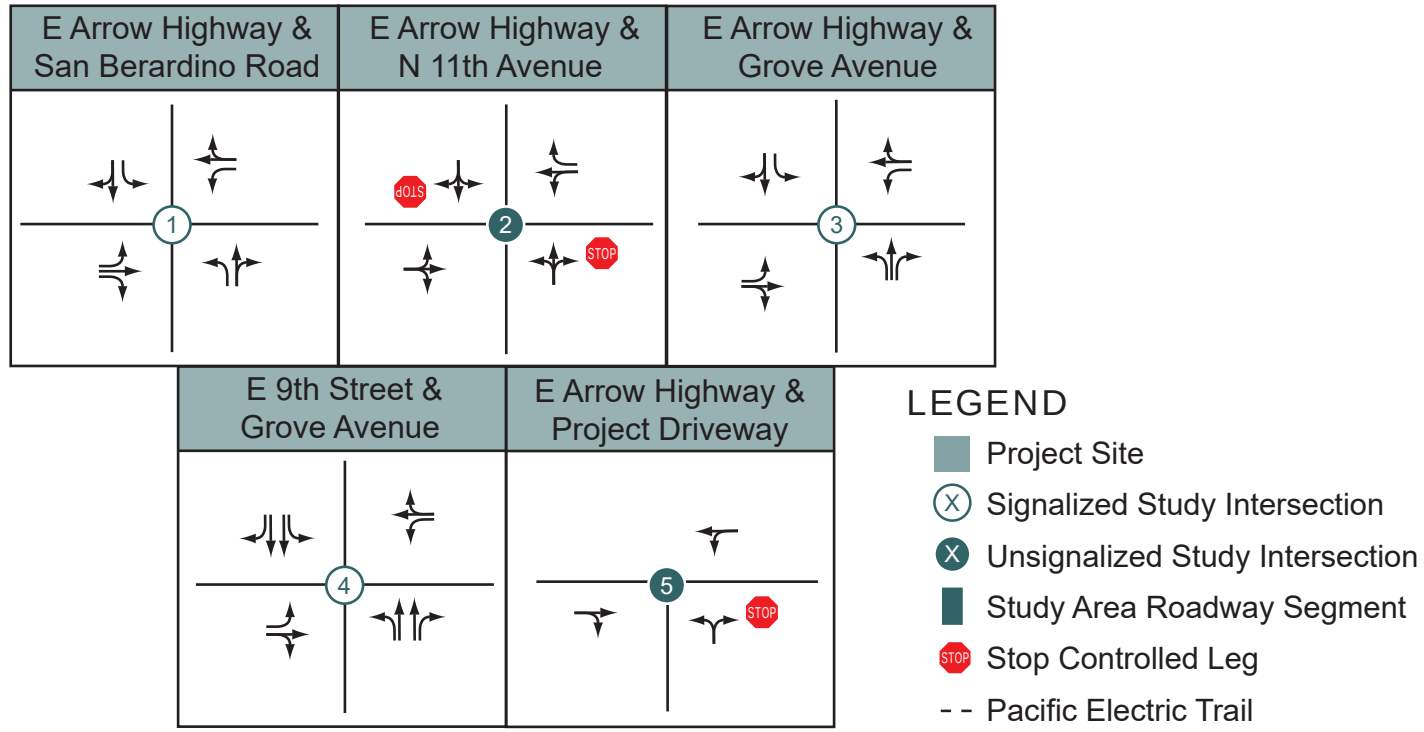
Grove Avenue is a four-lane undivided north-south roadway within the City of Upland, serving as the border between the City of Upland and the City of Rancho Cucamonga. Grove Avenue is unclassified in both the City of Upland's and City of Rancho Cucamonga's General Plan. The posted speed limit is 30 miles per hour and is not a designated truck route. Grove Avenue is accessible via Arrow Highway and there is a traffic signal at the intersection of Grove Avenue and Arrow Highway.

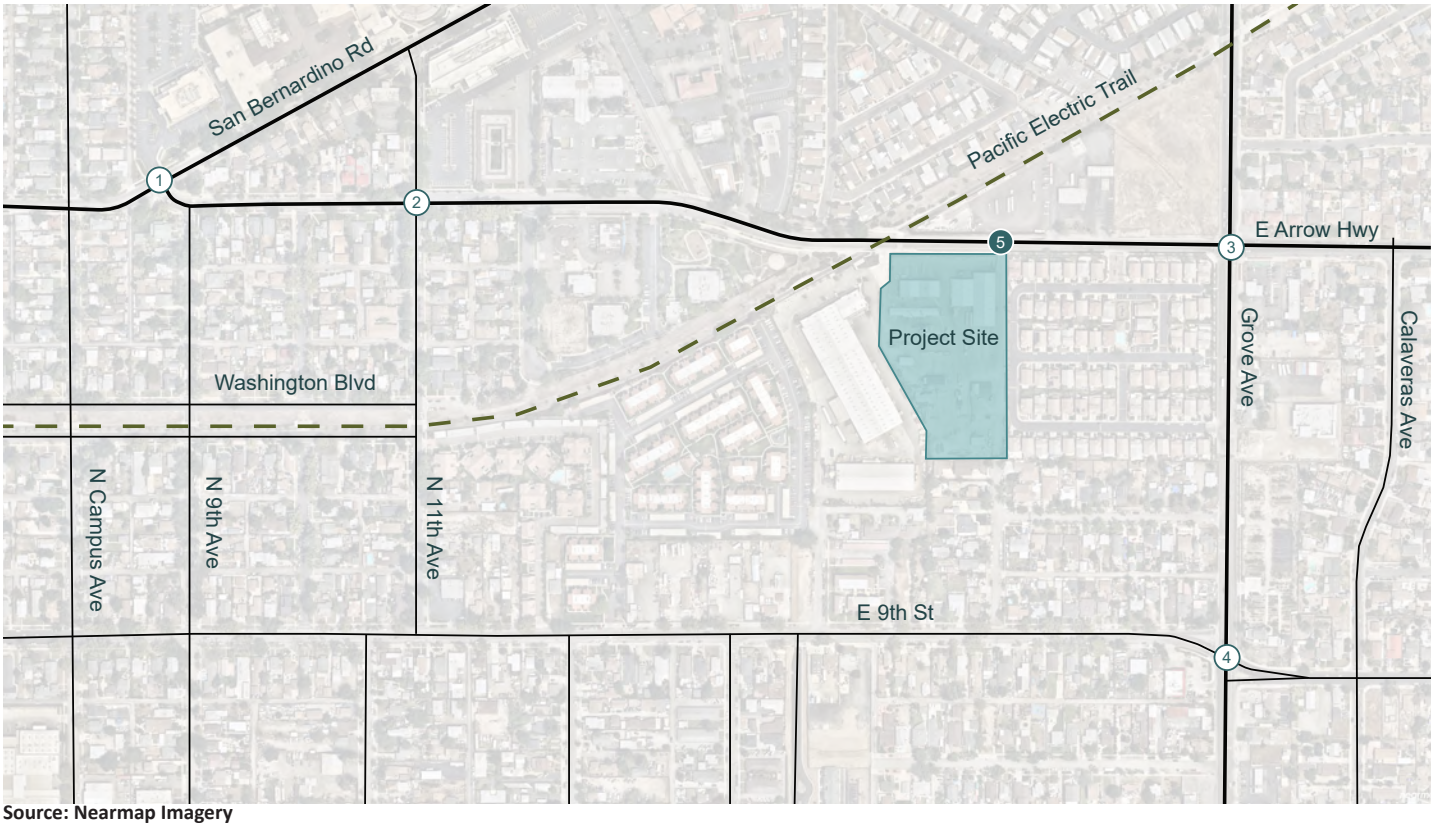
STUDY INTERSECTION LANE CONFIGURATION AND TRAFFIC CONTROL

The existing intersection lane configuration and traffic controls, as of September 2021, are illustrated in **Figure 4.**

PEAK-HOUR TURNING MOVEMENT VOLUMES

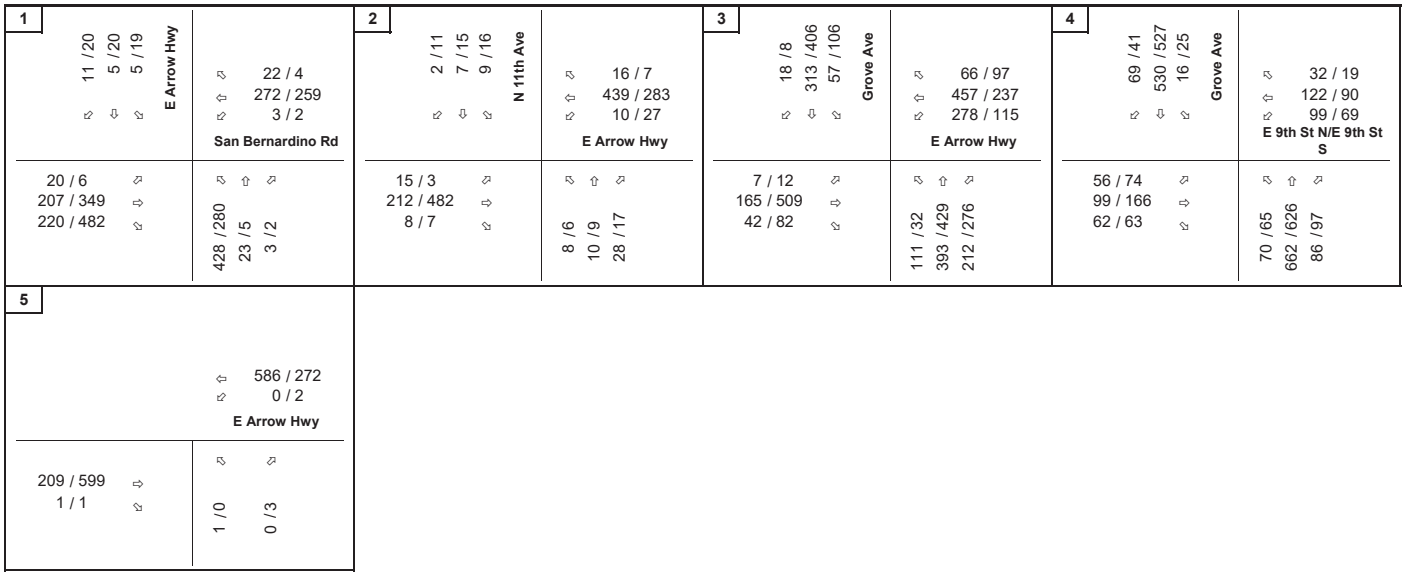
Intersection turning movement volumes for the study area intersections were collected at five (5) intersections on Thursday, September 9th, 2021. Volumes were collected during the typical 7-9 AM and 4-6 PM commuter peak periods.

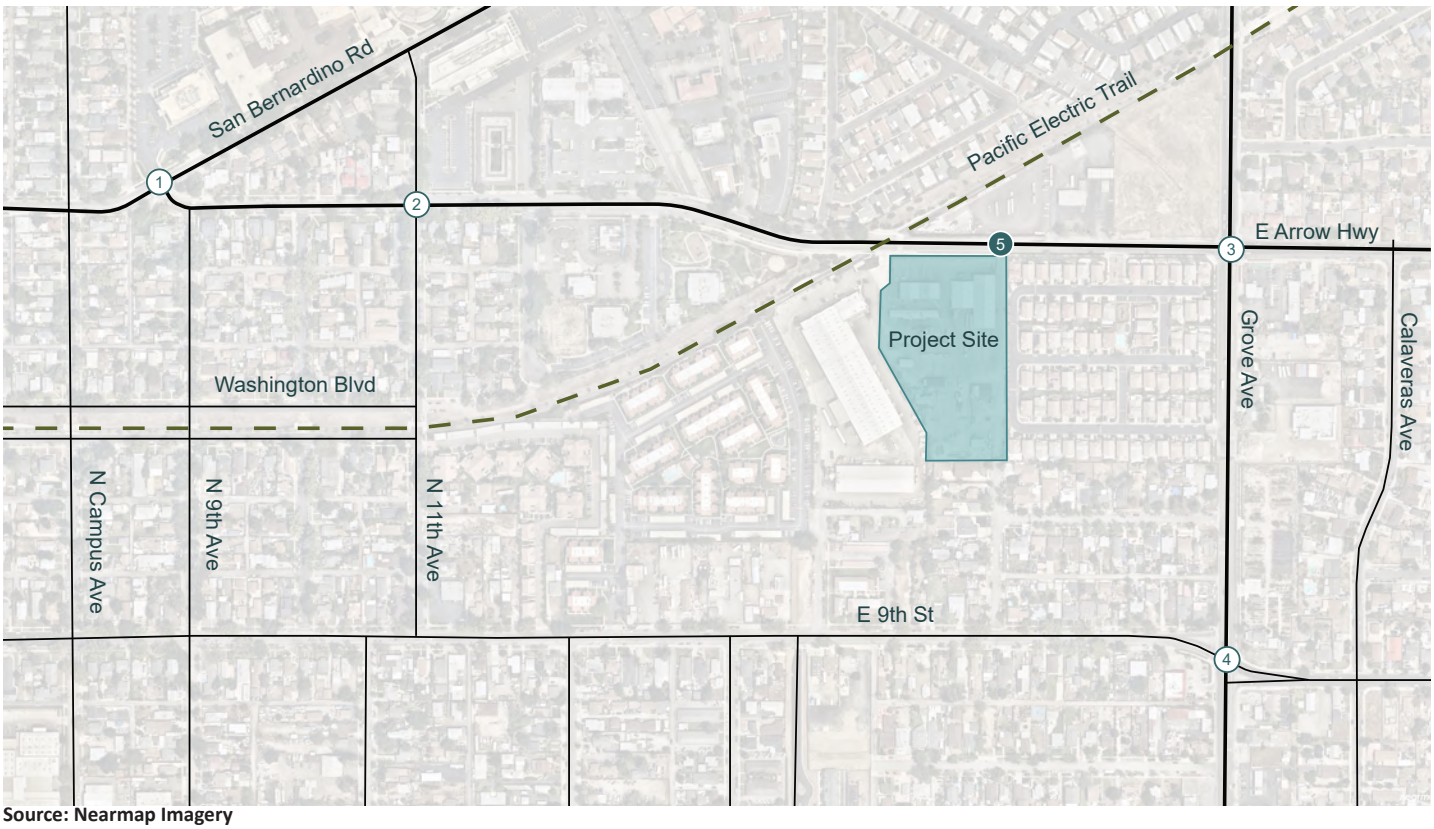




Source: Nearmap Imagery

Existing (2021) Intersection and Roadway Segment Geometries





Source: Nearmap Imagery

Existing (2021) Peak Hour Turning Movements

PEDESTRIAN FACILITIES

There are existing sidewalks along the Project frontage and the entirety of Arrow Highway, from Grove Avenue in the east to San Bernardino Road in the west. Grove Avenue and San Bernardino Road also have existing sidewalks. Within the city of Upland's General Plan, Foothill Boulevard and Euclid Avenue between Foothill Boulevard and the Southern Pacific Trail are classified as "Pedestrian Multimodal Priority Areas."

BICYCLE FACILITIES

On Arrow Highway and Campus Avenue, there are existing Class III Bike Facilities with plans to upgrade to Class II according to the City of Upland General Plan. On Foothill Boulevard, there are existing Class II bike facilities. On the Southern Pacific Trail, there are existing Class I bike facilities.

TRANSIT FACILITIES

Within the study area, there are multiple bus stops near the Project site, along Arrow Highway and San Bernardino Road. Table 3 provides a summary of the existing transit service in the study area.

Table 3: Existing Transit Service

Route	Description	Weekdays		Weekends	
		Operating Hours	Headway (minutes)	Operating Hours	Headway (minutes)
85	Chino-Montclair-Chaffey College	4:20AM – 10:17PM	60	6:00AM – 10:00PM	60

Notes:
Table reflects transit schedule as of September 2021.

Route 85 operates between the Chino Civic Center and Chaffey Transit Center within the Cities of Upland, Rancho Cucamonga, Montclair, Ontario, and Chino, traveling mainly East-West. The nearest bus stop from this route to the Project is located along the intersection of San Bernardino Road and Arrow Highway, approximately 0.5 miles west.

3. PROJECT DESCRIPTION

This chapter presents a description of the proposed site operations, trip generation, trip distribution, and trip assignment.

PROPOSED SITE OPERATIONS

The Project site is a ±4.9-acre planned light industrial/ business park zone parcel located along East Arrow Highway, bounded by Olivewood Drive to the east, and North 14th Avenue to the south in the city of Upland, within San Bernardino County. The site is currently occupied by an existing Lumber Yard. The Client proposes to construct 65 detached condos. The Project would include a total of 162 parking spaces and 30,000 square-feet of open space and one driveway access to the site off of East Arrow Highway.

PROJECT FRONTAGE IMPROVEMENTS

To facilitate site access, the Project would refurbish the existing driveway along the Project's frontage on Arrow Highway to a full-access driveway, providing access to residents and visitors. **Appendix B** contains the Project's site plan.

The Project proposes one (1) access driveway, summarized as the following:

- E Arrow Highway & Project Driveway 1 – Passenger Vehicle Access
  - Full Access Driveway
  - Stop Controlled

TRIP GENERATION

Using the *Institute of Transportation Engineers (ITE) Trip Generation Manual 10th Edition,* the Project's trip generation was prepared. The Project is expected to generate 476 daily trips, with 30 trips (7 inbound/ 23 outbound) during the a.m. peak hour and 36 trips (23 inbound / 13 outbound) during the p.m. peak hour. It should be noted that the proposed trip generation does not take any trip credits for the existing Lumber Yard. Since there is no land use in the *ITE Trip Generation Manual 10th Edition* that accurately depicts the existing travel patterns for this site, existing peak-hour inbound and outbound trips at the Project site driveway will be removed in the Opening Year (2024) With Project scenario to obtain a net total trip generation. **Table 4** contains a summary of the Project's proposed trip generation.

Table 4: Project Trip Generation

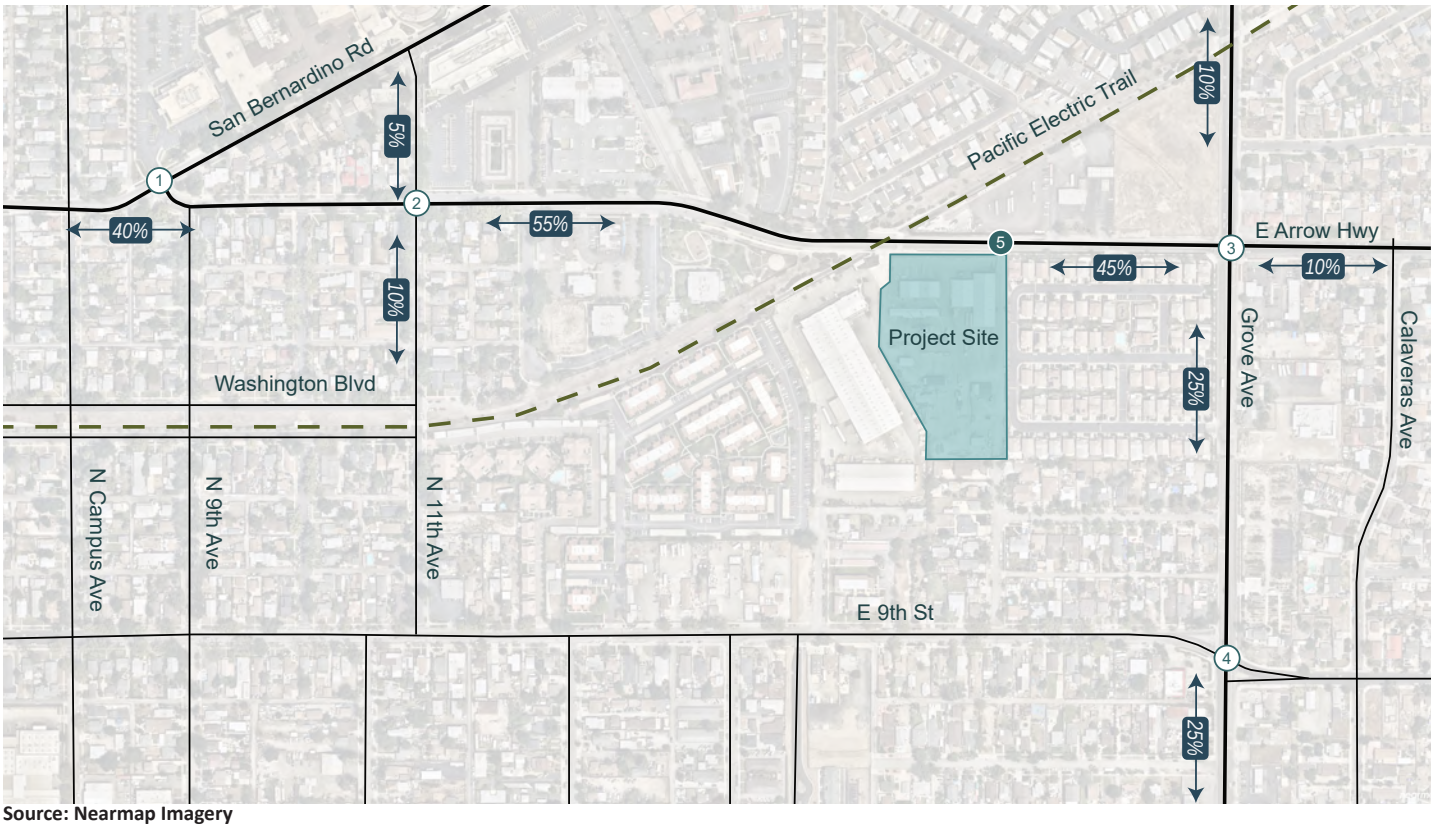
Vehicle Type	Daily Trips	AM Peak			PM Peak		
		In	Out	Total	In	Out	Total
Residential	476	7	23	30	23	13	36
Total Trip Generation	**476**	**7**	**23**	**30**	**23**	**13**	**36**

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

The Project's passenger vehicle trip distribution was based on the current roadway/freeway configurations, knowledge of the area, recent/historic traffic volume data and input from City of Upland staff. The following is the resulting general traffic distribution assumed for the LOS analysis for the Opening Year (2024) With Project Conditions:

- 40% to/from the east along E Arrow Highway, using San Bernardino Road
- 5% to/from the north along N 11th Avenue
- 10% to/from the south along N 11th Avenue
- 55% to/from the east along E Arrow Highway, using N 11th Avenue
- 55% to/from the west along E Arrow Highway, using Grove Avenue
- 10% to/from the north along Grove Avenue
- 25% to/from the south along Grove Avenue
- 25% to/from the south along Grove Avenue, using E 9th Street

Figure 6 shows the passenger vehicle trip distribution and **Figure 7** presents the trip assignment.



Source: Nearmap Imagery

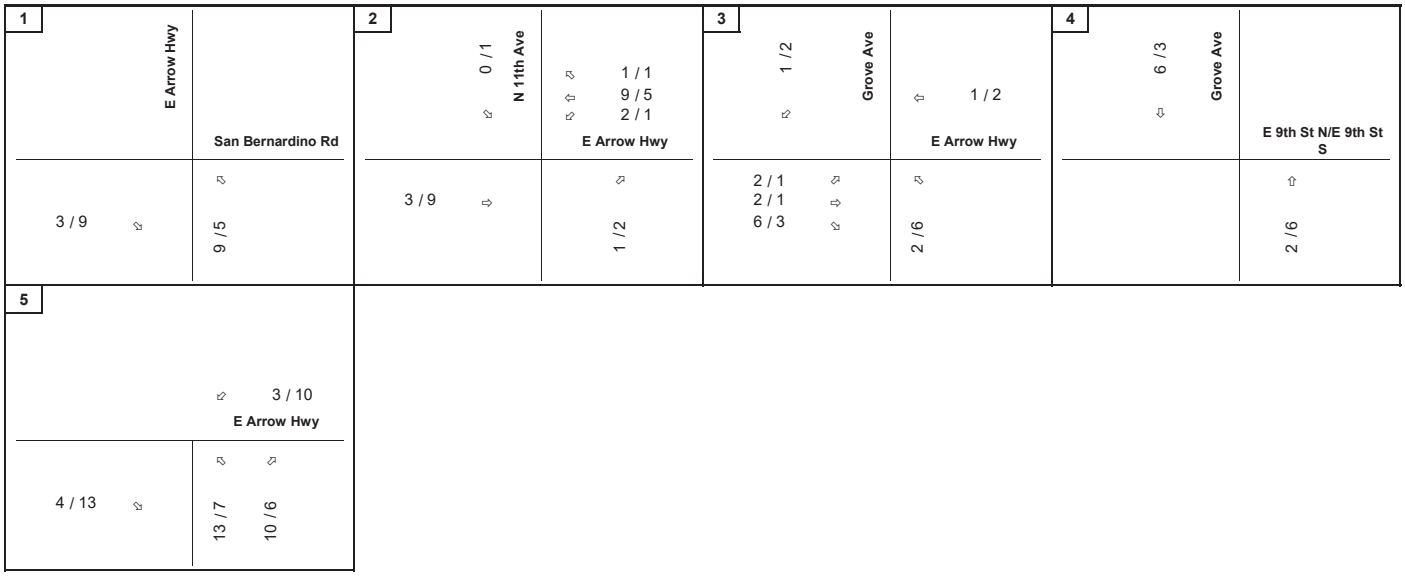
LEGEND

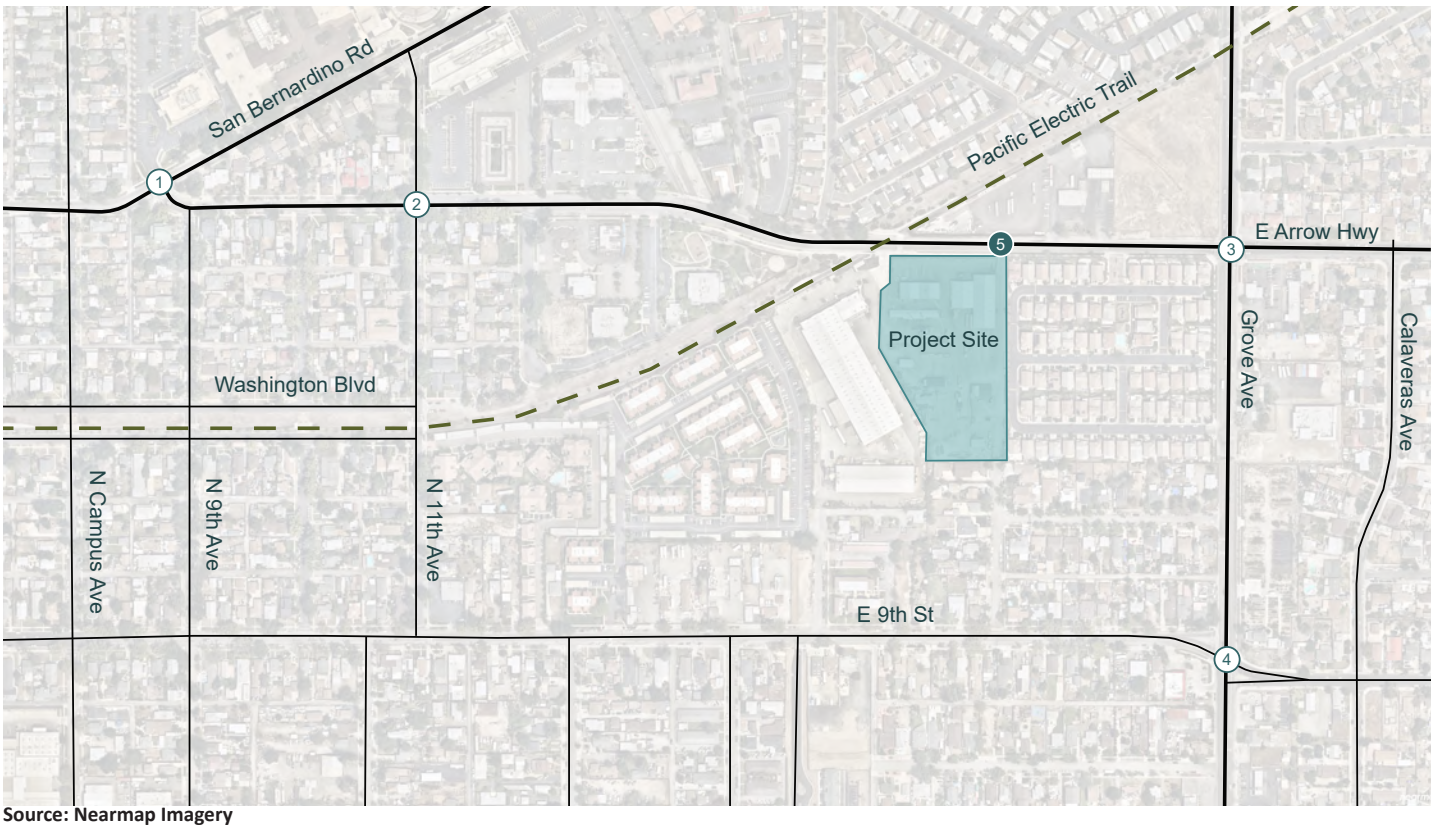
Project Driveway

Study Intersection

North

Project Trip Distribution





Source: Nearmap Imagery

Project Trip Assignment

4. VEHICLE MILES TRAVELED (VMT) ANALYSIS

A CEQA VMT analysis has been prepared to determine and evaluate the potential VMT impacts associated with the Project and is summarized in a memorandum contained in **Appendix D**. The VMT analysis memorandum concludes that the Project is located within a Low VMT-Generation area and is less than the region-wide average. Therefore, the Project is screened out based on the low VMT-Generating area screening. **As such, the Project does not have a significant VMT impact based on the initial VMT screening.**

5. LEVEL OF SERVICE ANALYSIS

This chapter will discuss the LOS analysis used to determine the operational effects of the Project on the transportation system.

EXISTING (2021) CONDITIONS ANALYSIS

Existing roadway geometry, and traffic controls as of September 2021 are shown in **Figure 4,** as well as Existing (2021) Conditions are based on traffic counts shown in **Figure 5**. **Table 5** displays the intersection LOS analysis results under Existing (2021) Conditions, showing all intersections currently operate at LOS C or better during the commuter peak periods.

Appendix C contains the intersection LOS calculation worksheets.

Table 5: Existing (2021) Level of Service Analysis Summary

Arrow 32N Residential

EXISTING CONDITIONS

PEAK-HOUR INTERSECTION LEVEL OF SERVICE SUMMARY

	INTERSECTION	TRAFFIC CONTROL	PEAK HOUR	EXISTING	
				DELAY (a)	LOS (b)
1	E Arrow Hwy/Dwy & San Bernardino Rd	Signal	AM	11.7	B
			PM	10.4	B
2	N 11th Ave & E Arrow Hwy	Two-Way Stop	AM	17.0	C
			PM	18.4	C
3	Grove Ave & E Arrow Hwy	Signal	AM	17.4	B
			PM	19.7	B
4	Grove Ave & E 9th St	Signal	AM	9.0	A
			PM	8.9	A
5	Project Dwy & E Arrow Hwy	Two-Way Stop	AM	16.6	C
			PM	12.7	B

Notes:

Bold values indicate intersections operating at LOS E or F.

ECL = Exceeds Calculable Limit. Reported when delay exceeds 180 seconds.

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a two-way stop-controlled intersection, delay refers to the worst movement.

(b) LOS calculations are based on the methodology outlined in the *Highway Capacity Manual 6th Edition* and performed using Synchro 11

K:\SND_TPTO\095219024 - Arrow 32N Residential\ANALYSIS\EXCEL\[095219024IN01.xlsm]Existing

OPENING YEAR (2024) WITHOUT PROJECT CONDITIONS ANALYSIS

Project completion conditions represents the expected conditions in 2024, when the Project is expected to be completed, without the consideration of Project generated traffic.

LANE GEOMETRY AND CONTROL

Opening Year (2024) Without Project Conditions are the same as the Existing (2021) Conditions. Lane geometry and traffic controls in the Opening Year (2024) Without Project conditions are shown in **Figure 4.**

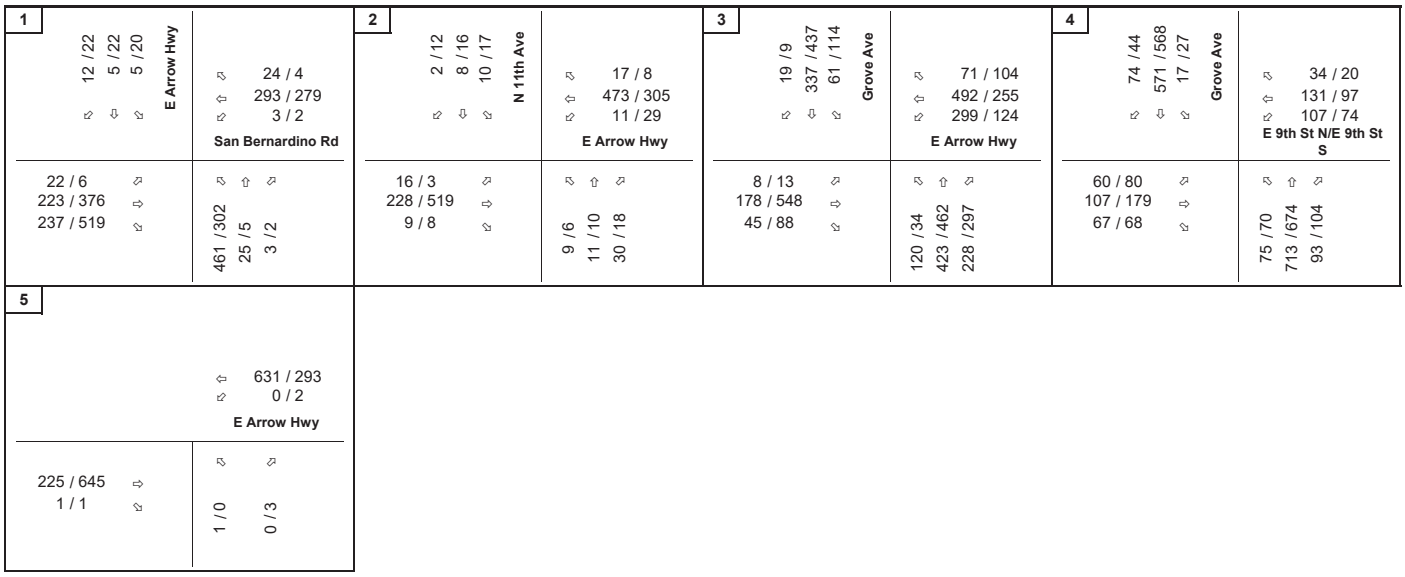
TRAFFIC VOLUME

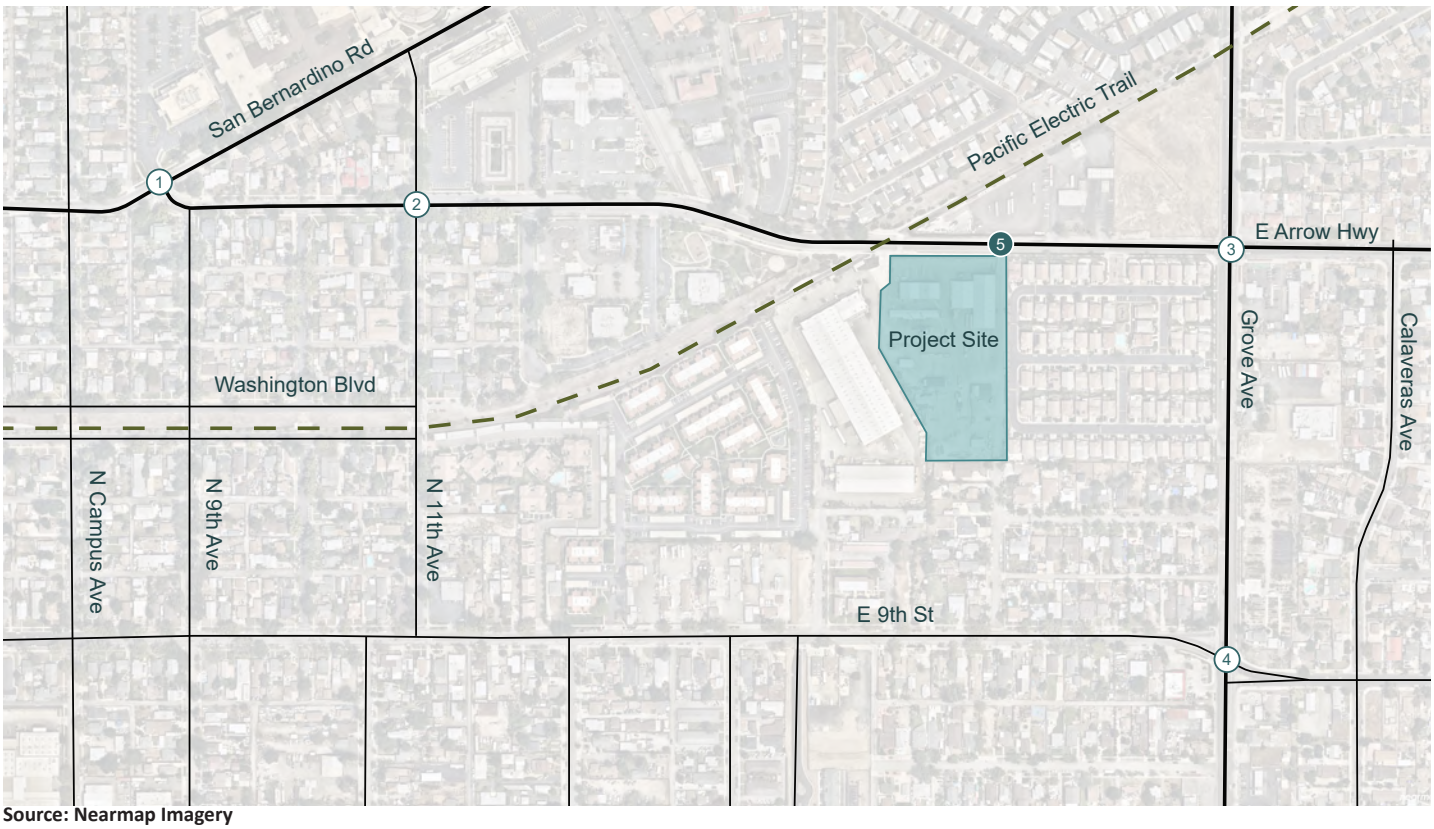
To account for "ambient" growth within the study area, the Opening Year (2024) Without Project traffic volumes were developed by applying an annual 2.5 percent growth rate (7.5 percent total) to the Existing (2021) traffic volumes. Opening Year (2024) Without Project traffic volumes are presented in **Figure 8.**

INTERSECTION LEVEL OF SERVICE

Table 6 displays the intersection LOS analysis results under Opening Year (2024) Conditions, showing all intersections are expected to operate at LOS C or better during the commuter peak periods.

Appendix C contains the intersection LOS calculation worksheets.





Source: Nearmap Imagery

Opening Year (2024) Without Project Peak Hour Turning Movements

Table 6: Opening Year (2024) Level of Service Summary Comparison

Arrow 32N Residential

NEAR TERM CONDITIONS

PEAK-HOUR INTERSECTION LEVEL OF SERVICE SUMMARY

	INTERSECTION	PEAK HOUR	OPENING YEAR WITHOUT PROJECT		OPENING YEAR WITH PROJECT			
			DELAY (a)	LOS (b)	DELAY (a)	LOS (b)	D (c)	SIGNIFICANT?
1	E Arrow Hwy/Dwy & San Bernardino Rd	AM	12.6	B	12.9	B	0.3	NO
		PM	11.5	B	11.8	B	0.3	NO
2	N 11th Ave & E Arrow Hwy	AM	18.0	C	18.4	C	0.4	NO
		PM	20.3	C	21.0	C	0.7	NO
3	Grove Ave & E Arrow Hwy	AM	19.0	B	19.1	B	0.1	NO
		PM	23.2	C	23.5	C	0.3	NO
4	Grove Ave & E 9th St	AM	9.2	A	9.2	A	0.0	NO
		PM	9.3	A	9.3	A	0.0	NO
5	Project Dwy & E Arrow Hwy	AM	16.7	C	14.2	B	-2.5	NO
		PM	13.0	B	16.7	C	3.7	NO

Notes:

Bold values indicate intersections operating at LOS E or F. **Bold and shaded** values indicate project significant impact.

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a two-way stop-controlled intersection, delay refers to the worst movement.

(b) LOS calculations are based on the methodology outlined in the *Highway Capacity Manual 6th Edition* and performed using Synchro 11

(c) Change in delay due to addition of project traffic

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OPENING YEAR (2024) WITH PROJECT CONDITIONS ANALYSIS

LANE GEOMETRY AND CONTROL

Opening Year (2024) With Project conditions are assumed to be the same as Existing (2021) conditions. Lane geometry and traffic controls in the Opening Year (2024) With Project conditions are shown in **Figure 4.**

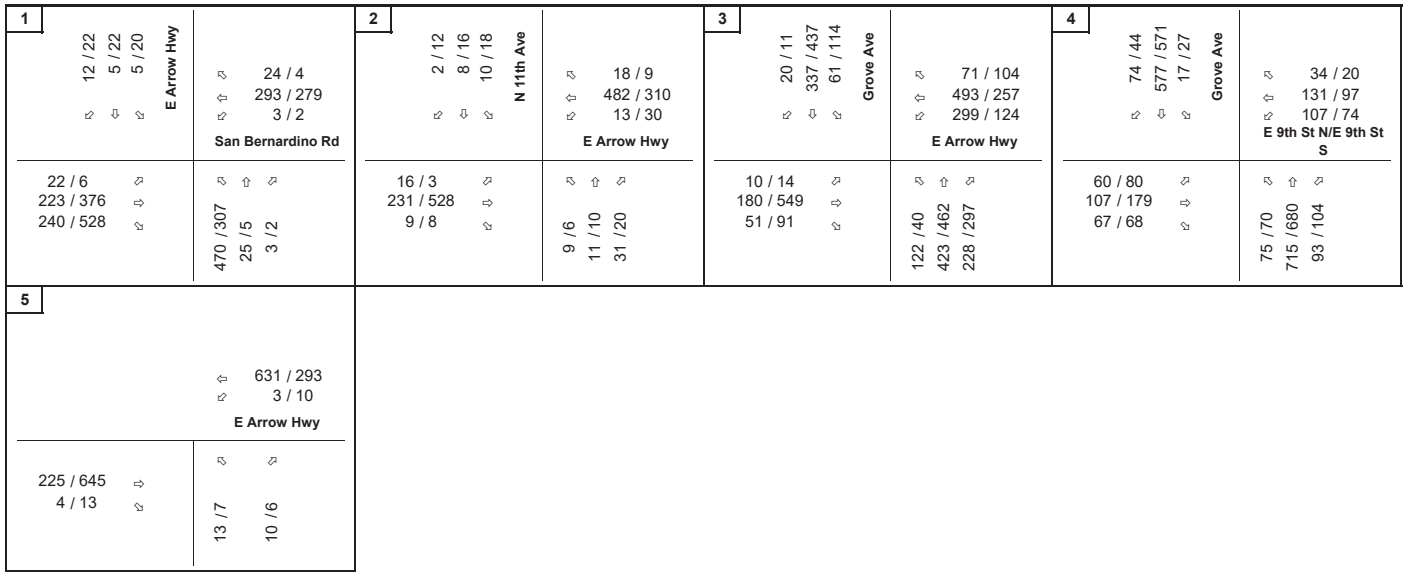
TRAFFIC VOLUMES

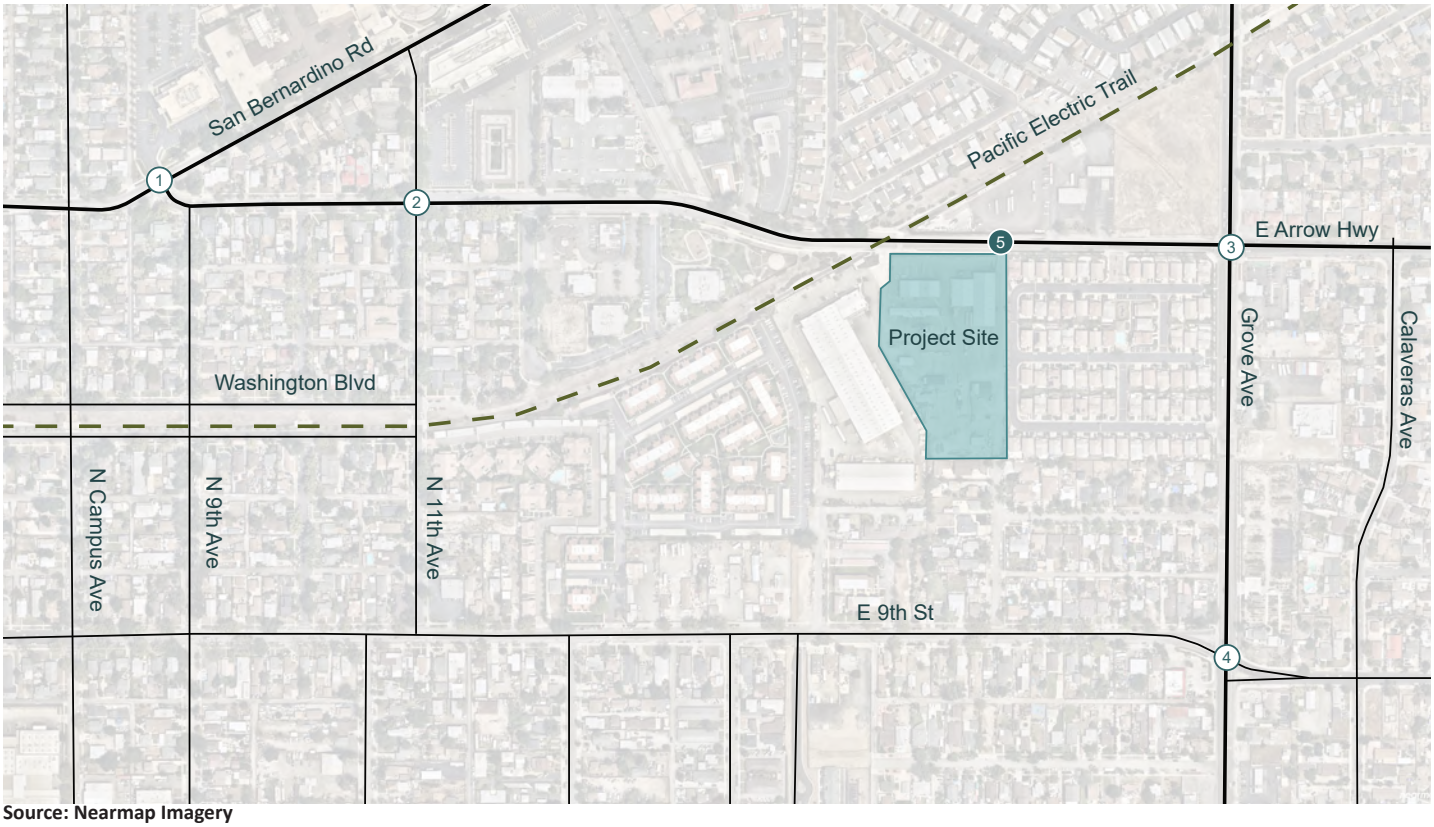
Opening Year (2024) With Project volumes were determined by adding Project generated traffic to the Opening Year (2024) Without Project Conditions and removing the existing inbound and outbound trips of the existing Project driveway, study intersection #5. The existing trips were removed to better represent "with project" conditions since the trips are sourced from an existing land use that will be removed and replaced with the Project. **Figure 9** details the Opening Year (2024) With Project volumes.

INTERSECTION LEVEL OF SERVICE

Table 6 displays the intersection LOS analysis results under Cumulative Project (2024) Conditions, showing all intersections would continue to operate at LOS C or better during the commuter peak periods.

Appendix C contains the intersection LOS calculation worksheets.





Source: Nearmap Imagery

Opening Year (2024) With Project Peak Hour Turning Movements

FINDINGS

The results of the foregoing analysis indicate that the Project has no impacts that would further degrade the existing LOS operations.

6. ADDITIONAL TOPICS

This section discusses site access, pedestrian, bicycle, and transit recommendations for the Project.

SITE ACCESS

The Project proposes one (1) full access driveway, along Arrow Highway. The current driveway exists today, to provide access to the Lumber Yard on the property. The following summarizes the Project access location:

- E Arrow Highway & Project Driveway 1 – Passenger Vehicle Access
  - Full Access Driveway
  - Stop Controlled

7. CONCLUSIONS AND RECOMMENDATION SUMMARY

The following Traffic Impact Analysis (TIA) has been prepared to determine potential Vehicle Miles Traveled (VMT) impacts and/or Level of Service (LOS) deficiencies associated with the Arrow 32N Residential (Project), an approximately 4.9-acre site planned to hold 65 detached condos, 162 parking spaces and 30,000 square feet of open space. Within the city of Upland, the proposed site is located along E Arrow Highway, bordered by Grove Avenue (east), North 14th Avenue (south), and North 11th Avenue (west). Currently, a lumber yard is located on the Project site, as the site is designated as a Light Industrial land use zone per the City of Upland Zoning Code. The Project proposes to update the current Light Industrial use zone to a Residential Multi-Family Zone (Low). The multi-family low zone is intended to provide areas for a variety of low-density multi-family residential developments at densities up to 10 units per net acre exclusive of City and state density bonuses. These lots are typically characterized by shared open space with lush landscaping; medium front, side, and rear yards, and shared driveway and parking. The Project proposes a 65-unit residential development, with ample parking and open space for residents and visitors. The Project proposes the refurbishment of one existing driveway, which will provide access to residents and visitors. The Project would be developed in one phase with completion expected in 2024. The Project is expected to generate 476 daily unadjusted trips, with 30 trips (7 inbound/ 23 outbound) during the a.m. peak hour and 36 trips (23 inbound / 13 outbound) during the p.m. peak hour.

VMT ANALYSIS

A CEQA VMT analysis has been prepared to determine and evaluate the potential VMT impacts associated with the Project and is summarized in a memorandum contained in **Appendix D**. The VMT analysis memorandum concludes that the Project is located within a Low VMT-Generating area and is less than the region-wide average. Therefore, the Project is screened out based on the low VMT-Generating area screening. **As such, the Project does not have a significant VMT impact based on the initial VMT screening.**

PROJECT FRONTAGE IMPROVEMENTS

To facilitate site access, the Project would refurbish the existing driveway along the Project's frontage on Arrow Highway to a full-access driveway, providing access to residents and visitors.

OFF-SITE RECOMMENDATIONS

No off-site recommendations are planned within the study area, as there are no impacts to the existing network generated from the Project.

PEDESTRIAN FACILITIES

No pedestrian facilities are planned along the Project's frontage.

APPENDIX

A – APPROVED TRAFFIC SCOPE OF WORK MEMO

B – PROPOSED SITE PLAN

C – LEVEL OF SERVICE CALCULATION SHEETS

D – VEHICLE MILES TRAVELED MEMORANDUM

A – Approved Traffic Scope of Work Memo

Kimley»Horn

MEMORANDUM

To:
City of Upland
Public Works Transportation Division

From: Jon Collins, P.E.
Kimley-Horn and Associates, Inc.

Date: September 1, 2021

Subject: Arrow 32N Traffic Study Scope

This memorandum was prepared to outline the proposed traffic study area, assumptions, and parameters for review by the City of Upland staff for a 65-unit Residential Development located at 1400 East Arrow Highway, Upland, CA.

Project Understanding

The project site is a ±4.9-acre planned light industrial/ business park zone parcel located along East Arrow Highway, bounded by Olivewood Drive to the east, and North 14th Avenue to the south in the City of Upland, within San Bernardino County. The site is currently occupied by an existing Lumber Yard. The Client proposes to construct up to 65 detached condos. The project would include a total of 162 parking spaces and 30,000 square-feet of open space and one driveway access to the site off of East Arrow Highway.

Figure 1 shows the project location and proposed study intersections. The preliminary site plan is shown on ***Figure 2***.

Kimley-Horn will prepare a Traffic Impact Analysis in accordance with the City of Upland *Traffic Impact Analysis Guidelines (July 2020)* and the City's General Plan.

Project Trip Generation and Project Distribution

Table 1 summarizes the project trip generation, as shown in Table 1, the proposed project is expected to generate approximately 476 daily trips (30 trips in the AM peak hour and 36 trips in the PM peak hour).

It should be noted that the proposed trip generation does not take any trip credits for the existing Lumber Yard. Since there is no land use in the Institute of Transportation Engineers (ITE) *Trip Generation Manual 10th Edition* that accurately depicts the existing travel patterns for this site, existing peak-hour inbound and outbound trips at the project site driveway will be removed to obtain a net total trip generation.
Figure 3 shows the trip distribution assumptions for the project traffic based on likely origins and destinations of residents, the roadway system serving the site, and current traffic patterns in the area.

Project Study Area and Data Collection

Kimley-Horn will obtain morning and evening peak period traffic count data at the study intersections. Based the project distribution the proposed study area consists of the following 5 study intersections that are key to providing project site access:

1. E. Arrow Highway and San Bernardino Road
2. E. Arrow Highway and N 11th Avenue
3. E Arrow Highway and Grove Avenue
4. E 9th Street and Grove Avenue
5. E Arrow Highway and Project Driveway (Existing Lumber Yard Access)

Analysis Scenarios

The traffic study will evaluate the following analysis scenarios for typical weekday AM and PM peak hour conditions:

- Existing
- Opening Year (2024) Without Project
- Opening Year (2024) With Project

To account for ambient growth and cumulative projects, existing volumes will have an applied growth rate of 2.5% per year over a three-year period for Opening Year (2024) conditions.

Level of Service Analysis

Kimley-Horn will prepare a level of service analysis documenting methods and results outlined in the General Plan operational compliance. Signalized study intersections will be analyzed using methodologies outlined in the Highway Capacity Manual with parameters as set forth within the City of Upland traffic study guidelines. Intersection analysis will be performed using Synchro software.

Vehicle Miles Traveled (VMT) Screening

Kimley-Horn will prepare a Vehicle Miles Traveled Analysis in accordance with the City of Upland *Traffic Impact Analysis Guidelines (July 2020).*

City TIA guidelines outline three types of screening to effectively screen projects from project-level assessment. The project needs only to satisfy one of the potential screening steps outlined below:

1. Transit Priority Area (TPA) Screening
2. Low VMT Area Screening
3. Project Type Screening

Figure 4 and ***Figure 5*** show the San Bernardino County Transportation Authority (SBCTA) VMT Screening Tool results. As shown in the figures, the Project location is not withing a TPA, however it is with a low VMT generating TAZ with a total of 22.9 VMT per capita compared to the jurisdiction VMT of 31.2 VMT per capita. Additionally, the project is not screened out of the Project Type Screening due to the land use and project size. Since the project is located within a low VMT generating TAZ, it is presumed to result in a less than significant VMT impact. Based on the guidelines, the project needs to satisfy only one of the potential screenings therefore, no further VMT assessment is necessary.

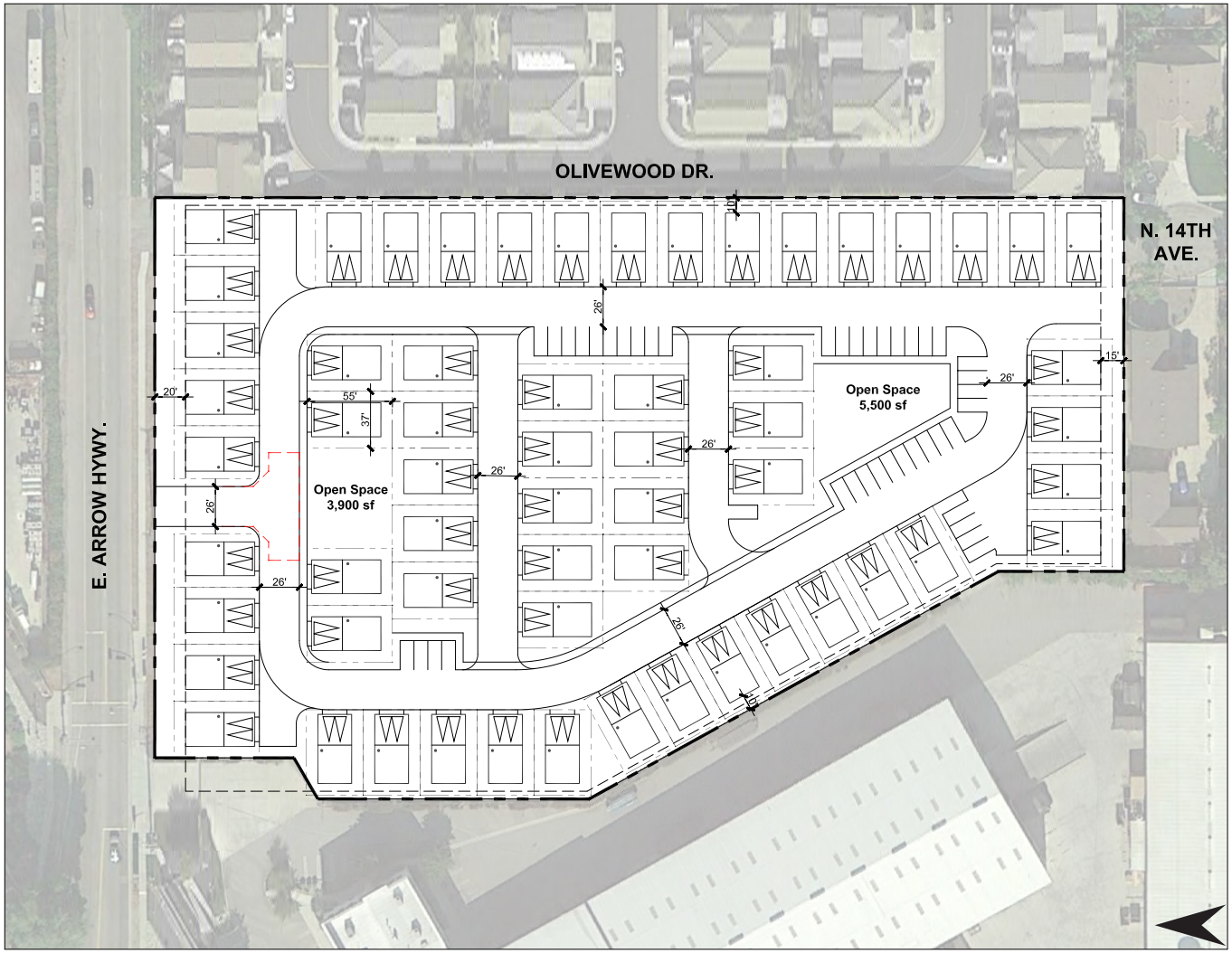
Kimley»Horn

Table 1
Trip Generation Summary

Land Use	Land Use as listed in ITE	Units[1]	Trip Rate[2]	Daily Trips	AM Peak-Hour					PM Peak-Hour				
					% of ADT[2]	In:Out Ratio[2]	In	Out	Total	% of ADT[2]	In:Out Ratio[2]	In	Out	Total
Driveway Trips														
Proposed														
Residential	Multifamily Housing (Low-Rise)	65 du	7.32 / du	476	6%	0.23 : 0.77	7	23	30	8%	0.63 : 0.37	23	13	36
TOTAL TRIP GENERATION =				**476**			**7**	**23**	**30**			**23**	**13**	**36**

Note:

1. du = Dwelling Units
2. Trip rates references from ITE Trip Generation, 10th Edition.
3. Driveway trips are the total number of trips generated by a site.



SITE INFORMATION

Address	1400 E Arrow Highway
Site Area	4.9 AC
City	Upland
Existing Zoning	LI-Light Industrial
General Plan	LI-BP Light Industrial/ Business Park
Proposed Zoning	RM-20 Residential MF-20 du/ac
Fire Code	San Bernardino County (CalFire)

RM-20 Development Standards

Front Setback	20 Feet
Side Setback	5 Feet
Rear	15 Feet
Building Height	40 Feet Max.
Building to Building	15 Feet
Density	up to 20 du/ac
Parking (3+Beds)	2.5 spaces/du + guest 0.2 space/du
Open Space	
Common:	250sf/du 25' Min. width
Private:	100sf/du 8' width and 100sf Min. (can be combine as 350sf/du)

Project Summary

Gross Area	4.9 ac
Units	60 du
Density	12.2 du/ac

Parking Required

Garage: 2.5x60	150 spaces
Guest: 60x0.2	12 spaces
Total	162 spaces

Parking Provided

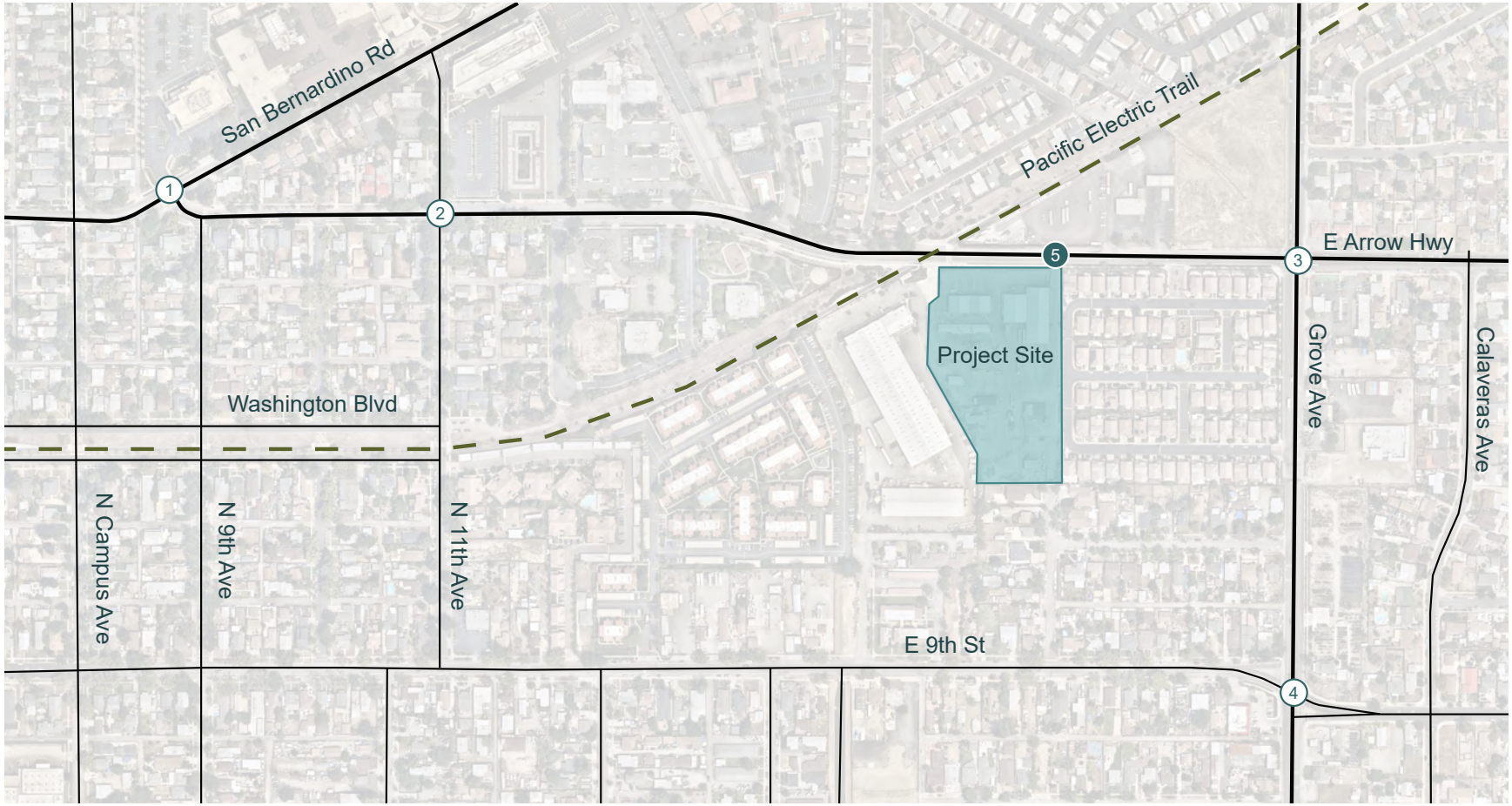
Garage:	120 spaces
Guest	42 spaces
Total	162 spaces

Open Space Required	21,000 sf
Open Space Provided	
Common	9,400 sf
Private	20,600 sf
Total	30,000 sf

Source: KTGY Architecture + Planning

Figure 1 - Site Plan

Kimley»Horn



LEGEND

- Project Driveway
- Study Intersection

North

Figure 2 - Study Area Map

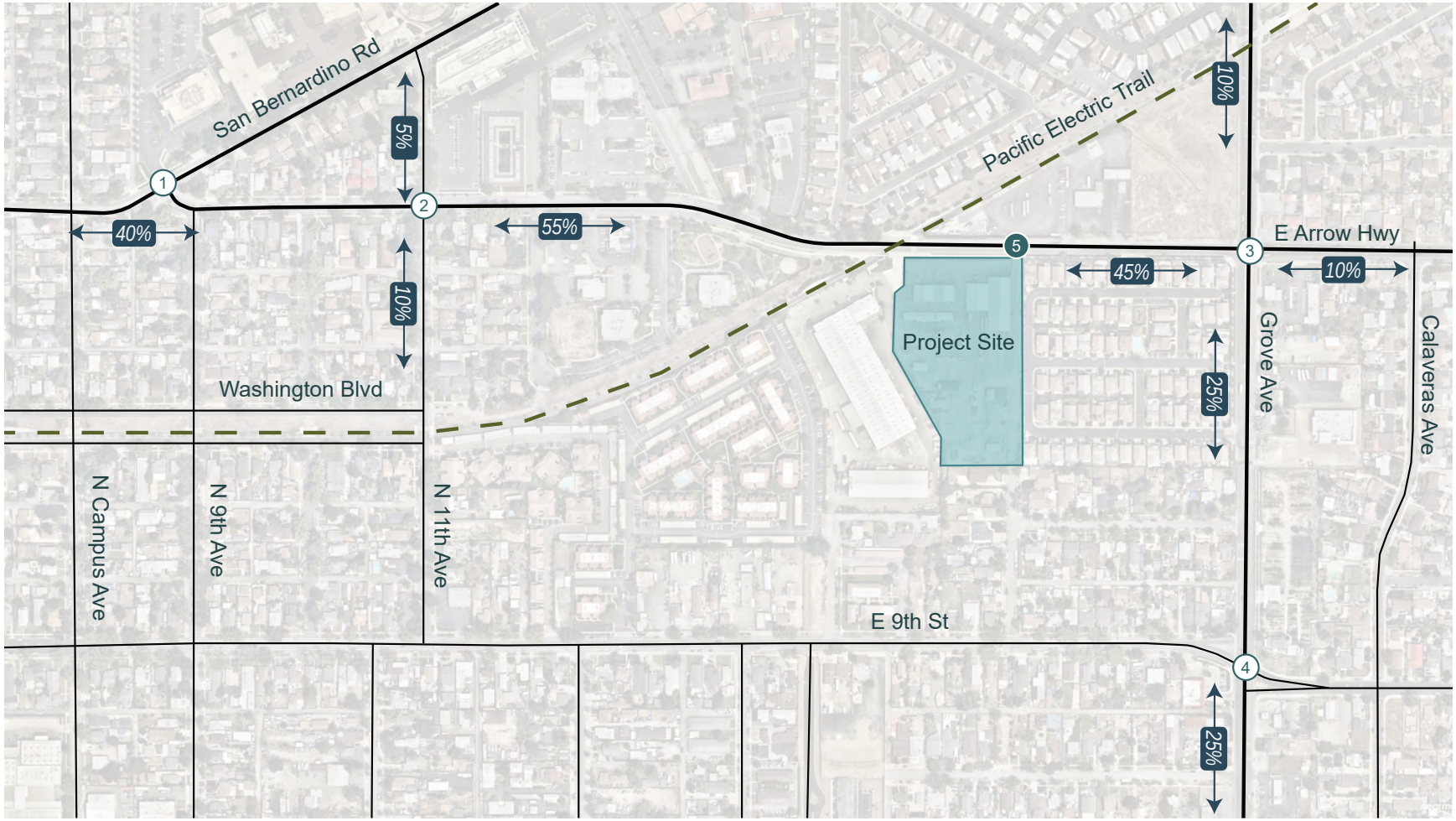
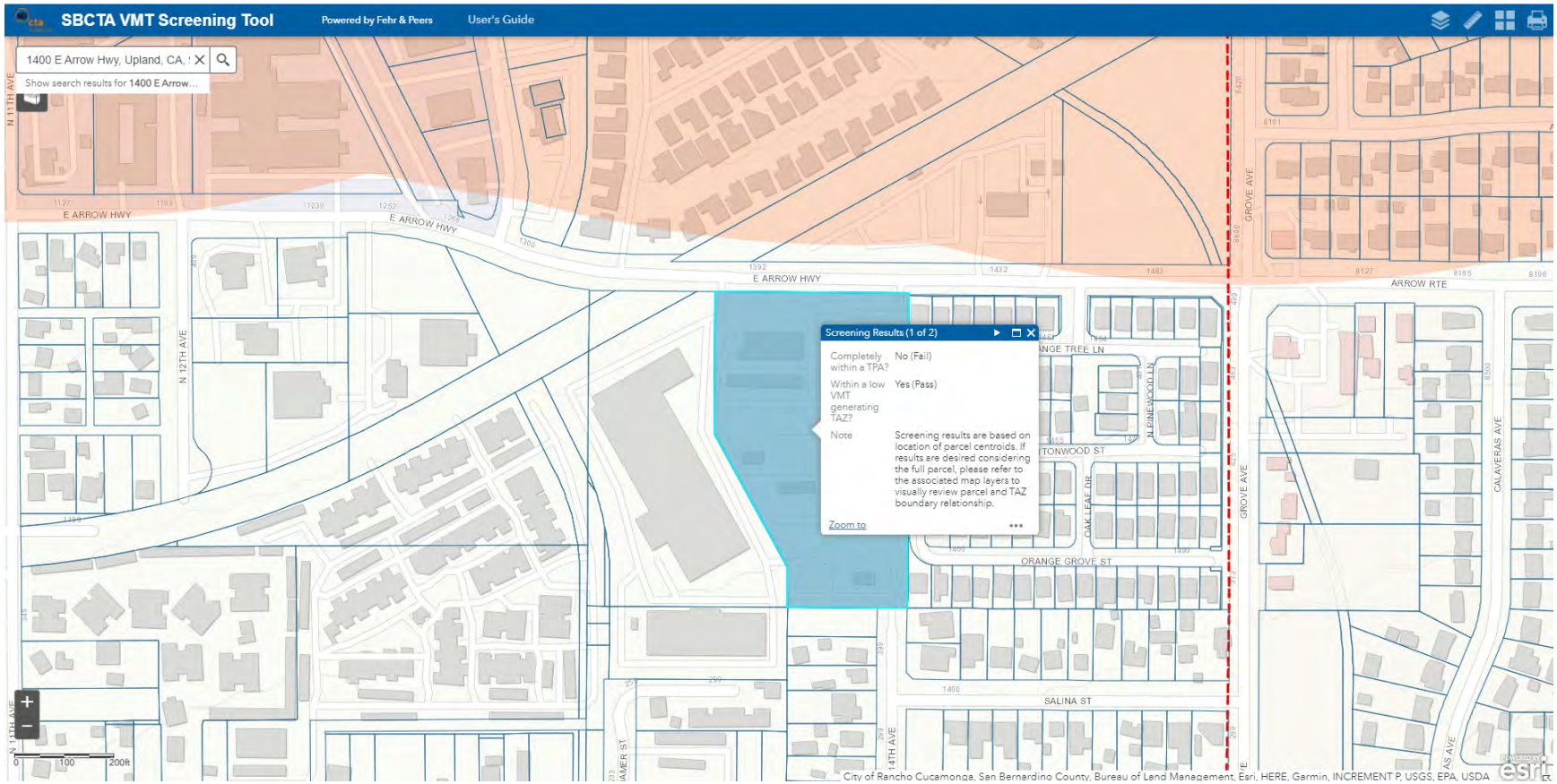
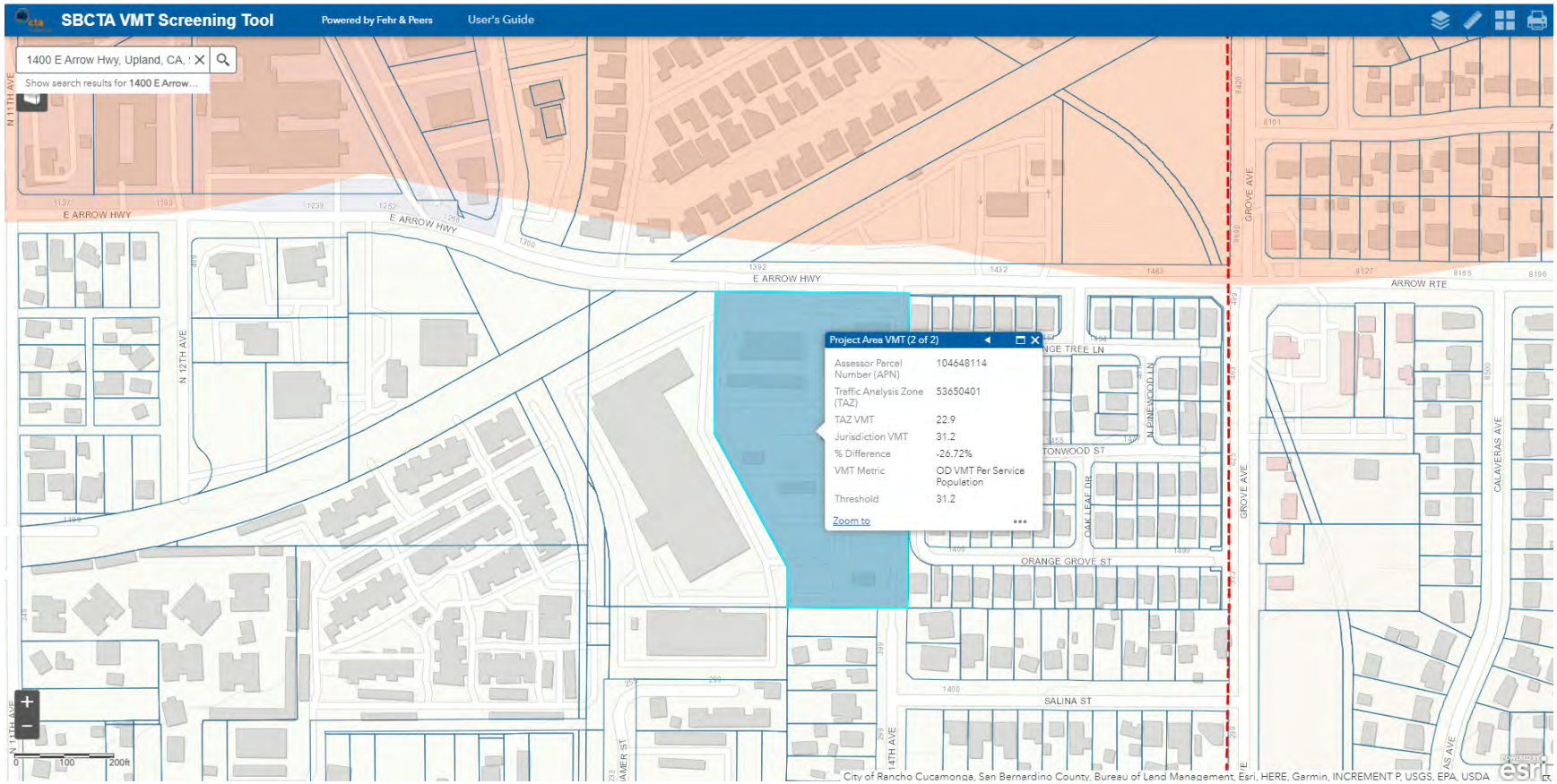


Figure 3 - Project Distribution



North

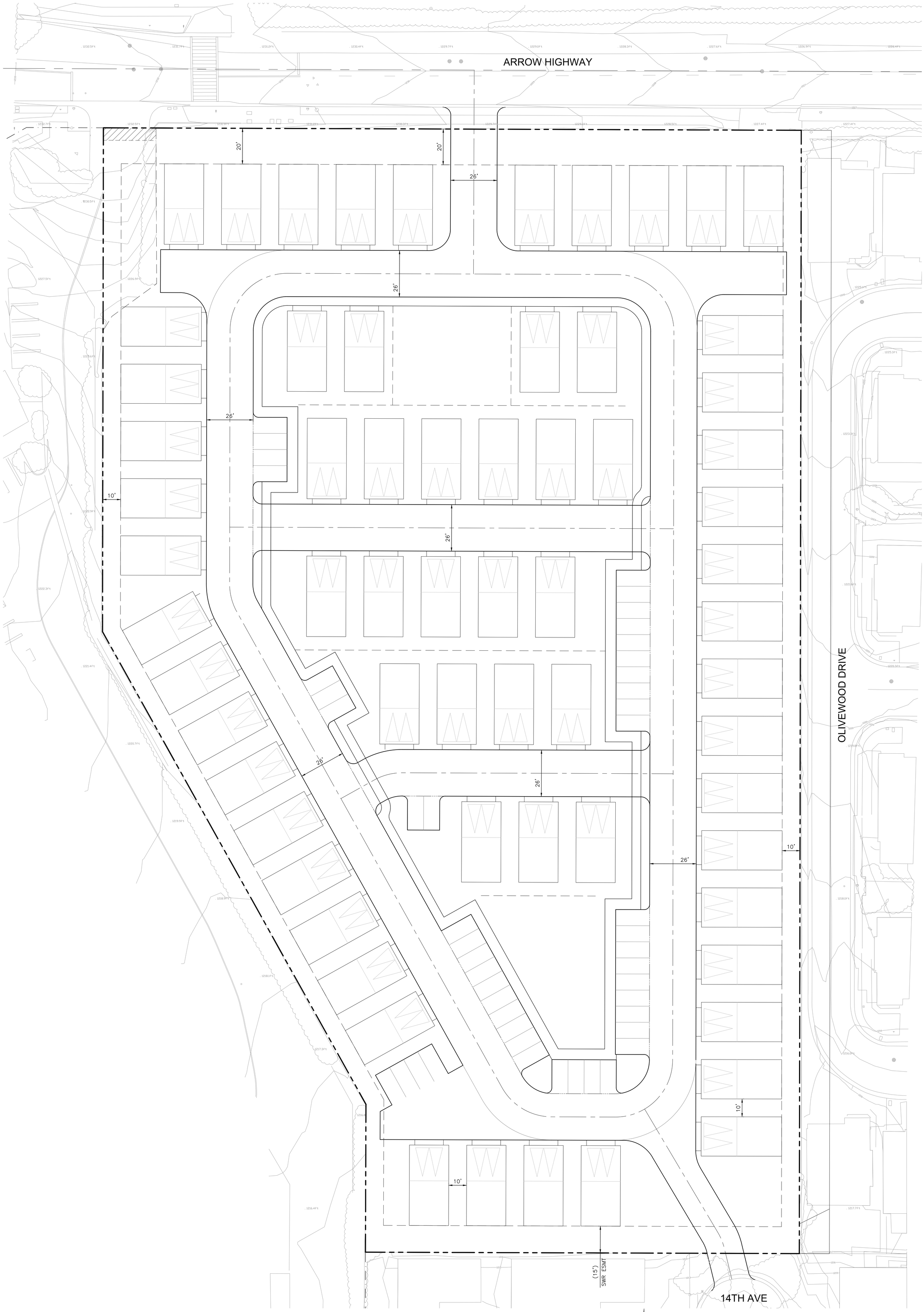
Figure 4 - VMT Screening Map



North

Figure 5 - VMT Screening Map

B – Proposed Site Plan



PROJECT SUMMARY

GROSS AREA: 4.9 ACRES
DWELLING UNIT COUNT: 65
DENSITY: 13.3 DU/AC

BUILDING SEPARATIONS:
10' SIDE TO SIDE
15' BACK TO BACK

GUEST PARKING PROVIDED: 45

OPEN SPACE NOT TABULATED AS PART OF THIS EXHIBIT

20' 0' 10' 20'
SCALE: 1" = 20'

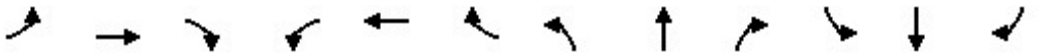
PRELMINARY SITE PLAN

CENTURY COMMUNITIES UPLAND 4.9
1400 E. ARROW HWY, UPLAND, CA

X ENGINEERING & CONSULTING, INC.
6 Hutton Centre Drive, Suite 650
Santa Ana, California 92707
949.522.7100 | xengineeringinc.com

P:\138\003\Exhibits\Conceptual\138-003 Engineered Site Plan.dwg Plotted At: July 28, 2021 8:49 AM Last Saved By: eric.lissner Last Saved At: July 27, 2021 2:30 PM

C – Level of Service Calculation Sheets



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	207	220	3	272	22	428	23	3	5	5	11
Future Volume (veh/h)	20	207	220	3	272	22	428	23	3	5	5	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1772	1673	1772	1870	1870	1772	1870	1673	1772	1870
Adj Flow Rate, veh/h	21	216	229	3	283	23	446	24	3	5	5	11
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	461	781	662	458	713	58	659	571	71	597	182	401
Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.37	0.37	0.37	0.37	0.37	0.37
Sat Flow, veh/h	960	1772	1502	845	1617	131	1397	1544	193	1238	493	1084
Grp Volume(v), veh/h	21	216	229	3	0	306	446	0	27	5	0	16
Grp Sat Flow(s),veh/h/ln	960	1772	1502	845	0	1748	1397	0	1737	1238	0	1577
Q Serve(g_s), s	0.7	3.7	4.8	0.1	0.0	5.6	14.2	0.0	0.5	0.1	0.0	0.3
Cycle Q Clear(g_c), s	6.4	3.7	4.8	3.8	0.0	5.6	14.5	0.0	0.5	0.6	0.0	0.3
Prop In Lane	1.00		1.00	1.00		0.08	1.00		0.11	1.00		0.69
Lane Grp Cap(c), veh/h	461	781	662	458	0	771	659	0	643	597	0	583
V/C Ratio(X)	0.05	0.28	0.35	0.01	0.00	0.40	0.68	0.00	0.04	0.01	0.00	0.03
Avail Cap(c_a), veh/h	461	781	662	458	0	771	890	0	930	802	0	844
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	11.2	8.5	8.8	9.7	0.0	9.0	14.2	0.0	9.6	9.8	0.0	9.5
Incr Delay (d2), s/veh	0.2	0.9	1.4	0.0	0.0	0.3	1.2	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	1.3	1.5	0.0	0.0	1.7	3.9	0.0	0.2	0.0	0.0	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	11.4	9.4	10.2	9.7	0.0	9.4	15.4	0.0	9.6	9.8	0.0	9.6
LnGrp LOS	B	A	B	A	A	A	B	A	A	A	A	A
Approach Vol, veh/h		466			309			473			21	
Approach Delay, s/veh		9.9			9.4			15.1			9.6	
Approach LOS		A			A			B			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.5		22.1		25.5		22.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		21.0		25.5		20.0		25.5				
Max Q Clear Time (g_c+I1), s		8.4		2.6		7.6		16.5				
Green Ext Time (p_c), s		1.8		0.0		1.4		1.1				

Intersection Summary												
HCM 6th Ctrl Delay			11.7									
HCM 6th LOS			B									

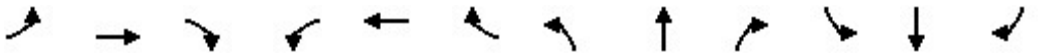
Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	15	212	8	10	439	16	8	10	28	9	7	2
Future Vol, veh/h	15	212	8	10	439	16	8	10	28	9	7	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	120	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	93	93	93	93	93	93	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	16	228	9	11	472	17	9	11	30	10	8	2

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	489	0	0	237	0	0	773	776	233	779	763	472
Stage 1	-	-	-	-	-	-	265	265	-	494	494	-
Stage 2	-	-	-	-	-	-	508	511	-	285	269	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1074	-	-	1330	-	-	316	328	806	313	334	592
Stage 1	-	-	-	-	-	-	740	689	-	557	546	-
Stage 2	-	-	-	-	-	-	547	537	-	722	687	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1074	-	-	1330	-	-	303	319	806	287	325	592
Mov Cap-2 Maneuver	-	-	-	-	-	-	303	319	-	287	325	-
Stage 1	-	-	-	-	-	-	727	677	-	548	540	-
Stage 2	-	-	-	-	-	-	532	531	-	672	675	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	0.2	13	17
HCM LOS			B	C

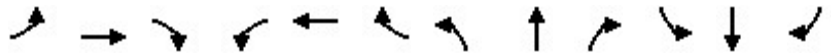
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	497	1074	-	-	1330	-	-	320
HCM Lane V/C Ratio	0.1	0.015	-	-	0.008	-	-	0.06
HCM Control Delay (s)	13	8.4	0	-	7.7	0	-	17
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	165	42	278	457	66	111	393	212	57	313	18
Future Volume (veh/h)	7	165	42	278	457	66	111	393	212	57	313	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1870
Adj Flow Rate, veh/h	8	177	45	299	491	71	119	423	228	61	337	19
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	205	541	137	442	600	87	407	794	673	316	745	42
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.45	0.45	0.45	0.45	0.45	0.45
Sat Flow, veh/h	759	1363	347	1037	1514	219	917	1772	1502	699	1661	94
Grp Volume(v), veh/h	8	0	222	299	0	562	119	423	228	61	0	356
Grp Sat Flow(s),veh/h/ln	759	0	1710	1037	0	1733	917	1772	1502	699	0	1755
Q Serve(g_s), s	0.6	0.0	5.2	16.3	0.0	16.8	6.0	10.0	5.7	4.0	0.0	8.1
Cycle Q Clear(g_c), s	17.4	0.0	5.2	21.5	0.0	16.8	14.1	10.0	5.7	14.1	0.0	8.1
Prop In Lane	1.00		0.20	1.00		0.13	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	205	0	678	442	0	687	407	794	673	316	0	787
V/C Ratio(X)	0.04	0.00	0.33	0.68	0.00	0.82	0.29	0.53	0.34	0.19	0.00	0.45
Avail Cap(c_a), veh/h	258	0	796	442	0	687	407	794	673	316	0	787
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	23.4	0.0	12.1	19.6	0.0	15.6	16.0	11.6	10.4	16.7	0.0	11.1
Incr Delay (d2), s/veh	0.1	0.0	0.3	4.1	0.0	7.7	1.8	2.6	1.4	1.4	0.0	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	1.8	4.0	0.0	7.2	1.3	3.9	1.9	0.7	0.0	3.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.5	0.0	12.4	23.7	0.0	23.3	17.8	14.1	11.8	18.0	0.0	13.0
LnGrp LOS	C	A	B	C	A	C	B	B	B	B	A	B
Approach Vol, veh/h		230			861			770			417	
Approach Delay, s/veh		12.8			23.4			14.0			13.7	
Approach LOS		B			C			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		30.5		27.5		30.5		27.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.0		27.0		18.0		23.0				
Max Q Clear Time (g_c+I1), s		16.1		19.4		16.1		23.5				
Green Ext Time (p_c), s		3.0		0.7		0.5		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			17.4									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	99	62	99	122	32	70	662	86	16	530	69
Future Volume (veh/h)	56	99	62	99	122	32	70	662	86	16	530	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1772
Adj Flow Rate, veh/h	62	110	69	110	136	36	78	736	0	18	589	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	347	263	165	338	348	92	490	1837		427	1837	
Arrive On Green	0.26	0.26	0.26	0.26	0.26	0.26	0.55	0.55	0.00	0.55	0.55	0.00
Sat Flow, veh/h	1085	1018	639	1078	1350	357	740	3367	1502	646	3367	1502
Grp Volume(v), veh/h	62	0	179	110	0	172	78	736	0	18	589	0
Grp Sat Flow(s),veh/h/ln	1085	0	1657	1078	0	1708	740	1683	1502	646	1683	1502
Q Serve(g_s), s	2.3	0.0	4.1	4.3	0.0	3.8	3.0	5.8	0.0	0.8	4.4	0.0
Cycle Q Clear(g_c), s	6.1	0.0	4.1	8.4	0.0	3.8	7.4	5.8	0.0	6.6	4.4	0.0
Prop In Lane	1.00		0.39	1.00		0.21	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	347	0	427	338	0	440	490	1837		427	1837	
V/C Ratio(X)	0.18	0.00	0.42	0.33	0.00	0.39	0.16	0.40		0.04	0.32	
Avail Cap(c_a), veh/h	801	0	1121	790	0	1155	490	1837		427	1837	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	16.5	0.0	14.1	17.7	0.0	14.0	7.8	6.1	0.0	8.0	5.7	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.7	0.6	0.0	0.6	0.7	0.7	0.0	0.2	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	1.4	1.0	0.0	1.3	0.5	1.5	0.0	0.1	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.8	0.0	14.8	18.2	0.0	14.6	8.5	6.7	0.0	8.2	6.2	0.0
LnGrp LOS	B	A	B	B	A	B	A	A		A	A	
Approach Vol, veh/h		241			282			814	A		607	A
Approach Delay, s/veh		15.3			16.0			6.9			6.3	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	29.5	16.3	29.5	16.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.0	31.0	25.0	31.0
Max Q Clear Time (g_c+I1), s	9.4	8.1	8.6	10.4
Green Ext Time (p_c), s	5.1	1.3	3.8	1.4

Intersection Summary	
HCM 6th Ctrl Delay	9.0
HCM 6th LOS	A

Notes

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

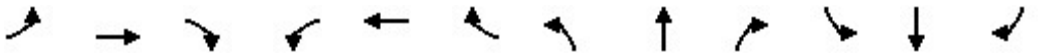
Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	209	1	0	586	1	0
Future Vol, veh/h	209	1	0	586	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	235	1	0	658	1	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	236	0	894	236
Stage 1	-	-	-	-	236	-
Stage 2	-	-	-	-	658	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1331	-	312	803
Stage 1	-	-	-	-	803	-
Stage 2	-	-	-	-	515	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1331	-	312	803
Mov Cap-2 Maneuver	-	-	-	-	312	-
Stage 1	-	-	-	-	803	-
Stage 2	-	-	-	-	515	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	16.6
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	312	-	-	1331	-
HCM Lane V/C Ratio	0.004	-	-	-	-
HCM Control Delay (s)	16.6	-	-	0	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	349	482	2	259	4	280	5	2	19	20	20
Future Volume (veh/h)	6	349	482	2	259	4	280	5	2	19	20	20
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1772	1673	1772	1870	1870	1772	1870	1673	1772	1870
Adj Flow Rate, veh/h	6	356	492	2	264	4	286	5	2	19	20	20
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	589	897	760	396	882	13	527	333	133	518	225	225
Arrive On Green	0.51	0.51	0.51	0.51	0.51	0.51	0.28	0.28	0.28	0.28	0.28	0.28
Sat Flow, veh/h	994	1772	1502	581	1741	26	1367	1204	482	1260	813	813
Grp Volume(v), veh/h	6	356	492	2	0	268	286	0	7	19	0	40
Grp Sat Flow(s),veh/h/ln	994	1772	1502	581	0	1767	1367	0	1685	1260	0	1626
Q Serve(g_s), s	0.1	5.1	10.0	0.1	0.0	3.7	8.1	0.0	0.1	0.5	0.0	0.8
Cycle Q Clear(g_c), s	3.8	5.1	10.0	5.2	0.0	3.7	8.9	0.0	0.1	0.6	0.0	0.8
Prop In Lane	1.00		1.00	1.00		0.01	1.00		0.29	1.00		0.50
Lane Grp Cap(c), veh/h	589	897	760	396	0	895	527	0	466	518	0	450
V/C Ratio(X)	0.01	0.40	0.65	0.01	0.00	0.30	0.54	0.00	0.02	0.04	0.00	0.09
Avail Cap(c_a), veh/h	589	897	760	396	0	895	989	0	1036	945	0	1000
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.1	6.3	7.5	7.9	0.0	6.0	14.4	0.0	10.9	11.1	0.0	11.1
Incr Delay (d2), s/veh	0.0	1.3	4.2	0.0	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.6	2.9	0.0	0.0	0.9	2.2	0.0	0.0	0.1	0.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.1	7.6	11.7	7.9	0.0	6.1	15.3	0.0	10.9	11.1	0.0	11.2
LnGrp LOS	A	A	B	A	A	A	B	A	B	B	A	B
Approach Vol, veh/h		854			270			293			59	
Approach Delay, s/veh		10.0			6.2			15.2			11.2	
Approach LOS		A			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.5		16.0		25.5		16.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		21.0		25.5		20.0		25.5				
Max Q Clear Time (g_c+I1), s		12.0		2.8		7.2		10.9				
Green Ext Time (p_c), s		2.9		0.2		1.2		0.8				

Intersection Summary												
HCM 6th Ctrl Delay			10.4									
HCM 6th LOS			B									

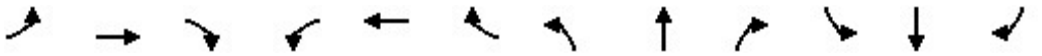
Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	482	7	27	283	7	6	9	17	16	15	11
Future Vol, veh/h	3	482	7	27	283	7	6	9	17	16	15	11
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	120	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	507	7	28	298	7	6	9	18	17	16	12

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	305	0	0	514	0	0	889	878	511	884	874	298
Stage 1	-	-	-	-	-	-	517	517	-	354	354	-
Stage 2	-	-	-	-	-	-	372	361	-	530	520	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1256	-	-	1052	-	-	264	287	563	266	288	741
Stage 1	-	-	-	-	-	-	541	534	-	663	630	-
Stage 2	-	-	-	-	-	-	648	626	-	533	532	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1256	-	-	1052	-	-	242	277	563	244	278	741
Mov Cap-2 Maneuver	-	-	-	-	-	-	242	277	-	244	278	-
Stage 1	-	-	-	-	-	-	539	532	-	661	610	-
Stage 2	-	-	-	-	-	-	601	606	-	505	530	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.7	15.8	18.4
HCM LOS			C	C

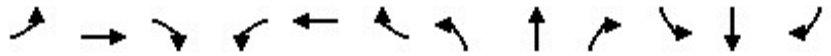
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	366	1256	-	-	1052	-	-	313
HCM Lane V/C Ratio	0.092	0.003	-	-	0.027	-	-	0.141
HCM Control Delay (s)	15.8	7.9	0	-	8.5	0	-	18.4
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.3	0	-	-	0.1	-	-	0.5



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	509	82	115	237	97	32	429	276	106	406	8
Future Volume (veh/h)	12	509	82	115	237	97	32	429	276	106	406	8
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1870
Adj Flow Rate, veh/h	13	536	86	121	249	102	34	452	291	112	427	8
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	349	601	96	171	482	197	346	786	666	285	769	14
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.44	0.44	0.44	0.44	0.44	0.44
Sat Flow, veh/h	922	1490	239	718	1195	489	853	1772	1502	641	1734	32
Grp Volume(v), veh/h	13	0	622	121	0	351	34	452	291	112	0	435
Grp Sat Flow(s),veh/h/ln	922	0	1729	718	0	1684	853	1772	1502	641	0	1766
Q Serve(g_s), s	0.6	0.0	19.7	4.0	0.0	9.2	1.8	11.2	7.8	9.3	0.0	10.7
Cycle Q Clear(g_c), s	9.8	0.0	19.7	23.6	0.0	9.2	12.5	11.2	7.8	20.5	0.0	10.7
Prop In Lane	1.00		0.14	1.00		0.29	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	349	0	697	171	0	679	346	786	666	285	0	783
V/C Ratio(X)	0.04	0.00	0.89	0.71	0.00	0.52	0.10	0.58	0.44	0.39	0.00	0.56
Avail Cap(c_a), veh/h	402	0	796	171	0	679	346	786	666	285	0	783
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.9	0.0	16.3	28.5	0.0	13.2	16.7	12.2	11.3	19.8	0.0	12.1
Incr Delay (d2), s/veh	0.0	0.0	11.4	12.4	0.0	0.7	0.6	3.1	2.1	4.0	0.0	2.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	8.8	2.2	0.0	3.2	0.4	4.4	2.6	1.6	0.0	4.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.0	0.0	27.7	40.9	0.0	13.9	17.2	15.3	13.4	23.9	0.0	14.9
LnGrp LOS	B	A	C	D	A	B	B	B	B	C	A	B
Approach Vol, veh/h		635			472			777			547	
Approach Delay, s/veh		27.5			20.8			14.6			16.7	
Approach LOS		C			C			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		30.5		28.1		30.5		28.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.0		27.0		18.0		23.0				
Max Q Clear Time (g_c+I1), s		14.5		21.7		22.5		25.6				
Green Ext Time (p_c), s		3.3		2.0		0.0		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			19.7									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	74	166	63	69	90	19	65	626	97	25	527	41
Future Volume (veh/h)	74	166	63	69	90	19	65	626	97	25	527	41
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1772
Adj Flow Rate, veh/h	77	173	66	72	94	20	68	652	0	26	549	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	386	308	118	290	357	76	513	1851		467	1851	
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.55	0.55	0.00	0.55	0.55	0.00
Sat Flow, veh/h	1144	1222	466	1021	1416	301	768	3367	1502	698	3367	1502
Grp Volume(v), veh/h	77	0	239	72	0	114	68	652	0	26	549	0
Grp Sat Flow(s),veh/h/ln	1144	0	1688	1021	0	1718	768	1683	1502	698	1683	1502
Q Serve(g_s), s	2.6	0.0	5.6	3.0	0.0	2.4	2.4	4.9	0.0	1.0	4.0	0.0
Cycle Q Clear(g_c), s	5.0	0.0	5.6	8.6	0.0	2.4	6.4	4.9	0.0	5.9	4.0	0.0
Prop In Lane	1.00		0.28	1.00		0.18	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	386	0	425	290	0	433	513	1851		467	1851	
V/C Ratio(X)	0.20	0.00	0.56	0.25	0.00	0.26	0.13	0.35		0.06	0.30	
Avail Cap(c_a), veh/h	878	0	1151	729	0	1171	513	1851		467	1851	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	15.6	0.0	14.8	18.6	0.0	13.6	7.2	5.7	0.0	7.4	5.5	0.0
Incr Delay (d2), s/veh	0.3	0.0	1.2	0.4	0.0	0.3	0.5	0.5	0.0	0.2	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	2.0	0.7	0.0	0.8	0.4	1.3	0.0	0.1	1.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.9	0.0	16.0	19.0	0.0	13.9	7.7	6.2	0.0	7.6	5.9	0.0
LnGrp LOS	B	A	B	B	A	B	A	A		A	A	
Approach Vol, veh/h		316			186			720	A		575	A
Approach Delay, s/veh		16.0			15.9			6.4			6.0	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	29.5	16.0	29.5	16.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.0	31.0	25.0	31.0
Max Q Clear Time (g_c+I1), s	8.4	7.6	7.9	10.6
Green Ext Time (p_c), s	4.6	1.7	3.6	0.9

Intersection Summary	
HCM 6th Ctrl Delay	8.9
HCM 6th LOS	A

Notes

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

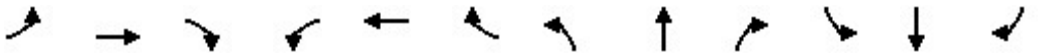
Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	599	1	2	272	0	3
Future Vol, veh/h	599	1	2	272	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	644	1	2	292	0	3

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	645	0	941	645
Stage 1	-	-	-	-	645	-
Stage 2	-	-	-	-	296	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	940	-	292	472
Stage 1	-	-	-	-	522	-
Stage 2	-	-	-	-	755	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	940	-	291	472
Mov Cap-2 Maneuver	-	-	-	-	291	-
Stage 1	-	-	-	-	522	-
Stage 2	-	-	-	-	753	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	12.7
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	472	-	-	940	-
HCM Lane V/C Ratio	0.007	-	-	0.002	-
HCM Control Delay (s)	12.7	-	-	8.8	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	223	237	3	293	24	461	25	3	5	5	12
Future Volume (veh/h)	22	223	237	3	293	24	461	25	3	5	5	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1772	1673	1772	1870	1870	1772	1870	1673	1772	1870
Adj Flow Rate, veh/h	23	232	247	3	305	25	480	26	3	5	5	12
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	421	755	640	424	688	56	683	611	70	617	181	435
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.39	0.39	0.39	0.39	0.39	0.39
Sat Flow, veh/h	939	1772	1502	819	1616	132	1396	1560	180	1236	462	1110
Grp Volume(v), veh/h	23	232	247	3	0	330	480	0	29	5	0	17
Grp Sat Flow(s),veh/h/ln	939	1772	1502	819	0	1748	1396	0	1740	1236	0	1572
Q Serve(g_s), s	0.9	4.3	5.6	0.1	0.0	6.6	15.9	0.0	0.5	0.1	0.0	0.3
Cycle Q Clear(g_c), s	7.5	4.3	5.6	4.4	0.0	6.6	16.2	0.0	0.5	0.6	0.0	0.3
Prop In Lane	1.00		1.00	1.00		0.08	1.00		0.10	1.00		0.71
Lane Grp Cap(c), veh/h	421	755	640	424	0	744	683	0	681	617	0	616
V/C Ratio(X)	0.05	0.31	0.39	0.01	0.00	0.44	0.70	0.00	0.04	0.01	0.00	0.03
Avail Cap(c_a), veh/h	421	755	640	424	0	744	859	0	900	772	0	813
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.7	9.4	9.7	10.8	0.0	10.0	14.2	0.0	9.3	9.5	0.0	9.2
Incr Delay (d2), s/veh	0.2	1.1	1.8	0.0	0.0	0.4	1.9	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	1.6	1.8	0.0	0.0	2.1	4.4	0.0	0.2	0.0	0.0	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	12.9	10.4	11.5	10.8	0.0	10.4	16.1	0.0	9.3	9.5	0.0	9.2
LnGrp LOS	B	B	B	B	A	B	B	A	A	A	A	A
Approach Vol, veh/h		502			333			509			22	
Approach Delay, s/veh		11.1			10.4			15.7			9.3	
Approach LOS		B			B			B			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.5		23.8		25.5		23.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		21.0		25.5		20.0		25.5				
Max Q Clear Time (g_c+I1), s		9.5		2.6		8.6		18.2				
Green Ext Time (p_c), s		1.8		0.1		1.5		1.1				

Intersection Summary												
HCM 6th Ctrl Delay			12.6									
HCM 6th LOS			B									

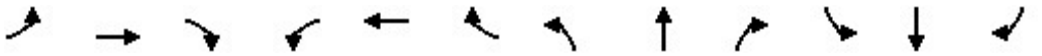
Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	228	9	11	473	17	9	11	30	10	8	2
Future Vol, veh/h	16	228	9	11	473	17	9	11	30	10	8	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	120	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	240	9	12	498	18	9	12	32	11	8	2

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	516	0	0	249	0	0	815	819	245	823	805	498
Stage 1	-	-	-	-	-	-	279	279	-	522	522	-
Stage 2	-	-	-	-	-	-	536	540	-	301	283	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1050	-	-	1317	-	-	296	310	794	292	316	572
Stage 1	-	-	-	-	-	-	728	680	-	538	531	-
Stage 2	-	-	-	-	-	-	529	521	-	708	677	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1050	-	-	1317	-	-	282	300	794	265	306	572
Mov Cap-2 Maneuver	-	-	-	-	-	-	282	300	-	265	306	-
Stage 1	-	-	-	-	-	-	714	667	-	528	524	-
Stage 2	-	-	-	-	-	-	512	514	-	655	664	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	0.2	13.6	18
HCM LOS			B	C

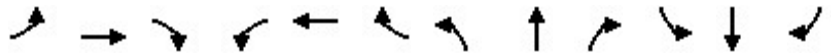
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	470	1050	-	-	1317	-	-	297
HCM Lane V/C Ratio	0.112	0.016	-	-	0.009	-	-	0.071
HCM Control Delay (s)	13.6	8.5	0	-	7.8	0	-	18
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0	-	-	0	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	178	45	299	492	71	120	423	228	61	337	19
Future Volume (veh/h)	8	178	45	299	492	71	120	423	228	61	337	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1870
Adj Flow Rate, veh/h	8	187	47	315	518	75	126	445	240	64	355	20
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	185	542	136	433	600	87	393	794	673	302	745	42
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.45	0.45	0.45	0.45	0.45	0.45
Sat Flow, veh/h	737	1367	343	1026	1513	219	902	1772	1502	677	1661	94
Grp Volume(v), veh/h	8	0	234	315	0	593	126	445	240	64	0	375
Grp Sat Flow(s),veh/h/ln	737	0	1710	1026	0	1732	902	1772	1502	677	0	1755
Q Serve(g_s), s	0.6	0.0	5.5	17.5	0.0	18.2	6.6	10.7	6.1	4.5	0.0	8.7
Cycle Q Clear(g_c), s	18.8	0.0	5.5	23.0	0.0	18.2	15.3	10.7	6.1	15.2	0.0	8.7
Prop In Lane	1.00		0.20	1.00		0.13	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	185	0	678	433	0	687	393	794	673	302	0	787
V/C Ratio(X)	0.04	0.00	0.35	0.73	0.00	0.86	0.32	0.56	0.36	0.21	0.00	0.48
Avail Cap(c_a), veh/h	236	0	796	433	0	687	393	794	673	302	0	787
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.7	0.0	12.2	20.5	0.0	16.1	16.6	11.8	10.5	17.4	0.0	11.2
Incr Delay (d2), s/veh	0.1	0.0	0.3	6.1	0.0	11.0	2.1	2.8	1.5	1.6	0.0	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	1.9	4.5	0.0	8.3	1.5	4.2	2.0	0.8	0.0	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.8	0.0	12.5	26.5	0.0	27.1	18.7	14.6	12.0	19.0	0.0	13.3
LnGrp LOS	C	A	B	C	A	C	B	B	B	B	A	B
Approach Vol, veh/h		242			908			811			439	
Approach Delay, s/veh		12.9			26.9			14.5			14.1	
Approach LOS		B			C			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		30.5		27.5		30.5		27.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.0		27.0		18.0		23.0				
Max Q Clear Time (g_c+I1), s		17.3		20.8		17.2		25.0				
Green Ext Time (p_c), s		2.9		0.7		0.2		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			19.0									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	107	67	107	131	34	75	713	93	17	571	74
Future Volume (veh/h)	60	107	67	107	131	34	75	713	93	17	571	74
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1772
Adj Flow Rate, veh/h	63	113	71	113	138	36	79	751	0	18	601	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	351	268	168	340	356	93	480	1824		417	1824	
Arrive On Green	0.26	0.26	0.26	0.26	0.26	0.26	0.54	0.54	0.00	0.54	0.54	0.00
Sat Flow, veh/h	1083	1018	639	1073	1355	353	732	3367	1502	637	3367	1502
Grp Volume(v), veh/h	63	0	184	113	0	174	79	751	0	18	601	0
Grp Sat Flow(s),veh/h/ln	1083	0	1657	1073	0	1708	732	1683	1502	637	1683	1502
Q Serve(g_s), s	2.3	0.0	4.2	4.5	0.0	3.9	3.1	6.1	0.0	0.8	4.6	0.0
Cycle Q Clear(g_c), s	6.2	0.0	4.2	8.7	0.0	3.9	7.7	6.1	0.0	6.9	4.6	0.0
Prop In Lane	1.00		0.39	1.00		0.21	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	351	0	436	340	0	449	480	1824		417	1824	
V/C Ratio(X)	0.18	0.00	0.42	0.33	0.00	0.39	0.16	0.41		0.04	0.33	
Avail Cap(c_a), veh/h	793	0	1113	778	0	1148	480	1824		417	1824	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	16.5	0.0	14.1	17.7	0.0	13.9	8.0	6.2	0.0	8.3	5.9	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.6	0.6	0.0	0.5	0.7	0.7	0.0	0.2	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	1.4	1.0	0.0	1.3	0.5	1.6	0.0	0.1	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.7	0.0	14.7	18.3	0.0	14.5	8.8	6.9	0.0	8.5	6.4	0.0
LnGrp LOS	B	A	B	B	A	B	A	A		A	A	
Approach Vol, veh/h		247			287			830	A		619	A
Approach Delay, s/veh		15.2			16.0			7.1			6.4	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	29.5	16.6	29.5	16.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.0	31.0	25.0	31.0
Max Q Clear Time (g_c+I1), s	9.7	8.2	8.9	10.7
Green Ext Time (p_c), s	5.2	1.3	3.9	1.4

Intersection Summary	
HCM 6th Ctrl Delay	9.2
HCM 6th LOS	A

Notes

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

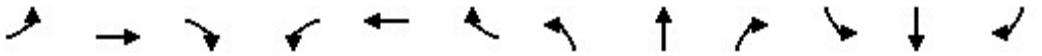
Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	225	1	0	631	1	0
Future Vol, veh/h	225	1	0	631	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	237	1	0	664	1	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	238	0	902	238
Stage 1	-	-	-	-	238	-
Stage 2	-	-	-	-	664	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1329	-	308	801
Stage 1	-	-	-	-	802	-
Stage 2	-	-	-	-	512	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1329	-	308	801
Mov Cap-2 Maneuver	-	-	-	-	308	-
Stage 1	-	-	-	-	802	-
Stage 2	-	-	-	-	512	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	16.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	308	-	-	1329	-
HCM Lane V/C Ratio	0.003	-	-	-	-
HCM Control Delay (s)	16.7	-	-	0	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	376	519	2	279	4	302	5	2	20	22	22
Future Volume (veh/h)	6	376	519	2	279	4	302	5	2	20	22	22
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1772	1673	1772	1870	1870	1772	1870	1673	1772	1870
Adj Flow Rate, veh/h	6	384	530	2	285	4	308	5	2	20	22	22
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	554	875	741	363	861	12	544	355	142	537	239	239
Arrive On Green	0.49	0.49	0.49	0.49	0.49	0.49	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	975	1772	1502	547	1743	24	1362	1204	482	1260	813	813
Grp Volume(v), veh/h	6	384	530	2	0	289	308	0	7	20	0	44
Grp Sat Flow(s),veh/h/ln	975	1772	1502	547	0	1768	1362	0	1685	1260	0	1626
Q Serve(g_s), s	0.2	6.0	11.7	0.1	0.0	4.2	9.0	0.0	0.1	0.5	0.0	0.8
Cycle Q Clear(g_c), s	4.4	6.0	11.7	6.1	0.0	4.2	9.8	0.0	0.1	0.6	0.0	0.8
Prop In Lane	1.00		1.00	1.00		0.01	1.00		0.29	1.00		0.50
Lane Grp Cap(c), veh/h	554	875	741	363	0	873	544	0	497	537	0	479
V/C Ratio(X)	0.01	0.44	0.71	0.01	0.00	0.33	0.57	0.00	0.01	0.04	0.00	0.09
Avail Cap(c_a), veh/h	554	875	741	363	0	873	959	0	1010	921	0	975
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.8	7.0	8.4	8.9	0.0	6.5	14.4	0.0	10.6	10.8	0.0	10.9
Incr Delay (d2), s/veh	0.0	1.6	5.8	0.0	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.9	3.7	0.0	0.0	1.1	2.4	0.0	0.0	0.1	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.9	8.6	14.2	8.9	0.0	6.7	15.4	0.0	10.6	10.9	0.0	11.0
LnGrp LOS	A	A	B	A	A	A	B	A	B	B	A	B
Approach Vol, veh/h		920			291			315			64	
Approach Delay, s/veh		11.8			6.8			15.3			10.9	
Approach LOS		B			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.5		17.0		25.5		17.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		21.0		25.5		20.0		25.5				
Max Q Clear Time (g_c+I1), s		13.7		2.8		8.1		11.8				
Green Ext Time (p_c), s		2.7		0.2		1.3		0.8				

Intersection Summary												
HCM 6th Ctrl Delay			11.5									
HCM 6th LOS			B									

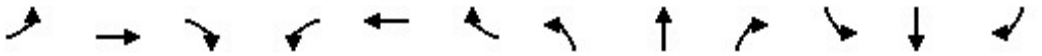
Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	519	8	29	305	8	6	10	18	17	16	12
Future Vol, veh/h	3	519	8	29	305	8	6	10	18	17	16	12
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	120	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	546	8	31	321	8	6	11	19	18	17	13

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	329	0	0	554	0	0	958	947	550	954	943	321
Stage 1	-	-	-	-	-	-	556	556	-	383	383	-
Stage 2	-	-	-	-	-	-	402	391	-	571	560	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1231	-	-	1016	-	-	237	261	535	238	263	720
Stage 1	-	-	-	-	-	-	515	513	-	640	612	-
Stage 2	-	-	-	-	-	-	625	607	-	506	511	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1231	-	-	1016	-	-	214	250	535	215	252	720
Mov Cap-2 Maneuver	-	-	-	-	-	-	214	250	-	215	252	-
Stage 1	-	-	-	-	-	-	513	511	-	637	589	-
Stage 2	-	-	-	-	-	-	574	585	-	476	509	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.7	17.1	20.3
HCM LOS			C	C

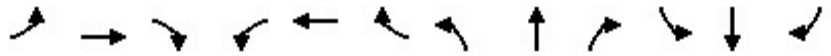
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	334	1231	-	-	1016	-	-	283
HCM Lane V/C Ratio	0.107	0.003	-	-	0.03	-	-	0.167
HCM Control Delay (s)	17.1	7.9	0	-	8.7	0	-	20.3
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0	-	-	0.1	-	-	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	548	88	124	255	104	34	462	297	114	437	9
Future Volume (veh/h)	13	548	88	124	255	104	34	462	297	114	437	9
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1870
Adj Flow Rate, veh/h	14	577	93	131	268	109	36	486	313	120	460	9
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	347	626	101	156	504	205	305	762	646	250	745	15
Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43
Sat Flow, veh/h	900	1489	240	686	1197	487	827	1772	1502	609	1732	34
Grp Volume(v), veh/h	14	0	670	131	0	377	36	486	313	120	0	469
Grp Sat Flow(s),veh/h/ln	900	0	1729	686	0	1684	827	1772	1502	609	0	1766
Q Serve(g_s), s	0.7	0.0	22.1	3.3	0.0	10.1	2.1	13.0	9.1	11.6	0.0	12.4
Cycle Q Clear(g_c), s	10.8	0.0	22.1	25.4	0.0	10.1	14.6	13.0	9.1	24.7	0.0	12.4
Prop In Lane	1.00		0.14	1.00		0.29	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	347	0	727	156	0	709	305	762	646	250	0	760
V/C Ratio(X)	0.04	0.00	0.92	0.84	0.00	0.53	0.12	0.64	0.48	0.48	0.00	0.62
Avail Cap(c_a), veh/h	371	0	772	156	0	709	305	762	646	250	0	760
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	17.1	0.0	16.6	29.7	0.0	13.1	19.0	13.5	12.4	23.2	0.0	13.4
Incr Delay (d2), s/veh	0.0	0.0	15.8	31.1	0.0	0.8	0.8	4.0	2.6	6.5	0.0	3.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	10.7	3.2	0.0	3.5	0.4	5.3	3.1	2.0	0.0	5.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.1	0.0	32.4	60.8	0.0	13.8	19.8	17.6	15.0	29.7	0.0	17.1
LnGrp LOS	B	A	C	E	A	B	B	B	B	C	A	B
Approach Vol, veh/h		684			508			835			589	
Approach Delay, s/veh		32.1			26.0			16.7			19.7	
Approach LOS		C			C			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		30.5		29.9		30.5		29.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.0		27.0		18.0		23.0				
Max Q Clear Time (g_c+I1), s		16.6		24.1		26.7		27.4				
Green Ext Time (p_c), s		3.2		1.3		0.0		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			23.2									
HCM 6th LOS			C									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	179	68	74	97	20	70	674	104	27	568	44
Future Volume (veh/h)	80	179	68	74	97	20	70	674	104	27	568	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1772
Adj Flow Rate, veh/h	83	186	71	77	101	21	73	702	0	28	592	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	394	326	124	291	379	79	481	1816		434	1816	
Arrive On Green	0.27	0.27	0.27	0.27	0.27	0.27	0.54	0.54	0.00	0.54	0.54	0.00
Sat Flow, veh/h	1136	1222	466	1004	1423	296	738	3367	1502	666	3367	1502
Grp Volume(v), veh/h	83	0	257	77	0	122	73	702	0	28	592	0
Grp Sat Flow(s),veh/h/ln	1136	0	1688	1004	0	1719	738	1683	1502	666	1683	1502
Q Serve(g_s), s	2.9	0.0	6.1	3.3	0.0	2.6	2.8	5.6	0.0	1.2	4.6	0.0
Cycle Q Clear(g_c), s	5.5	0.0	6.1	9.4	0.0	2.6	7.4	5.6	0.0	6.8	4.6	0.0
Prop In Lane	1.00		0.28	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	394	0	450	291	0	458	481	1816		434	1816	
V/C Ratio(X)	0.21	0.00	0.57	0.26	0.00	0.27	0.15	0.39		0.06	0.33	
Avail Cap(c_a), veh/h	851	0	1129	695	0	1149	481	1816		434	1816	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	15.6	0.0	14.7	18.8	0.0	13.4	8.0	6.2	0.0	8.2	6.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	1.1	0.5	0.0	0.3	0.7	0.6	0.0	0.3	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	2.1	0.7	0.0	0.9	0.4	1.5	0.0	0.2	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.8	0.0	15.9	19.3	0.0	13.7	8.7	6.8	0.0	8.5	6.4	0.0
LnGrp LOS	B	A	B	B	A	B	A	A		A	A	
Approach Vol, veh/h		340			199			775	A		620	A
Approach Delay, s/veh		15.9			15.9			7.0			6.5	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	29.5	16.9	29.5	16.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.0	31.0	25.0	31.0
Max Q Clear Time (g_c+I1), s	9.4	8.1	8.8	11.4
Green Ext Time (p_c), s	4.9	1.9	3.9	0.9

Intersection Summary	
HCM 6th Ctrl Delay	9.3
HCM 6th LOS	A

Notes

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

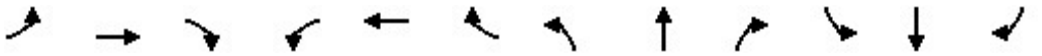
Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	645	1	2	293	0	3
Future Vol, veh/h	645	1	2	293	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	679	1	2	308	0	3

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	680	0	992	680
Stage 1	-	-	-	-	680	-
Stage 2	-	-	-	-	312	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	912	-	272	451
Stage 1	-	-	-	-	503	-
Stage 2	-	-	-	-	742	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	912	-	271	451
Mov Cap-2 Maneuver	-	-	-	-	271	-
Stage 1	-	-	-	-	503	-
Stage 2	-	-	-	-	740	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	13
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	451	-	-	912	-
HCM Lane V/C Ratio	0.007	-	-	0.002	-
HCM Control Delay (s)	13	-	-	9	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	223	240	3	293	24	470	25	3	5	5	12
Future Volume (veh/h)	22	223	240	3	293	24	470	25	3	5	5	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1772	1673	1772	1870	1870	1772	1870	1673	1772	1870
Adj Flow Rate, veh/h	23	232	250	3	305	25	490	26	3	5	5	12
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	414	747	633	418	681	56	690	620	72	623	184	441
Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.40	0.40	0.40	0.40	0.40	0.40
Sat Flow, veh/h	939	1772	1502	817	1616	132	1396	1560	180	1236	462	1110
Grp Volume(v), veh/h	23	232	250	3	0	330	490	0	29	5	0	17
Grp Sat Flow(s),veh/h/ln	939	1772	1502	817	0	1748	1396	0	1740	1236	0	1572
Q Serve(g_s), s	0.9	4.3	5.8	0.1	0.0	6.7	16.4	0.0	0.5	0.1	0.0	0.3
Cycle Q Clear(g_c), s	7.6	4.3	5.8	4.5	0.0	6.7	16.7	0.0	0.5	0.6	0.0	0.3
Prop In Lane	1.00		1.00	1.00		0.08	1.00		0.10	1.00		0.71
Lane Grp Cap(c), veh/h	414	747	633	418	0	737	690	0	692	623	0	625
V/C Ratio(X)	0.06	0.31	0.39	0.01	0.00	0.45	0.71	0.00	0.04	0.01	0.00	0.03
Avail Cap(c_a), veh/h	414	747	633	418	0	737	850	0	891	765	0	805
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	13.0	9.6	10.0	11.1	0.0	10.3	14.2	0.0	9.2	9.4	0.0	9.1
Incr Delay (d2), s/veh	0.3	1.1	1.8	0.0	0.0	0.4	2.1	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	1.6	1.9	0.0	0.0	2.2	4.6	0.0	0.2	0.0	0.0	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	13.2	10.7	11.8	11.1	0.0	10.7	16.3	0.0	9.2	9.4	0.0	9.2
LnGrp LOS	B	B	B	B	A	B	B	A	A	A	A	A
Approach Vol, veh/h		505			333			519			22	
Approach Delay, s/veh		11.4			10.7			15.9			9.2	
Approach LOS		B			B			B			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.5		24.3		25.5		24.3				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		21.0		25.5		20.0		25.5				
Max Q Clear Time (g_c+I1), s		9.6		2.6		8.7		18.7				
Green Ext Time (p_c), s		1.8		0.1		1.5		1.1				

Intersection Summary												
HCM 6th Ctrl Delay			12.9									
HCM 6th LOS			B									

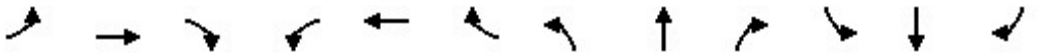
Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	231	9	13	482	18	9	11	31	10	8	2
Future Vol, veh/h	16	231	9	13	482	18	9	11	31	10	8	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	120	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	243	9	14	507	19	9	12	33	11	8	2

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	526	0	0	252	0	0	832	836	248	839	821	507
Stage 1	-	-	-	-	-	-	282	282	-	535	535	-
Stage 2	-	-	-	-	-	-	550	554	-	304	286	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1041	-	-	1313	-	-	288	303	791	285	309	566
Stage 1	-	-	-	-	-	-	725	678	-	529	524	-
Stage 2	-	-	-	-	-	-	519	514	-	705	675	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1041	-	-	1313	-	-	274	293	791	258	298	566
Mov Cap-2 Maneuver	-	-	-	-	-	-	274	293	-	258	298	-
Stage 1	-	-	-	-	-	-	711	665	-	519	516	-
Stage 2	-	-	-	-	-	-	501	506	-	652	662	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	0.2	13.8	18.4
HCM LOS			B	C

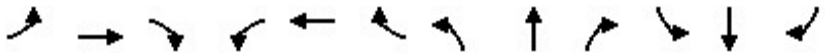
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	465	1041	-	-	1313	-	-	289
HCM Lane V/C Ratio	0.115	0.016	-	-	0.01	-	-	0.073
HCM Control Delay (s)	13.8	8.5	0	-	7.8	0	-	18.4
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0	-	-	0	-	-	0.2



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	10	180	51	299	493	71	122	423	228	61	337	20
Future Volume (veh/h)	10	180	51	299	493	71	122	423	228	61	337	20
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1870
Adj Flow Rate, veh/h	11	189	54	315	519	75	128	445	240	64	355	21
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	184	525	150	425	600	87	392	794	673	302	742	44
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.45	0.45	0.45	0.45	0.45	0.45
Sat Flow, veh/h	737	1325	379	1017	1514	219	901	1772	1502	677	1656	98
Grp Volume(v), veh/h	11	0	243	315	0	594	128	445	240	64	0	376
Grp Sat Flow(s),veh/h/ln	737	0	1704	1017	0	1733	901	1772	1502	677	0	1754
Q Serve(g_s), s	0.8	0.0	5.8	17.2	0.0	18.3	6.7	10.7	6.1	4.5	0.0	8.7
Cycle Q Clear(g_c), s	19.1	0.0	5.8	23.0	0.0	18.3	15.5	10.7	6.1	15.2	0.0	8.7
Prop In Lane	1.00		0.22	1.00		0.13	1.00		1.00	1.00		0.06
Lane Grp Cap(c), veh/h	184	0	676	425	0	687	392	794	673	302	0	786
V/C Ratio(X)	0.06	0.00	0.36	0.74	0.00	0.86	0.33	0.56	0.36	0.21	0.00	0.48
Avail Cap(c_a), veh/h	235	0	793	425	0	687	392	794	673	302	0	786
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.8	0.0	12.3	20.8	0.0	16.1	16.7	11.8	10.5	17.4	0.0	11.2
Incr Delay (d2), s/veh	0.1	0.0	0.3	6.8	0.0	11.1	2.2	2.8	1.5	1.6	0.0	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	2.0	4.7	0.0	8.3	1.5	4.2	2.0	0.8	0.0	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.0	0.0	12.6	27.6	0.0	27.2	18.9	14.6	12.0	19.0	0.0	13.3
LnGrp LOS	C	A	B	C	A	C	B	B	B	B	A	B
Approach Vol, veh/h		254			909			813			440	
Approach Delay, s/veh		13.2			27.3			14.5			14.1	
Approach LOS		B			C			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		30.5		27.5		30.5		27.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.0		27.0		18.0		23.0				
Max Q Clear Time (g_c+I1), s		17.5		21.1		17.2		25.0				
Green Ext Time (p_c), s		2.9		0.7		0.2		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			19.1									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	107	67	107	131	34	75	715	93	17	577	74
Future Volume (veh/h)	60	107	67	107	131	34	75	715	93	17	577	74
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1772
Adj Flow Rate, veh/h	63	113	71	113	138	36	79	753	0	18	607	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	351	268	168	340	356	93	477	1824		416	1824	
Arrive On Green	0.26	0.26	0.26	0.26	0.26	0.26	0.54	0.54	0.00	0.54	0.54	0.00
Sat Flow, veh/h	1083	1018	639	1073	1355	353	728	3367	1502	635	3367	1502
Grp Volume(v), veh/h	63	0	184	113	0	174	79	753	0	18	607	0
Grp Sat Flow(s),veh/h/ln	1083	0	1657	1073	0	1708	728	1683	1502	635	1683	1502
Q Serve(g_s), s	2.3	0.0	4.2	4.5	0.0	3.9	3.1	6.1	0.0	0.8	4.6	0.0
Cycle Q Clear(g_c), s	6.2	0.0	4.2	8.7	0.0	3.9	7.8	6.1	0.0	6.9	4.6	0.0
Prop In Lane	1.00		0.39	1.00		0.21	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	351	0	436	340	0	449	477	1824		416	1824	
V/C Ratio(X)	0.18	0.00	0.42	0.33	0.00	0.39	0.17	0.41		0.04	0.33	
Avail Cap(c_a), veh/h	793	0	1113	778	0	1148	477	1824		416	1824	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	16.5	0.0	14.1	17.7	0.0	13.9	8.1	6.2	0.0	8.3	5.9	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.6	0.6	0.0	0.5	0.7	0.7	0.0	0.2	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	1.4	1.0	0.0	1.3	0.5	1.6	0.0	0.1	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.7	0.0	14.7	18.3	0.0	14.5	8.8	6.9	0.0	8.5	6.4	0.0
LnGrp LOS	B	A	B	B	A	B	A	A		A	A	
Approach Vol, veh/h		247			287			832	A		625	A
Approach Delay, s/veh		15.2			16.0			7.1			6.5	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	29.5	16.6	29.5	16.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.0	31.0	25.0	31.0
Max Q Clear Time (g_c+I1), s	9.8	8.2	8.9	10.7
Green Ext Time (p_c), s	5.2	1.3	3.9	1.4

Intersection Summary	
HCM 6th Ctrl Delay	9.2
HCM 6th LOS	A

Notes

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

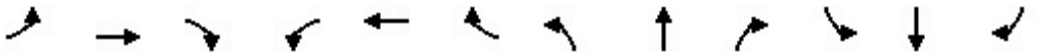
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	225	4	3	631	13	10
Future Vol, veh/h	225	4	3	631	13	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	237	4	3	664	14	11

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	241	0	909	239
Stage 1	-	-	-	-	239	-
Stage 2	-	-	-	-	670	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1326	-	305	800
Stage 1	-	-	-	-	801	-
Stage 2	-	-	-	-	509	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1326	-	304	800
Mov Cap-2 Maneuver	-	-	-	-	304	-
Stage 1	-	-	-	-	801	-
Stage 2	-	-	-	-	507	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	14.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	416	-	-	1326	-
HCM Lane V/C Ratio	0.058	-	-	0.002	-
HCM Control Delay (s)	14.2	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	376	528	2	279	4	307	5	2	20	22	22
Future Volume (veh/h)	6	376	528	2	279	4	307	5	2	20	22	22
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1772	1673	1772	1870	1870	1772	1870	1673	1772	1870
Adj Flow Rate, veh/h	6	384	539	2	285	4	313	5	2	20	22	22
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	551	871	738	358	856	12	548	359	144	540	242	242
Arrive On Green	0.49	0.49	0.49	0.49	0.49	0.49	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	975	1772	1502	542	1743	24	1362	1204	482	1260	813	813
Grp Volume(v), veh/h	6	384	539	2	0	289	313	0	7	20	0	44
Grp Sat Flow(s),veh/h/ln	975	1772	1502	542	0	1768	1362	0	1685	1260	0	1626
Q Serve(g_s), s	0.2	6.0	12.2	0.1	0.0	4.2	9.2	0.0	0.1	0.5	0.0	0.8
Cycle Q Clear(g_c), s	4.4	6.0	12.2	6.1	0.0	4.2	10.0	0.0	0.1	0.6	0.0	0.8
Prop In Lane	1.00		1.00	1.00		0.01	1.00		0.29	1.00		0.50
Lane Grp Cap(c), veh/h	551	871	738	358	0	868	548	0	502	540	0	485
V/C Ratio(X)	0.01	0.44	0.73	0.01	0.00	0.33	0.57	0.00	0.01	0.04	0.00	0.09
Avail Cap(c_a), veh/h	551	871	738	358	0	868	955	0	1005	917	0	970
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	8.0	7.1	8.6	9.0	0.0	6.6	14.4	0.0	10.6	10.8	0.0	10.8
Incr Delay (d2), s/veh	0.0	1.6	6.3	0.0	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.9	3.9	0.0	0.0	1.1	2.5	0.0	0.0	0.1	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.0	8.7	14.9	9.1	0.0	6.8	15.4	0.0	10.6	10.8	0.0	10.9
LnGrp LOS	A	A	B	A	A	A	B	A	B	B	A	B
Approach Vol, veh/h		929			291			320			64	
Approach Delay, s/veh		12.3			6.8			15.3			10.9	
Approach LOS		B			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.5		17.2		25.5		17.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		21.0		25.5		20.0		25.5				
Max Q Clear Time (g_c+I1), s		14.2		2.8		8.1		12.0				
Green Ext Time (p_c), s		2.6		0.2		1.3		0.8				

Intersection Summary												
HCM 6th Ctrl Delay			11.8									
HCM 6th LOS			B									

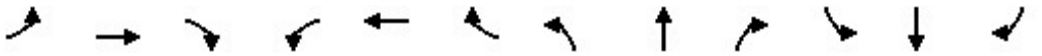
Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	528	8	30	310	9	6	10	20	18	16	12
Future Vol, veh/h	3	528	8	30	310	9	6	10	20	18	16	12
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	120	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	556	8	32	326	9	6	11	21	19	17	13

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	335	0	0	564	0	0	976	965	560	972	960	326
Stage 1	-	-	-	-	-	-	566	566	-	390	390	-
Stage 2	-	-	-	-	-	-	410	399	-	582	570	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1224	-	-	1008	-	-	230	255	528	232	257	715
Stage 1	-	-	-	-	-	-	509	507	-	634	608	-
Stage 2	-	-	-	-	-	-	619	602	-	499	505	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1224	-	-	1008	-	-	207	244	528	208	246	715
Mov Cap-2 Maneuver	-	-	-	-	-	-	207	244	-	208	246	-
Stage 1	-	-	-	-	-	-	507	505	-	631	584	-
Stage 2	-	-	-	-	-	-	567	579	-	467	503	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	0.7	17.2	21
HCM LOS			C	C

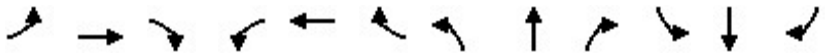
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	334	1224	-	-	1008	-	-	273
HCM Lane V/C Ratio	0.113	0.003	-	-	0.031	-	-	0.177
HCM Control Delay (s)	17.2	7.9	0	-	8.7	0	-	21
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0	-	-	0.1	-	-	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	14	549	91	124	257	104	40	462	297	114	437	11
Future Volume (veh/h)	14	549	91	124	257	104	40	462	297	114	437	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1870
Adj Flow Rate, veh/h	15	578	96	131	271	109	42	486	313	120	460	12
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	347	626	104	155	507	204	301	761	645	249	738	19
Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43
Sat Flow, veh/h	897	1482	246	684	1202	483	825	1772	1502	609	1719	45
Grp Volume(v), veh/h	15	0	674	131	0	380	42	486	313	120	0	472
Grp Sat Flow(s),veh/h/ln	897	0	1728	684	0	1685	825	1772	1502	609	0	1764
Q Serve(g_s), s	0.8	0.0	22.4	3.2	0.0	10.2	2.5	13.1	9.1	11.7	0.0	12.6
Cycle Q Clear(g_c), s	11.0	0.0	22.4	25.6	0.0	10.2	15.2	13.1	9.1	24.8	0.0	12.6
Prop In Lane	1.00		0.14	1.00		0.29	1.00		1.00	1.00		0.03
Lane Grp Cap(c), veh/h	347	0	729	155	0	711	301	761	645	249	0	757
V/C Ratio(X)	0.04	0.00	0.92	0.85	0.00	0.53	0.14	0.64	0.49	0.48	0.00	0.62
Avail Cap(c_a), veh/h	368	0	770	155	0	711	301	761	645	249	0	757
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	17.1	0.0	16.6	29.9	0.0	13.1	19.4	13.6	12.5	23.3	0.0	13.5
Incr Delay (d2), s/veh	0.1	0.0	16.3	32.9	0.0	0.8	1.0	4.1	2.6	6.6	0.0	3.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	10.9	3.2	0.0	3.5	0.5	5.4	3.1	2.0	0.0	5.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.2	0.0	32.9	62.7	0.0	13.8	20.4	17.7	15.1	29.9	0.0	17.3
LnGrp LOS	B	A	C	E	A	B	C	B	B	C	A	B
Approach Vol, veh/h		689			511			841			592	
Approach Delay, s/veh		32.6			26.4			16.8			19.9	
Approach LOS		C			C			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		30.5		30.1		30.5		30.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.0		27.0		18.0		23.0				
Max Q Clear Time (g_c+I1), s		17.2		24.4		26.8		27.6				
Green Ext Time (p_c), s		3.1		1.2		0.0		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			23.5									
HCM 6th LOS			C									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	179	68	74	97	20	70	680	104	27	571	44
Future Volume (veh/h)	80	179	68	74	97	20	70	680	104	27	571	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1673	1772	1870	1673	1772	1870	1673	1772	1772	1673	1772	1772
Adj Flow Rate, veh/h	83	186	71	77	101	21	73	708	0	28	595	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	394	326	124	291	379	79	479	1816		431	1816	
Arrive On Green	0.27	0.27	0.27	0.27	0.27	0.27	0.54	0.54	0.00	0.54	0.54	0.00
Sat Flow, veh/h	1136	1222	466	1004	1423	296	736	3367	1502	663	3367	1502
Grp Volume(v), veh/h	83	0	257	77	0	122	73	708	0	28	595	0
Grp Sat Flow(s),veh/h/ln	1136	0	1688	1004	0	1719	736	1683	1502	663	1683	1502
Q Serve(g_s), s	2.9	0.0	6.1	3.3	0.0	2.6	2.9	5.7	0.0	1.2	4.6	0.0
Cycle Q Clear(g_c), s	5.5	0.0	6.1	9.4	0.0	2.6	7.4	5.7	0.0	6.9	4.6	0.0
Prop In Lane	1.00		0.28	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	394	0	450	291	0	458	479	1816		431	1816	
V/C Ratio(X)	0.21	0.00	0.57	0.26	0.00	0.27	0.15	0.39		0.06	0.33	
Avail Cap(c_a), veh/h	851	0	1129	695	0	1149	479	1816		431	1816	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	15.6	0.0	14.7	18.8	0.0	13.4	8.1	6.2	0.0	8.2	6.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	1.1	0.5	0.0	0.3	0.7	0.6	0.0	0.3	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	2.1	0.7	0.0	0.9	0.4	1.5	0.0	0.2	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.8	0.0	15.9	19.3	0.0	13.7	8.7	6.9	0.0	8.5	6.5	0.0
LnGrp LOS	B	A	B	B	A	B	A	A		A	A	
Approach Vol, veh/h		340			199			781	A		623	A
Approach Delay, s/veh		15.9			15.9			7.0			6.6	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	29.5	16.9	29.5	16.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.0	31.0	25.0	31.0
Max Q Clear Time (g_c+I1), s	9.4	8.1	8.9	11.4
Green Ext Time (p_c), s	4.9	1.9	3.9	0.9

Intersection Summary	
HCM 6th Ctrl Delay	9.3
HCM 6th LOS	A

Notes

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	645	13	10	293	7	6
Future Vol, veh/h	645	13	10	293	7	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	679	14	11	308	7	6

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	693	0	1016	686
Stage 1	-	-	-	-	686	-
Stage 2	-	-	-	-	330	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	902	-	264	447
Stage 1	-	-	-	-	500	-
Stage 2	-	-	-	-	728	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	902	-	260	447
Mov Cap-2 Maneuver	-	-	-	-	260	-
Stage 1	-	-	-	-	500	-
Stage 2	-	-	-	-	717	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.3	16.7
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	322	-	-	902	-
HCM Lane V/C Ratio	0.042	-	-	0.012	-
HCM Control Delay (s)	16.7	-	-	9	0
HCM Lane LOS	C	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

D – Vehicle Miles Traveled Memorandum

MEMORANDUM

To: City of Upland
Public Works Transportation Division

From: Jon Collins, PE
Kimley-Horn and Associates, Inc.

Date: September 21, 2021

Subject: Arrow 32N Residential Project – CEQA VMT Analysis

The memorandum documents Vehicle Miles Traveled (VMT) Analysis for the proposed Arrow 32N residential project (Project) located in the City of Uptown within San Bernardino County.

Project Description

The Project would allow for the development of an approximately 65 dwelling units, 162 parking spaces, and 30,000 square feet of open space within a 4.9-acre site. The site is located within the City of Upland along E Arrow Highway, bordered by Grove Avenue (east), North 14th Avenue (south), and North 11th Avenue (west). Currently, the site is occupied by an existing lumber yard and the parcel is located in a designated Light Industrial Land Use Zone. The Project would be developed in one phase with completion expected in 2024. The Project is expected to generate 476 daily unadjusted trips, with 30 trips (7 inbound/ 23 outbound) during the a.m. peak hour and 36 trips (23 inbound / 13 outbound) during the p.m. peak hour.

Senate Bill 743 (SB 743)

SB 743, approved in 2013, mandated a change in the way transportation impacts are determined according to the California Environmental Quality Act (CEQA). The Governor's Office of Planning and Research (OPR) has directed the use of VMT as the replacement for automobile delay-based Level of Service (LOS) for the purposes of determining a significant transportation impact under CEQA. As of December 2018, the Natural Resources Agency finalized updates to CEQA Guidelines to incorporate SB 743 (i.e., VMT). To assist in the implementation of VMT as the primary measure of a transportation impact under CEQA, the OPR published an updated Technical Advisory on Evaluating Transportation Impacts in CEQA in December 2018. Statewide application of the new guidelines went into effect on July 1, 2020.

The City of Upland has adopted VMT thresholds of significance and guidance for determining the significance of transportation impacts. The analysis contained within this document is based on these guidelines.

Analysis Methodology

The City of Upland updated the *Traffic Impact Analysis Guidelines* (July 2020) (TIA Guidelines) with methodologies to determine VMT impacts. There are three types of screening that lead agencies can apply to effectively screen projects from project-level assessment. These screening steps are summarized in **Table 1**. The Project needs only to satisfy one of the potential screenings.

Table 1 – VMT Screening

Screen Type	Description
Transit Priority Area (TPA)	1. Has a Floor Area Ratio (FAR) of less than 0.75; 2. Includes more parking for use by residents, customers, or employees of the project than required by the City (if the City requires the project to supply parking); 3. Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the lead agency, with input from the Metropolitan Planning Organization); or 4. Replaces affordable residential units with a smaller number of moderate- or high-income residential units.
Low VMT Area	• Residential and office projects located within a low VMT-generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary. • A low VMT area is defined as an individual traffic analysis zone (TAZ) where total daily Origin/Destination VMT per service population is lower than the City average total daily Origin/Destination VMT per service population
Project Type	• Local serving retail buildings less than 50,000 square feet may be presumed to have a less than significant impact absent substantial evidence to the contrary. • Local serving retail generally improves the convenience of shopping close to home and has the effect of reducing vehicle travel.

Source: City of Upland Traffic Impact Analysis Guidelines (July 2020)

Transit Priority Area (TPA) Screening

The San Bernardino County Transportation Authority (SBCTA) VMT Screening Tool was used to determine if the Project is located within a TPA. **Exhibit 1** shows the Project location in the screening map, as shown, the Project location is not within a TPA.

Low Vehicle Miles Traveled (VMT) Area Screening

Residential and office projects located within a low VMT-generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary. A low VMT area is defined as an individual traffic analysis zone (TAZ) where total daily Origin/Destination VMT per service population is lower than the City average total daily Origin/Destination VMT per service population.

The San Bernardino County Transportation Authority (SBCTA) VMT Screening Tool was used to determine if the Project is located within a low VMT area. **Exhibit 1** shows the project location in the screening map, as shown, the Project is located within a low VMT generating TAZ with a total TAZ VMT of 22.9 which is 26.72% lower than the regional average.

Project Type Screening

Local serving retail buildings less than 50,000 square feet may be presumed to have a less than significant impact absent substantial evidence to the contrary. Local serving retail generally improves the convenience of shopping close to home and has the effect of reducing vehicle travel.

In addition to local serving retail, the following uses may, at the discretion of the City, be presumed to have a less than significant impact as their uses are often local serving in nature:

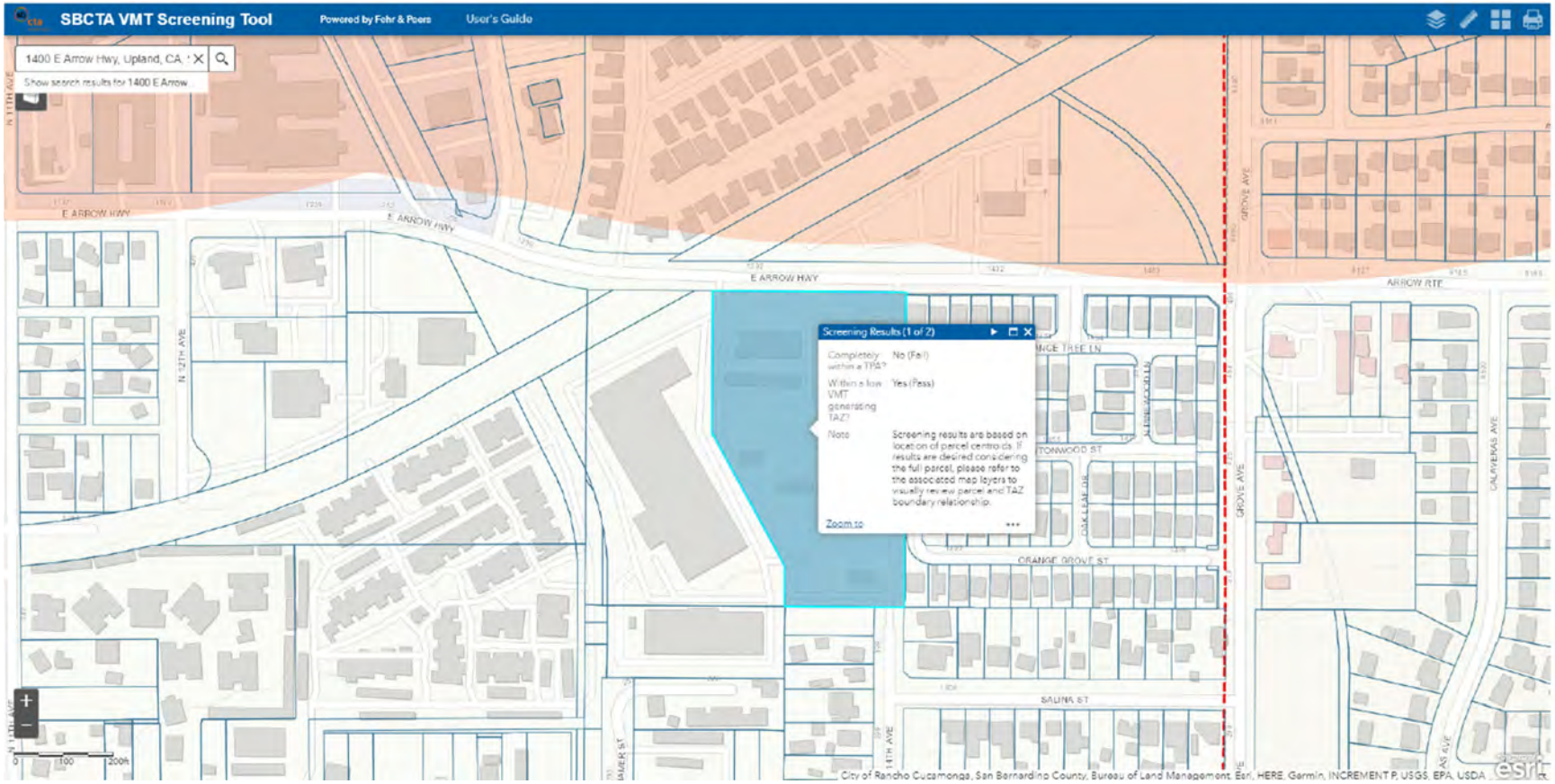
- Local parks
- Day care centers
- Local-serving retail uses less than 50,000 square feet, including:
    - Gas stations
    - Banks
    - Restaurants
    - Shopping Center
- Student housing projects on or adjacent to college campuses
- Local-serving assembly uses (places of worship, community organizations)
- Community institutions (Public libraries, fire stations, local government)
- Local serving community colleges that are consistent with the assumptions noted in the RTP/SCS
- Hotels (non-destination or resort; no banquet or special event space)
- Affordable or supportive housing
- Assisted living facilities
- Senior housing (as defined by HUD)
- Projects generating less than 250 daily vehicle trips
    - This generally corresponds to the following “typical” development potentials:
        - 26 single family housing units
        - 34 multi-family, condominiums, or townhouse housing units
        - 25,000 sq. ft. of office
        - 50,000 sq. ft. of light industrial
        - 143,000 sq. ft. of warehousing
        - 178,000 sq. ft. of high cube transload and short-term storage warehouse

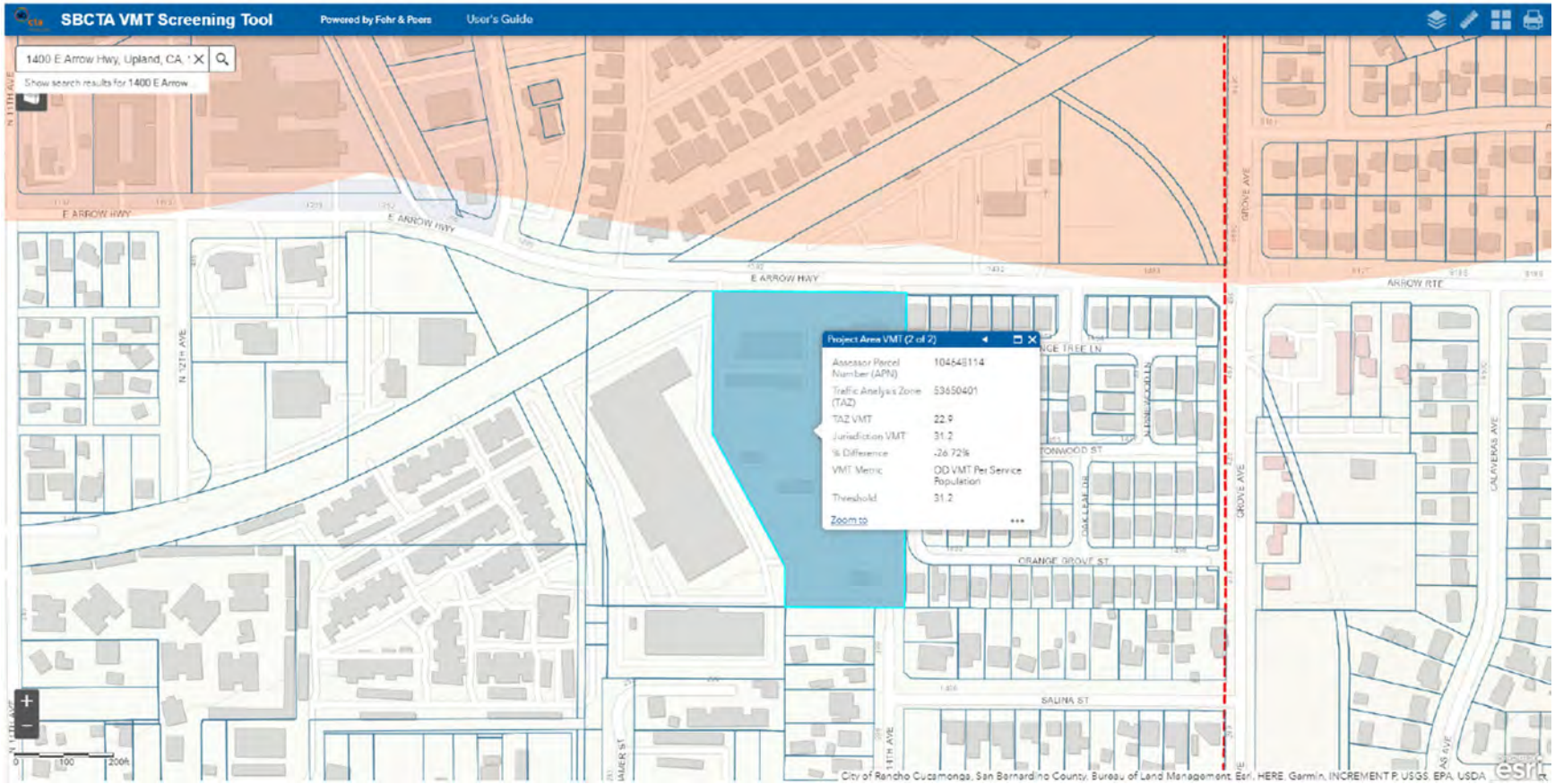
Because the Project proposes to develop 65 residential units, it exceeds the 250 daily vehicle threshold for trips generated from the site. Therefore, the Project does not satisfy the project type screening.

Conclusion

The Project’s transportation impact based on the initial VMT screening is non-significant based on City-established screening for Low VMT Area. No mitigation measures are required.

Exhibit 1: VMT Screening Map




SBCTA VMT Screening Tool
Powered by Fehr & Peers
User's Guide
1400 E Arrow Hwy, Upland, CA
Show search results for 1400 E Arrow...
E ARROW HWY
N 12TH AVE
N 11TH AVE
GROVE AVE
ARROW RTE
ORANGE GROVE ST
SALINA ST
CALAVERAS AVE
Project Area VMT (2 of 2)
Assessor Parcel Number (APN) 1046481114
Traffic Analysis Zone (TAZ) 53650401
TAZ VMT 22.9
Jurisdiction VMT 31.2
% Difference -26.72%
VMT Metric OD VMT Per Service Population
Threshold 31.2
Zoom to
City of Rancho Cucamonga, San Bernardino County, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA
esri